

# SAFETY DATA SHEET

Issuing Date 22-Jan-2016

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Revision Number 3



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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Epsom Salt With Eucalyptus

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Bath Fragrances, Softeners or Salts

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name PL Developments,LLC

Supplier Address 1874 Hwy 72 West  
Clinton SC 29325

US

Supplier Phone Number Phone:864-833-0178

Supplier Email KGASTON@PLDEVELOPMENTS.COM

Emergency telephone number

Company Emergency Phone Number 864-833-0178

## 2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Label elements, including precautionary statements

Emergency Overview





The product contains no substances which at their given concentration, are considered to be hazardous to health.

**Appearance** White

**Physical state** Crystalline Solid

**Odor** Characteristic

**Precautionary Statements - Prevention**

None

**Precautionary Statements - Response**

None

**Precautionary Statements - Storage**

None

**Precautionary Statements - Disposal**

None

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**

0 % of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

May cause slight eye irritation

**Interactions with Other Chemicals**

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health

### 4. FIRST AID MEASURES

**First aid measures**

<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
<b>Skin contact</b>	Wash with soap and water.
<b>Inhalation</b>	Remove to fresh air.
<b>Ingestion</b>	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed**





**Most Important Symptoms and Effects** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**

CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**

No information available.

**Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with eyes.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

**Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.





**7. HANDLING AND STORAGE**

Precautions for safe handling

**Handling** Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Protect from moisture. Store locked up. Store away from other materials.

**Incompatible Products** None known based on information supplied.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

Individual protection measures, such as personal protective equipment

**Eye/face protection** No special protective equipment required.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical and Chemical Properties

<b>Physical state</b>	Crystalline, Solid	<b>Odor</b>	Characteristic
<b>Appearance</b>	White	<b>Odor Threshold</b>	No information available
<b>Color</b>	No information available		

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH	No data available	None known	
Melting / freezing point	No data available	None known	
Boiling point / boiling range	No data available	None known	
Flash Point	No data available	None known	
Evaporation Rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	





<b>Flammability Limit in Air</b>		
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	No data available	None known
Water Solubility	Soluble in water	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No data available	
Oxidizing properties	No data available	

#### Other Information

Softening Point	No data available
VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribution	

## 10. STABILITY AND REACTIVITY

#### Reactivity

No data available.

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

None under normal processing.

#### Conditions to avoid

None known based on information supplied.

#### Incompatible materials

None known based on information supplied.

#### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

##### Product Information

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

**Component Information**                      No information available

#### Information on toxicological effects





<b>Symptoms</b>	No information available.
<b><u>Delayed and immediate effects as well as chronic effects from short and long-term exposure</u></b>	
<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenicity</b>	Contains no ingredient listed as a carcinogen.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Target Organ Effects</b>	None known.
<b>Aspiration Hazard</b>	No information available.

**Numerical measures of toxicity Product Information**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)  
503.00 mg/kg  
ATEmix (dermal)  
1,106.00 mg/kg (ATE)  
ATEmix (inhalation-dust/mist)  
1.50 mg/l

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

The environmental impact of this product has not been fully investigated.

**Persistence and Degradability**

No information available.

**Bioaccumulation**

No information available

**Other adverse effects**

No information available.





### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

#### Disposal methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

#### Contaminated Packaging

Dispose of contents/containers in accordance with local regulations.

### 14. TRANSPORT INFORMATION

<u>DOT</u>	NOT REGULATED
Proper Shipping Name	NON REGULATED
Hazard Class	N/A

<u>TDG</u>	Not regulated
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<u>MEX</u>	Not regulated
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<u>ICAO</u>	Not regulated
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<u>IATA</u>	Not regulated
Proper Shipping Name	NON REGULATED
Hazard Class	N/A

<u>IMDG/IMO</u>	Not regulated
Hazard Class	N/A

<u>RID</u>	Not regulated
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<u>ADR</u>	Not regulated
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<u>ADN</u>	Not regulated
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### 15. REGULATORY INFORMATION

#### International Inventories

TSCA	Complies
DSL	All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

#### US Federal Regulations

**SARA 313**  
 Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372





**SARA 311/312 Hazard Categories**

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated by state right-to-know regulations.

**International Regulations**

Canada  
WHMIS Hazard Class  
Not determined

**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazards</b> 1	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Physical and Chemical Hazards - Personal Protection</b> X
<b>HMIS</b>	<b>Health Hazards</b> 1	<b>Flammability</b> 0	<b>Physical Hazard</b> 0	

**Prepared By** Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

**Issuing Date** 22-Jan-2016  
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**Revision Note** No information available

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of Safety Data Sheet**



# SAFETY DATA SHEET

Issuing Date No data available

Revision Date 24-Aug-2015

Revision Number 1



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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

Product Name Epsom Salt Lavender, Magnesium Sulfate, U.S.P.

### Other means of identification

Synonyms Magnesium Sulfate Heptahydrate, Epsom Salts

### Recommended use of the chemical and restrictions on use

Recommended Use Bath Soak

Uses advised against No information available

### Details of the supplier of the safety data sheet

Supplier Name PL Developments  
 Supplier Address 28966 Hwy 76 East  
 Clinton  
 SC  
 29325  
 US  
 Supplier Phone Number Phone: (864) 833-1078  
 Supplier Email KGaston@pldevelopments.com  
Emergency telephone number

## 2. HAZARDS IDENTIFICATION

### Classification

White or transparent crystalline powder. Noncombustible. At very high temperatures, magnesium oxide, sulfur dioxide, and sulfur trioxide may be generated. This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### GHS Label elements, including precautionary statements

Not a dangerous substance or mixture according to the Globally Harmonized Systems (GHS)





### Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Appearance** Granular to fine granular      **Physical State** Solid      **Odor** Lavender

#### Precautionary Statements - Prevention

Causes mild irritation to the eyes  
No Known adverse effects  
Spilled material can be slippery

#### Precautionary Statements - Response

None

#### Precautionary Statements - Storage

None

#### Precautionary Statements - Disposal

None

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Unknown Toxicity

100% of the mixture consists of ingredient(s) of unknown toxicity

#### Other information

May cause slight eye irritation

#### Interactions with Other Chemicals

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

### 4. FIRST AID MEASURES

#### First aid measures

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
<b>Skin Contact</b>	Not Applicable.
<b>Inhalation</b>	Remove to fresh air. Administer oxygen if breathing is difficult. If breathing has stopped, give artificial respiration. Get medical attention immediately.





**Ingestion** If large quantities of this material are swallowed, call a physician immediately. Do NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms and Effects** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**  
This material is compatible with all extinguishing media.

**Unsuitable extinguishing media**  
None.

**Specific Hazards Arising from the Chemical**  
See section 2 for information on hazards when this material is present in the area of fire.

**Hazardous Combustion Products**  
Carbon oxides.

**Explosion Data**  
**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**  
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.





## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions**                      Avoid contact with eyes.

### Environmental Precautions

**Environmental Precautions**                      Sinks and mixes with water. No adverse effects known.

### Methods and material for containment and cleaning up

**Methods for Containment**                      Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**                      Sweep, scoop or vacuum discharged material. Flush residue with water.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling**    Avoid breathing dust. Promptly clean up spills.

### Conditions for safe storage, including any incompatibilities

**Storage**    Keep container tightly closed and protected from extremes of temperature and humidity during storage. Recommended storage conditions 68-110°F and 54-87% relative humidity.

**Incompatible Products**                      Metal hydrides and other water reactive materials.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Guidelines**                      This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

### Appropriate engineering controls

**Engineering Measures**                      Showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection**                      Wear chemical goggles.

**Skin and Body Protection**                      Wear gloves if abrasion or irritation occurs.





**Respiratory Protection** Provide workers with NIOSH approved respirators in accordance with requirements of 29 CFR 1910. 134 for level of exposure incurred.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

<b>Physical State</b>	Solid	<b>Odor</b>	Lavender
<b>Appearance</b>	Granular to fine granular	<b>Odor Threshold</b>	No information available
<b>Color</b>	White or transparent		

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH	Approx. 6-7	None known	
Melting / freezing point	No data available	None known	
Boiling point / boiling range	No data available	None known	
Flash Point	No data available	None known	
Evaporation Rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limit in Air			
Upper flammability limit	No data available		
Lower flammability limit	No data available		
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Specific Gravity	1.76g/cm <sup>3</sup>	None known	
Water Solubility	71g/100ml at 20C 91g/100ml at 40°C		
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/water	No data available	None known	
Autoignition temperature	No data available	None known	
Decomposition temperature	No data available	None known	
Kinematic viscosity	No data available	None known	
Dynamic viscosity	No data available	None known	
Explosive properties	No data available		
Oxidizing Properties	No data available		

### Other Information

<b>Softening Point</b>	No data available
<b>VOC Content (%)</b>	No data available
<b>Density</b>	No data available
<b>Bulk Density</b>	60-70 lb/ft <sup>3</sup>







<b>Carcinogenicity</b>	No information available.
<b>Reproductive Toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Chronic Toxicity</b>	No known effect based on information supplied.
<b>Target Organ Effects</b>	None known.
<b>Aspiration Hazard</b>	No information available.

**Numerical measures of toxicity** **Product Information**

**Unknown Acute Toxicity** 100% of the mixture consists of ingredient(s) of unknown toxicity

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

This material is not persistent in aquatic systems.

**Persistence and Degradability**

No information available.

**Bioaccumulation**

No information available

**Other adverse effects**

No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Disposal methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging**

Dispose of contents/containers in accordance with local regulations. Do not reuse container.

## 14. TRANSPORT INFORMATION





<u>DOT</u>	Not regulated by DOT as a hazardous material. No hazard class, label or placard required, no UN or NA number assigned.
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated
<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated
<u>ADN</u>	Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

TSCA	Complies
DSL/NDL	Complies
EINECS/ELINCS	Does not comply
ENCS	Complies
IECSC	Complies
KECL	Does not comply
PICCS	Complies
AICS	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substance/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)





**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated by state right-to-know regulations.

**International Regulations**

Canada  
WHMIS Hazard Class  
Non-controlled

**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazards</b>	1	<b>Flammability</b>	0	<b>Instability</b>	0	<b>Physical and Chemical Hazards</b>	-
<b>HMIS</b>	<b>Health Hazards</b>	1	<b>Flammability</b>	0	<b>Physical Hazard</b>	0	<b>Personal Protection</b>	X

**Prepared By** PL Developments  
609-2 Cantiague Rock Rd  
Westbury, NY  
11590  
516-986-1700

**Revision Date** 24-Aug-2015

**Revision Note** No information available

**Disclaimer**  
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**End of Safety Data Sheet**

**Section 1 Identification**

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**Aldon  
Corporation**

221 Rochester Street  
Avon, NY 14414  
(585) 226-6177

**CHEMTREC 24 Hour Emergency  
Phone Number (800) 424-9300**  
For laboratory and industrial use only.  
Not for drug, food or household use.

**Product** METHYLENE BLUE CHLORIDE, 0.1% AQUEOUS SOLUTION

**Synonyms** Methylene Blue Chloride, Water Solution

**Section 2 Hazards identification**

**Signal word:** WARNING

**Pictograms:** None assigned

**Target organs:** None known

**GHS Classification:**

Acute toxicity, oral (Category 5)

**GHS Label information:**

**Hazard statement(s):**

H303: May be harmful if swallowed.

**Precautionary statement(s):**

P312: Call a POISON CENTER or doctor if you feel unwell.

**Hazards not otherwise classified:**

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

**Section 3 Composition / information on ingredients**

Chemical Name	CAS #	%	EINECS
Water	7732-18-5	99.7%	231-791-2
Sodium benzoate, as preservative	532-32-1	0.2%	208-534-8
Methylene blue chloride	61-73-4	0.1%	200-515-2

**Section 4 First aid measures**

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** MAY CAUSE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

**Section 5 Fire fighting measures**

**Suitable Extinguishing Media:** Use any media suitable for extinguishing supporting fire.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Section 6 Accidental release measures**

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.





# SAFETY DATA SHEET

## 1. Product and Company Identification

**Product Identifier** Iodized Salt

**Other means of identification  
Synonyms** Superior Iodized Table Salt  
Private Label Brand Iodized Table Salt  
Superior TX-10 Iodized Salt

**Recommended Use** Food applications

**Recommended Restrictions** None Known

**Manufacturer** US Salt LLC  
3580 Salt Point Road  
Watkins Glen, NY 14891  
Phone: 607-535-2721

**Emergency Telephone Number** CHEMTREC (800) 424-9300

## 2. Hazard(s) Identification

**Physical Hazards** Not Classified

**Health Hazards** Not Classified

**Environmental Hazards** Not Classified

**OSHA Defined Hazards** Not Classified

**Label Elements**

**Hazard Symbol** None

**Signal Word** None

**Hazard Statement** The product does not meet the criteria for classification

**Precautionary Statement**

**Prevention** Observe good industrial hygiene practices

**Response** Wash hands after handling

**Storage** Store away from incompatible materials

**Disposal** Dispose of waste and residues in accordance with local authority requirements

**Hazard(s) not otherwise  
Classified (HNOC)** None Known

## 3. Composition / Information on Ingredients

### Salt and/or Salt Mixtures

Chemical Name	CAS #	%
Sodium Chloride	7647-14-5	99.0-99.7
Sodium Silicoaluminate	1344-00-9	< 0.70
Dextrose	50-99-7	0.02-0.03
Sodium Bicarbonate	144-55-8	0.00-0.01
Potassium Iodide	7681-11-0	0.006-0.010
Sodium Ferrocyanide	13601-19-9	0.00-0.0013

GRAS Substance (Generally Recognized as Safe)

## 4. First Aid Measures

**Inhalation** Avoid breathing dust. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

**Skin Contact** Wash skin with soap and water. Get medical attention if irritation develops and persists.

**Eye Contact** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Give one or two glasses of water if person is alert and able to swallow. Get medical attention if symptoms occur.

**Most important  
symptoms/effects, acute and  
delayed** Direct contact with eyes may cause temporary irritation.

**Indication of immediate  
medical attention and special  
Treatment needed** Treat symptomatically

## 5. Fire Fighting Measures

<b>Suitable extinguishing media</b>	Salt and salt mixtures are non-combustible
<b>Unsuitable extinguishing media</b>	Not Applicable
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Use appropriate firefighting PPE as a general precaution.
<b>Fire-fighting equipment/instructions</b>	Salt is not combustible and is thus not the material of concern for firefighting equipment or methods.
<b>Specific methods</b>	In the event of a fire, equipment and methods that are consistent with the combusting material should be used.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

## 6. Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Avoid generation and spreading of dust. Avoid inhalation of dust and contact with skin and eyes. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Stop the flow of material, if this is without risk. If sweeping of a contaminated area is necessary, use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Avoid release to the environment. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid discharge into storm drains or sanitary sewers, groundwater or soil.

## 7. Handling and Storage

<b>Precautions for safe handling</b>	Use work methods which minimize dust production. Provide appropriate exhaust ventilation at places where dust is formed. Avoid inhalation of dust and contact with skin and eyes. Wash thoroughly after handling. Keep away from strong acids. Practice good housekeeping.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in closed original container in a dry place. Store away from incompatible materials (see section 10 of the SDS). Becomes hygroscopic at 70-75% relative humidity. Avoid humid or wet conditions as product will cake and become hard.

## 8. Exposure Controls / Personal Protection

**Occupational exposure limits** No exposures limits noted for ingredient(s).

### **US. ACGIH Threshold Limit Values**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Potassium Iodide (CAS 7681-11-0)	TWA	0.01 ppm	Inhalable Form and vapor
Sodium Silicoaluminate (CAS 1344-00-9)	TWA	1 mg/m <sup>3</sup>	Respirable Fraction

### **US. NIOSH Pocket Guide to Chemical Hazards**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Sodium Silicoaluminate	TWA	2 mg/m <sup>3</sup>

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls** TWA PEL: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, OSHA (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 5mg/cu.m. Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total Dust 8-Hour TWA PEL.

TWA TLV: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): 10mg/cu.m. Inhalable Particulate 8-Hours TWA TLV, 3mg/cu.m. Respirable Particulate TWA TLV.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

## Individual protection measures, such as personal protective equipment

<b>Eye/face protection</b>	Wear safety glasses with side shields. Wear a full-face respirator, if needed.
<b>Skin protection</b>	
<b>Hand protection</b>	If there is constant skin contact, rubber gloves are recommended.
<b>Other</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and Chemical Properties

<b>Appearance</b>	White crystalline solid
<b>Physical State</b>	Solid
<b>Form</b>	Crystalline Solid
<b>Color</b>	White
<b>Odor</b>	Halogen odor
<b>Odor Threshold</b>	Not applicable
<b>pH in aqueous solution</b>	4-9
<b>Melting point/freezing point</b>	1473.8 °F (801 °C)
<b>Initial boiling point and boiling range</b>	2669 °F (1465 °C) (760 mm Hg)
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit – lower (%)</b>	Not applicable
<b>Flammability limit – upper (%)</b>	Not applicable
<b>Explosive limit – lower (%)</b>	Not applicable
<b>Explosive limit – upper (%)</b>	Not applicable
<b>Vapor pressure</b>	2.4 mm Hg (1376.6 °F (747 °C))
<b>Vapor density</b>	Not applicable
<b>Relative density</b>	2.16 (H <sub>2</sub> O = 1)
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	26.4%
<b>Partition coefficient (n-octanol/water)</b>	Not applicable
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	Not applicable
<b>Viscosity</b>	Not applicable
<b>Other information</b>	
<b>Bulk density</b>	53 – 83 lb/ft <sup>3</sup>
<b>Molecular formula</b>	NaCl, 14SiO <sub>2</sub> ·Al <sub>2</sub> O <sub>3</sub> ·Na <sub>2</sub> ·3H <sub>2</sub> O, NaHCO <sub>3</sub> , KI, Na <sub>4</sub> Fe(CN) <sub>6</sub> ·10H <sub>2</sub> O
<b>Molecular weight</b>	58.44, 1059.3, 84.0, 166.02, 484.06

## 10. Stability and Reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials, i.e. strong oxidizing agents.
<b>Incompatible materials</b>	Strong oxidizing agents, strong acids. Becomes corrosive to metals when wet.
<b>Hazardous decomposition products</b>	Chlorine gas, hydrogen chloride, oxides of sodium.

## 11. Toxicological Information

### Information on likely routes of exposure

<b>Ingestion</b>	Expected to be low ingestion hazard
<b>Inhalation</b>	High concentrations of dust may irritate throat and respiratory system and cause coughing.
<b>Skin contact</b>	Dust may irritate skin. May cause irritation through mechanical abrasion.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.

**Symptoms related to the physical, chemical and toxicological characteristics**  
Dust may cause eye, skin and respiratory tract irritation. Exposed individuals may experience eye tearing, redness and discomfort.

### Information on toxicological effects

**Acute toxicity**  
In some cases of confirmed hypertension, ingestion may result in elevated blood pressure. Ingestion of large amounts (greater than 0.1 pound) can cause gastrointestinal upset and irritation of the stomach. Rare cases of over exposure can lead to systemic toxicity related to the binding of ionized blood calcium.

<b>Product</b>	<b>Species</b>	<b>Test Results</b>
Sodium Chloride (CAS 7647-14-5)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Mouse	4000 mg/kg
	Rat	3000 mg/kg
<i>Other</i>		
LD50	Mouse	2602 mg/kg
Sodium Silicoaluminate (CAS 1344-00-9)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg, 24 hours
<i>Inhalation</i>		
	Rat	> 2.08 mg/l, 4 hours
Dextrose (CAS		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	25,800 mg/kg
Potassium Iodide		
<b>Acute</b>		
<i>Oral</i>		
LD50		500-5000 mg/kg
	Mouse	1000 mg/kg
	Rat	4340 mg/kg
<i>Other</i>		
LD50	Mouse	430 mg/kg
	Rat	> 285 mg/kg

Product	Species	Test Results
Sodium Bicarbonate (CAS 144-55-8)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	> 4000 mg/kg
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation	
<b>Serious eye damage/eye irritation</b>	Dust in the eyes will cause irritation	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not available	
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization	
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic	
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA	
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Specific target organ toxicity - single exposure</b>	Not classified	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified	
<b>Aspiration Hazard</b>	Due to the physical form of the product, it is not considered an aspiration hazard.	

## 12. Ecological Information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Sodium Chloride (CAS 7647-14-5)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia magna) 340.7 – 469.2 mg/l, 48 hours
Fish	LC50	Rainbow trout, Donaldson trout (Oncorhynchus mykiss) 4747 – 7824 mg/l, 96 hours
Sodium Aluminosilicate (CAS 1344-00-9)		
<b>Aquatic</b>		
Fish	LC50	Guppy (Poecilia reticulata) 1800 – 3200 mg/l, 96 hours
Potassium Iodide (CAS 7681-11-0)		
<b>Aquatic</b>		
Fish	LC50	Rainbow trout, Donaldson trout (Oncorhynchus mykiss) 896 mg/l, 96 hours
Sodium Bicarbonate (CAS 144-55-8)		
<b>Aquatic</b>		
Crustacea	EC50	Daphnia 2350 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus) 8600 mg/l, 96 hours
<b>Persistence and degradability</b>	No data is available on the degradability of this product	
<b>Bioaccumulative potential</b>	No data available	
Partition coefficient n-octanol/water (log Kow)		
Dextrose (CAS 50-99-7)	-3.24	
<b>Mobility in soil</b>	No data available	
<b>Mobility in general</b>	No data available	
<b>Other Adverse effects</b>	None known	

### **13. Disposal Considerations**

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal Instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since Emptied containers may retain product residue, follow label warnings even after container is emptied.

### **14. Transport Information**

#### **U.S. Department of Transportation (DOT)**

Not regulated as dangerous goods.

#### **Transportation of Dangerous Goods (TDG – Canada)**

Not regulated as dangerous goods.

#### **IATA**

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not Applicable

### **15. Regulatory Information**

#### **US Federal Regulations**

All components are on the U.S. EPA TSCA Inventory List  
This product is not known to be a "hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated

#### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed

#### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated

#### **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPS) List**

Not regulated

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<b>Hazard Categories</b>	Immediate Hazard – No Delayed Hazard – No Fire Hazard – No Pressure Hazard – No Reactivity Hazard – No
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<b>SARA 302 Extremely Hazardous Substance</b>	No
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<b>SARA 311/312 Hazardous Chemical</b>	No
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<b>SARA 313 (TRI reporting)</b>	Not regulated
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#### **Other federal regulations**

<b>Safe Drinking Water Act (SDWA)</b>	Not regulated
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## US state regulations

### US Massachusetts RTK – Substance List

Not regulated

### US New Jersey Worker and Community Right-to Know Act

Not listed

### US Pennsylvania Worker and Community Right-to-Know Law

Sodium Silicoaluminate (CAS 1344-00-9)

### US Rhode Island RTK

Not regulated

### US California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### US – California Proposition 65 – Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

## International Inventories

<u>Country(s) or region</u>	<u>Inventory name</u>	<u>On inventory (Yes/No)*</u>
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ENCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or are exempt from listing on the inventory administered by the governing country(s)

## 16. Other Information, including date of preparation or last revision

<b>Issue Date</b>	01-March-2015
<b>Revision Date</b>	-
<b>Version #</b>	01

### Legend

Severe	4	<b>HMIS Ratings</b>	Health	1
Serious	3		Flammability	0
Moderate	2		Physical Hazard	0
Slight	1		Personal protection	A
Minimal	0	<b>NFPA Ratings</b>	Health	1
			Flammability	0
			Reactivity	0

### **Disclaimer**

The information contained herein was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the manufacturer's control, it is the users responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies may have specific regulations concerning the transportation, handling storage, use or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.

**1020 - Blue Liquid Color**  
**Safety Data Sheet**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/05/2015    Version: 1

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Product name : 1020 – Blue Liquid Color  
Product form : Mixture

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/mixture : Food industry: component

**1.3. Details of the supplier of the safety data sheet**

LorAnn Oils, Inc.  
4518 Aurelius Road  
Lansing, MI 48910  
Telephone: 1.800.862.8620

**1.4. Emergency telephone number**

Emergency number : CHEMTREC: Within USA and Canada: 1.800.424.9300 Outside USA and Canada: +1 703 527 3887

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

Classification (GHS-US)  
Not classified

**2.2. Label elements**

GHS-US labeling  
No labeling applicable

**2.3. Other hazards**

No additional information available

**2.4. Unknown acute toxicity (GHS-US)**

Not applicable

**SECTION 3: Composition/information on ingredients**

**3.1. Substance**

Not applicable

**3.2. Mixture**

\*The specific chemical identities of the ingredients in this mixture, as well as, exact concentrations of any hazardous ingredients stated above, are considered trade secrets. This information is withheld in accordance with the provisions of 1910.1200 of the Code of Federal Regulations.

Full text of H-phrases: see section 16

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).  
First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.  
First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

#### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

1020 – Blue Liquid Color	
ACGIH	Not applicable
OSHA	Not applicable

### 8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear eye protection and protective gloves. protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Refer to specification sheet
Odor	: characteristic
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 200 °F
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.017
Solubility	: Miscible with water. Water: N/A
Log Pow	: No data available
Log K <sub>ow</sub>	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

**10.2. Chemical stability**

Not established.

**10.3. Possibility of hazardous reactions**

Not established.

**10.4. Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

**10.5. Incompatible materials**

Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

fume. Carbon monoxide. Carbon dioxide.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Acute toxicity : Not classified

<b>Proprietary Flavor Ingredient - p322</b>	
LD50 oral rat	20000 mg/kg (Rat; Experimental value)
LD50 dermal rat	22500 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	20800 mg/kg (Rabbit; Experimental value)
ATE US (oral)	20000.000 mg/kg body weight
ATE US (dermal)	20800.000 mg/kg body weight

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

**12.1. Toxicity**

No additional information available

**12.2. Persistence and degradability**

<b>1020 - Blue Liquid Color</b>	
Persistence and degradability	Not established.

**12.3. Bioaccumulative potential**

<b>1020 - Blue Liquid Color</b>	
Bioaccumulative potential	Not established.

**12.4. Mobility in soil**

No additional information available

## 12.5. Other adverse effects

Effect on ozone layer :  
Effect on the global warming : No known ecological damage caused by this product.  
Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT  
Not regulated for transport  
**Additional information**  
Other information : No supplementary information available.

### ADR

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Proprietary Flavor Ingredient - p322

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

#### 15.2.2. National regulations

### 15.3. US State regulations

#### Proprietary Flavor Ingredient - p322

U.S. - New Jersey - Right to Know Hazardous Substance List

## SECTION 16: Other information

### Other information

: **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.



MATERIAL SAFETY DATA SHEET

001 0013579

FOR: GORDON FOOD SERVICE

FOR CHEMICAL EMERGENCY  
SPILL LEAK FIRE EXPOSURE OR ACCIDENT  
CALL CHEMTREC DAY OR NIGHT

DOMESTIC NORTH AMERICA 800-424-9300  
INTERNATIONAL, CALL 703-527-3887 (COLLECT CALLS ACCEPTED)

MATERIAL ID: 23.1331 DATE PREPARED: 2/24/10  
CUSTOMER PART#: 979992

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: GREEN COLOR W.S. (GFS# 573051)  
FORMULA : #23.1331  
CAS NUMBER :

SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

COMPONENTS	CAS NUMBER	% BY WEIGHT	OSHA PEL (ppm)	ACGIH TLV (ppm)	*NOTE*
NONE.					

SECTION III - PHYSICAL DATA

BOILING POINT: NOT AVAILABLE SPECIFIC GRAVITY: 1.01 (+/- .05)  
VAPOR PRESSURE: NOT AVAILABLE VAPOR DENSITY (AIR=1): HEAVIER  
SOLUBILITY IN WATER: SOLUBLE

APPEARANCE AND ODOR:  
AN OPAQUE DARK GREEN LIQUID HAVING NO CHARACTERISTIC FLAVOR OR ODOR.

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (TAG CLOSED CUP): >200 DEG. F.

FLAMMABLE LIMITS (% VOLUME IN AIR) LEL: NOT KNOWN UEL: NOT KNOWN

EXTINGUISHING MEDIA:  
CARBON DIOXIDE, DRY CHEMICAL OR UNIVERSAL-TYPE FOAM APPLIED ACCORDING TO  
MANUFACTURER'S TECHNIQUES. WATER SPRAY.



23.1331

PAGE 2

SPECIAL FIRE-FIGHTING PROCEDURES:  
WEAR SELF-CONTAINED BREATHING APPARATUS AND COMPLETE PERSONAL PROTECTIVE EQUIPMENT.

UNUSUAL FIRE AND/OR EXPLOSION HAZARDS:  
CLOSED CONTAINERS MAY BUILD UP AT ELEVATED TEMPERATURES. IF POSSIBLE, CONTAINERS SHOULD BE COOLED WITH A WATER SPRAY.

NFPA CODES - HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

-----  
SECTION V - REACTIVITY DATA  
-----

STABILITY:  
STABLE. AVOID HEAT, SPARKS AND OPEN FLAMES.

INCOMPATIBILITY:  
AVOID CONTACT WITH STRONG ALKALIES AND OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:  
BURNING CAN PRODUCE CARBON DIOXIDE AND/OR CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION:  
WILL NOT OCCUR.

-----  
SECTION VI - HEALTH AND HAZARD DATA / FIRST AID  
-----

-----  
EFFECTS OF OVER-EXPOSURE  
-----

EYES:  
MAY CAUSE EYE IRRITATION BY DIRECT CONTACT OR FROM FUMES.

SKIN:  
PROLONGED CONTACT MAY LEAD TO IRRITATION AND DERMATITIS.

BREATHING:  
MAY CAUSE RESPIRATORY TRACT IRRITATION.

SWALLOWING:  
HARMFUL IF SWALLOWED IN CONCENTRATED FORM. CONCENTRATED COLORING AGENT.

EMERGENCY FIRST AID PROCEDURES  
-----

EYES:  
FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, CONTACT A DOCTOR.

SKIN:  
WASH SKIN WITH SOAP AND PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE WEARING AGAIN.

BREATHING:  
REMOVE VICTIM TO FRESH AIR. IF BREATHING BECOMES DIFFICULT SEEK IMMEDIATE MEDICAL ATTENTION.

SWALLOWING:  
IF SWALLOWED, DRINK MILK OR WATER AND CONTACT A DOCTOR IMMEDIATELY.



-----  
SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE  
-----

-----  
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE  
-----

STORE IN TIGHTLY SEALED CONTAINERS IN A COOL DRY PLACE THAT IS WELL VENTILATED.

-----  
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  
-----

SMALL SPILL:

COVER WITH A NON-COMBUSTIBLE MATERIAL AND REMOVE TO AN APPROVED DISPOSAL CONTAINER. WASH AREA WITH SOAP AND WATER.

LARGE SPILL:

AVOID SOURCES OF IGNITION. CONTAIN SPILLED MATERIAL. COVER WITH A NON-COMBUSTIBLE MATERIAL AND REMOVE TO AN APPROVED DISPOSAL CONTAINER. AVOID INHALATION OF VAPORS. IF IN A CONFINED AREA, NIOSH APPROVED RESPIRATORY PROTECTION MAY BE REQUIRED. WASH AREA WITH SOAP AND WATER. DRY PRODUCTS SHOULD BE SWEEPED UP AND REMOVED TO AN APPROVED DISPOSAL CONTAINER. WASH AREA WITH SOAP AND WATER.

-----  
WASTE DISPOSAL METHOD  
-----

INCINERATE, BURY IN APPROVED MANNER OR DISPOSE OF USING ANY PROCEDURE WHICH IS IN CONFORMANCE WITH PERTINENT FEDERAL, STATE OR LOCAL REGULATIONS.

-----  
SECTION VIII - PROTECTIVE EQUIPMENT TO BE USED  
-----

RESPIRATORY PROTECTION:

IN WELL VENTILATED AREAS, RESPIRATORY PROTECTION IS NOT NORMALLY REQUIRED. IN POORLY VENTILATED AREAS USE NIOSH RESPIRATOR.

VENTILATION:

PROVIDE ADEQUATE VENTILATION USING A MECHANICAL EXHAUST FAN.

PROTECTIVE GLOVES:

CHEMICAL RESISTANT GLOVES RECOMMENDED.

EYE PROTECTION:

CHEMICAL SAFETY GOGGLES RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT:

EYE WASH STATION AND SAFETY SHOWER SHOULD BE EASILY ACCESSIBLE.

-----  
NOTE - THE INFORMATION CONTAINED HEREIN IS FURNISHED WITHOUT WARRANTY OF ANY KIND. EMPLOYERS SHOULD USE THIS INFORMATION ONLY AS A SUPPLEMENT TO OTHER INFORMATION GATHERED BY THEM AND MUST MAKE INDEPENDENT DETERMINATIONS OF SUITABILITY AND COMPLETENESS OF INFORMATION FROM ALL SOURCES TO ASSURE PROPER USE OF THESE MATERIALS AND THE SAFETY AND HEALTH OF EMPLOYEES.  
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**1100 – Red Liquid Color**  
**Safety Data Sheet**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/05/2015 Version: 1

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Product name : 1100 – Red Liquid Color  
 Product form : Mixture

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/mixture : Food industry: component

**1.3. Details of the supplier of the safety data sheet**

LorAnn Oils, Inc.  
 4518 Aurelius Road  
 Lansing, MI 48910  
 Telephone: 1.800.862.8620

**1.4. Emergency telephone number**

Emergency number : CHEMTREC: Within USA and Canada: 1.800.424.9300 Outside USA and Canada: +1 703 527 3887

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification (GHS-US)**

Not classified

**2.2. Label elements**

**GHS-US labeling**

No labeling applicable

**2.3. Other hazards**

No additional information available

**2.4. Unknown acute toxicity (GHS-US)**

Not applicable

**SECTION 3: Composition/information on ingredients**

**3.1. Substance**

Not applicable

**3.2. Mixture**

\*The specific chemical identities of the ingredients in this mixture, as well as, exact concentrations of any hazardous ingredients stated above, are considered trade secrets. This information is withheld in accordance with the provisions of 1910.1200 of the Code of Federal Regulations.

Full text of H-phrases: see section 16

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).  
 First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.  
 First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.

#### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

1100 – Red Liquid Color	
ACGIH	Not applicable
OSHA	Not applicable

### 8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear eye protection and protective gloves. protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Refer to specification sheet
Odor	: characteristic
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 200 °F
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.02
Solubility	: Miscible with water. Water: N/A
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

**10.2. Chemical stability**

Not established.

**10.3. Possibility of hazardous reactions**

Not established.

**10.4. Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

**10.5. Incompatible materials**

Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

fume. Carbon monoxide. Carbon dioxide.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Acute toxicity : Not classified

<b>Proprietary Flavor Ingredient - p322</b>	
LD50 oral rat	20000 mg/kg (Rat; Experimental value)
LD50 dermal rat	22500 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	20800 mg/kg (Rabbit; Experimental value)
ATE US (oral)	20000.000 mg/kg body weight
ATE US (dermal)	20800.000 mg/kg body weight

Skin corrosion/irritation : Not classified  
 Serious eye damage/irritation : Not classified  
 Respiratory or skin sensitization : Not classified  
 Germ cell mutagenicity : Not classified  
 Carcinogenicity : Not classified

Reproductive toxicity : Not classified  
 Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified  
 Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

**12.1. Toxicity**

No additional information available

**12.2. Persistence and degradability**

<b>1100 – Red Liquid Color</b>	
Persistence and degradability	Not established.

**12.3. Bioaccumulative potential**

<b>1100 – Red Liquid Color</b>	
Bioaccumulative potential	Not established.

**12.4. Mobility in soil**

No additional information available

## 12.5. Other adverse effects

Effect on ozone layer :  
Effect on the global warming : No known ecological damage caused by this product.  
Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT  
Not regulated for transport

### Additional information

Other information : No supplementary information available.

### ADR

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

<b>Proprietary Flavor Ingredient - 94</b>
---

Listed on the United States TSCA (Toxic Substances Control Act) inventory
---

<b>Proprietary Flavor Ingredient - p322</b>
---

Listed on the United States TSCA (Toxic Substances Control Act) inventory
---

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

### 15.2.2. National regulations

### 15.3. US State regulations

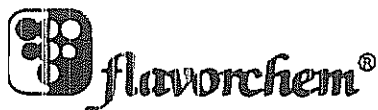
<b>Proprietary Flavor Ingredient - p322</b>
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U.S. - New Jersey - Right to Know Hazardous Substance List
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## SECTION 16: Other Information

Other information

: **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.



MATERIAL SAFETY DATA SHEET

001 0013579

FOR: GORDON FOOD SERVICE

FOR CHEMICAL EMERGENCY  
SPILL LEAK FIRE EXPOSURE OR ACCIDENT  
CALL CHEMTREC DAY OR NIGHT

DOMESTIC NORTH AMERICA 800-424-9300  
INTERNATIONAL, CALL 703-527-3887 (COLLECT CALLS ACCEPTED)

DATE PREPARED: 3/30/10  
MATERIAL ID: 23.1271 GQ CUSTOMER PART#: 111023

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: EGG SHADE GFS (QT) #23.1271 (111023)  
FORMULA : #23.1271  
CAS NUMBER :

SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

COMPONENTS	CAS NUMBER	% BY WEIGHT	OSHA PEL (ppm)	ACGIH TLV (ppm)	*NOTE*
NONE					

SECTION III - PHYSICAL DATA

BOILING POINT: NOT AVAILABLE      SPECIFIC GRAVITY: 1.01 (+/- .05)  
VAPOR PRESSURE: NOT AVAILABLE      VAPOR DENSITY (AIR=1): HEAVIER  
SOLUBILITY IN WATER: SOLUBLE

APPEARANCE AND ODOR:  
AN OPAQUE, ORANGE LIQUID HAVING NO CHARACTERISTIC FLAVOR OR ODOR.

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (TAG CLOSED CUP): >200 DEG. F.  
FLAMMABLE LIMITS (% VOLUME IN AIR)    LEL: NOT KNOWN      UEL: NOT KNOWN  
EXTINGUISHING MEDIA:  
CARBON DIOXIDE, DRY CHEMICAL OR UNIVERSAL-TYPE FOAM APPLIED ACCORDING TO  
MANUFACTURER'S TECHNIQUES. WATER SPRAY.



23.1271

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SPECIAL FIRE-FIGHTING PROCEDURES:  
WEAR SELF-CONTAINED BREATHING APPARATUS AND COMPLETE PERSONAL PROTECTIVE EQUIPMENT.

UNUSUAL FIRE AND/OR EXPLOSION HAZARDS:  
CLOSED CONTAINERS MAY BUILD UP AT ELEVATED TEMPERATURES. IF POSSIBLE, CONTAINERS SHOULD BE COOLED WITH A WATER SPRAY.

NFPA CODES - HEALTH: 1      FLAMMABILITY: 0      REACTIVITY: 0

-----  
SECTION V - REACTIVITY DATA  
-----

STABILITY:  
STABLE. AVOID HEAT, SPARKS AND OPEN FLAMES.

INCOMPATIBILITY:  
AVOID CONTACT WITH STRONG ALKALIES AND OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:  
BURNING CAN PRODUCE CARBON DIOXIDE AND/OR CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION:  
WILL NOT OCCUR.

-----  
SECTION VI - HEALTH AND HAZARD DATA / FIRST AID  
-----

EFFECTS OF OVER-EXPOSURE  
-----

EYES:  
MAY CAUSE EYE IRRITATION BY DIRECT CONTACT OR FROM FUMES.

SKIN:  
PROLONGED CONTACT MAY LEAD TO IRRITATION AND DERMATITIS.

BREATHING:  
MAY CAUSE RESPIRATORY TRACT IRRITATION.

SWALLOWING:  
HARMFUL IF SWALLOWED IN CONCENTRATED FORM.

EMERGENCY FIRST AID PROCEDURES  
-----

EYES:  
FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, CONTACT A DOCTOR.

SKIN:  
WASH SKIN WITH SOAP AND PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE WEARING AGAIN.

BREATHING:  
REMOVE VICTIM TO FRESH AIR. IF BREATHING BECOMES DIFFICULT SEEK IMMEDIATE MEDICAL ATTENTION.

SWALLOWING:  
IF SWALLOWED, DRINK MILK OR WATER AND CONTACT A DOCTOR IMMEDIATELY.



-----  
SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE  
-----

STORE IN TIGHTLY SEALED CONTAINERS IN A COOL DRY PLACE THAT IS WELL VENTILATED.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  
-----

SMALL SPILL:

COVER WITH A NON-COMBUSTIBLE MATERIAL AND REMOVE TO AN APPROVED DISPOSAL CONTAINER. WASH AREA WITH SOAP AND WATER.

LARGE SPILL:

AVOID SOURCES OF IGNITION. CONTAIN SPILLED MATERIAL. COVER WITH A NON-COMBUSTIBLE MATERIAL AND REMOVE TO AN APPROVED DISPOSAL CONTAINER. AVOID INHALATION OF VAPORS. IF IN A CONFINED AREA, NIOSH APPROVED RESPIRATORY PROTECTION MAY BE REQUIRED. WASH AREA WITH SOAP AND WATER. DRY PRODUCTS SHOULD BE SWEEPED UP AND REMOVED TO AN APPROVED DISPOSAL CONTAINER. WASH AREA WITH SOAP AND WATER.

WASTE DISPOSAL METHOD  
-----

INCINERATE, BURY IN APPROVED MANNER OR DISPOSE OF USING ANY PROCEDURE WHICH IS IN CONFORMANCE WITH PERTINENT FEDERAL, STATE OR LOCAL REGULATIONS.

-----  
SECTION VIII - PROTECTIVE EQUIPMENT TO BE USED  
-----

RESPIRATORY PROTECTION:

IN WELL VENTILATED AREAS, RESPIRATORY PROTECTION IS NOT NORMALLY REQUIRED. IN POORLY VENTILATED AREAS, USE NIOSH RESPIRATOR.

VENTILATION:

PROVIDE ADEQUATE VENTILATION USING A MECHANICAL EXHAUST FAN.

PROTECTIVE GLOVES:

CHEMICAL RESISTANT GLOVES RECOMMENDED.

EYE PROTECTION:

CHEMICAL SAFETY GOGGLES RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT:

EYE WASH STATION AND SAFETY SHOWER SHOULD BE EASILY ACCESSIBLE.

-----  
NOTE - THE INFORMATION CONTAINED HEREIN IS FURNISHED WITHOUT WARRANTY OF ANY KIND. EMPLOYERS SHOULD USE THIS INFORMATION ONLY AS A SUPPLEMENT TO OTHER INFORMATION GATHERED BY THEM AND MUST MAKE INDEPENDENT DETERMINATIONS OF SUITABILITY AND COMPLETENESS OF INFORMATION FROM ALL SOURCES TO ASSURE PROPER USE OF THESE MATERIALS AND THE SAFETY AND HEALTH OF EMPLOYEES.  
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**1020 - Blue Liquid Color**

**Safety Data Sheet**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/05/2015      Version: 1

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Product name : 1020 – Blue Liquid Color  
Product form : Mixture

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/mixture : Food industry: component

**1.3. Details of the supplier of the safety data sheet**

LorAnn Oils, Inc.  
4518 Aurelius Road  
Lansing, MI 48910  
Telephone: 1.800.862.8620

**1.4. Emergency telephone number**

Emergency number : CHEMTREC: Within USA and Canada: 1.800.424.9300 Outside USA and Canada: +1 703 527 3887

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

Classification (GHS-US)  
Not classified

**2.2. Label elements**

GHS-US labeling  
No labeling applicable

**2.3. Other hazards**

No additional information available

**2.4. Unknown acute toxicity (GHS-US)**

Not applicable

**SECTION 3: Composition/information on ingredients**

**3.1. Substance**

Not applicable

**3.2. Mixture**

\*The specific chemical identities of the ingredients in this mixture, as well as, exact concentrations of any hazardous ingredients stated above, are considered trade secrets. This information is withheld in accordance with the provisions of 1910.1200 of the Code of Federal Regulations.

Full text of H-phrases: see section 16

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).  
First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.  
First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

#### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

1020 – Blue Liquid Color	
ACGIH	Not applicable
OSHA	Not applicable

### 8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear eye protection and protective gloves. protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Refer to specification sheet
Odor	: characteristic
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 200 °F
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.017
Solubility	: Miscible with water. Water: N/A
Log Pow	: No data available
Log K <sub>ow</sub>	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

**10.2. Chemical stability**

Not established.

**10.3. Possibility of hazardous reactions**

Not established.

**10.4. Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

**10.5. Incompatible materials**

Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

fume. Carbon monoxide. Carbon dioxide.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Acute toxicity : Not classified

<b>Proprietary Flavor Ingredient - p322</b>	
LD50 oral rat	20000 mg/kg (Rat; Experimental value)
LD50 dermal rat	22500 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	20800 mg/kg (Rabbit; Experimental value)
ATE US (oral)	20000.000 mg/kg body weight
ATE US (dermal)	20800.000 mg/kg body weight

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

**12.1. Toxicity**

No additional information available

**12.2. Persistence and degradability**

<b>1020 - Blue Liquid Color</b>	
Persistence and degradability	Not established.

**12.3. Bioaccumulative potential**

<b>1020 - Blue Liquid Color</b>	
Bioaccumulative potential	Not established.

**12.4. Mobility in soil**

No additional information available

## 12.5. Other adverse effects

Effect on ozone layer :  
Effect on the global warming : No known ecological damage caused by this product.  
Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT  
Not regulated for transport  
**Additional information**  
Other information : No supplementary information available.

### ADR

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Proprietary Flavor Ingredient - p322

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

#### 15.2.2. National regulations

### 15.3. US State regulations

#### Proprietary Flavor Ingredient - p322

U.S. - New Jersey - Right to Know Hazardous Substance List

## SECTION 16: Other information

### Other information

: **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.



MATERIAL SAFETY DATA SHEET

001 0013579

FOR: GORDON FOOD SERVICE

FOR CHEMICAL EMERGENCY  
SPILL LEAK FIRE EXPOSURE OR ACCIDENT  
CALL CHEMTREC DAY OR NIGHT

DOMESTIC NORTH AMERICA 800-424-9300  
INTERNATIONAL, CALL 703-527-3887 (COLLECT CALLS ACCEPTED)

MATERIAL ID: 23.1331 DATE PREPARED: 2/24/10  
CUSTOMER PART#: 979992

-----  
SECTION I - PRODUCT IDENTIFICATION  
-----

PRODUCT NAME: GREEN COLOR W.S. (GFS# 573051)  
FORMULA : #23.1331  
CAS NUMBER :

-----  
SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION  
-----

COMPONENTS	CAS NUMBER	% BY WEIGHT	OSHA PEL (ppm)	ACGIH TLV (ppm)	*NOTE*
NONE.					

-----  
SECTION III - PHYSICAL DATA  
-----

BOILING POINT: NOT AVAILABLE SPECIFIC GRAVITY: 1.01 (+/- .05)  
VAPOR PRESSURE: NOT AVAILABLE VAPOR DENSITY (AIR=1): HEAVIER  
SOLUBILITY IN WATER: SOLUBLE

APPEARANCE AND ODOR:  
AN OPAQUE DARK GREEN LIQUID HAVING NO CHARACTERISTIC FLAVOR OR ODOR.

-----  
SECTION IV - FIRE AND EXPLOSION DATA  
-----

FLASH POINT (TAG CLOSED CUP): >200 DEG. F.

FLAMMABLE LIMITS (% VOLUME IN AIR) LEL: NOT KNOWN UEL: NOT KNOWN

EXTINGUISHING MEDIA:  
CARBON DIOXIDE, DRY CHEMICAL OR UNIVERSAL-TYPE FOAM APPLIED ACCORDING TO  
MANUFACTURER'S TECHNIQUES. WATER SPRAY.



SPECIAL FIRE-FIGHTING PROCEDURES:  
WEAR SELF-CONTAINED BREATHING APPARATUS AND COMPLETE PERSONAL PROTECTIVE EQUIPMENT.

UNUSUAL FIRE AND/OR EXPLOSION HAZARDS:  
CLOSED CONTAINERS MAY BUILD UP AT ELEVATED TEMPERATURES. IF POSSIBLE, CONTAINERS SHOULD BE COOLED WITH A WATER SPRAY.

NFPA CODES - HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

-----  
SECTION V - REACTIVITY DATA  
-----

STABILITY:  
STABLE. AVOID HEAT, SPARKS AND OPEN FLAMES.

INCOMPATIBILITY:  
AVOID CONTACT WITH STRONG ALKALIES AND OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:  
BURNING CAN PRODUCE CARBON DIOXIDE AND/OR CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION:  
WILL NOT OCCUR.

-----  
SECTION VI - HEALTH AND HAZARD DATA / FIRST AID  
-----

-----  
EFFECTS OF OVER-EXPOSURE  
-----

EYES:  
MAY CAUSE EYE IRRITATION BY DIRECT CONTACT OR FROM FUMES.

SKIN:  
PROLONGED CONTACT MAY LEAD TO IRRITATION AND DERMATITIS.

BREATHING:  
MAY CAUSE RESPIRATORY TRACT IRRITATION.

SWALLOWING:  
HARMFUL IF SWALLOWED IN CONCENTRATED FORM. CONCENTRATED COLORING AGENT.

EMERGENCY FIRST AID PROCEDURES  
-----

EYES:  
FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, CONTACT A DOCTOR.

SKIN:  
WASH SKIN WITH SOAP AND PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE WEARING AGAIN.

BREATHING:  
REMOVE VICTIM TO FRESH AIR. IF BREATHING BECOMES DIFFICULT SEEK IMMEDIATE MEDICAL ATTENTION.

SWALLOWING:  
IF SWALLOWED, DRINK MILK OR WATER AND CONTACT A DOCTOR IMMEDIATELY.



-----  
SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE  
-----

-----  
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE  
-----

STORE IN TIGHTLY SEALED CONTAINERS IN A COOL DRY PLACE THAT IS WELL VENTILATED.

-----  
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  
-----

SMALL SPILL:

COVER WITH A NON-COMBUSTIBLE MATERIAL AND REMOVE TO AN APPROVED DISPOSAL CONTAINER. WASH AREA WITH SOAP AND WATER.

LARGE SPILL:

AVOID SOURCES OF IGNITION. CONTAIN SPILLED MATERIAL. COVER WITH A NON-COMBUSTIBLE MATERIAL AND REMOVE TO AN APPROVED DISPOSAL CONTAINER. AVOID INHALATION OF VAPORS. IF IN A CONFINED AREA, NIOSH APPROVED RESPIRATORY PROTECTION MAY BE REQUIRED. WASH AREA WITH SOAP AND WATER. DRY PRODUCTS SHOULD BE SWEEPED UP AND REMOVED TO AN APPROVED DISPOSAL CONTAINER. WASH AREA WITH SOAP AND WATER.

-----  
WASTE DISPOSAL METHOD  
-----

INCINERATE, BURY IN APPROVED MANNER OR DISPOSE OF USING ANY PROCEDURE WHICH IS IN CONFORMANCE WITH PERTINENT FEDERAL, STATE OR LOCAL REGULATIONS.

-----  
SECTION VIII - PROTECTIVE EQUIPMENT TO BE USED  
-----

RESPIRATORY PROTECTION:

IN WELL VENTILATED AREAS, RESPIRATORY PROTECTION IS NOT NORMALLY REQUIRED. IN POORLY VENTILATED AREAS USE NIOSH RESPIRATOR.

VENTILATION:

PROVIDE ADEQUATE VENTILATION USING A MECHANICAL EXHAUST FAN.

PROTECTIVE GLOVES:

CHEMICAL RESISTANT GLOVES RECOMMENDED.

EYE PROTECTION:

CHEMICAL SAFETY GOGGLES RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT:

EYE WASH STATION AND SAFETY SHOWER SHOULD BE EASILY ACCESSIBLE.

-----  
NOTE - THE INFORMATION CONTAINED HEREIN IS FURNISHED WITHOUT WARRANTY OF ANY KIND. EMPLOYERS SHOULD USE THIS INFORMATION ONLY AS A SUPPLEMENT TO OTHER INFORMATION GATHERED BY THEM AND MUST MAKE INDEPENDENT DETERMINATIONS OF SUITABILITY AND COMPLETENESS OF INFORMATION FROM ALL SOURCES TO ASSURE PROPER USE OF THESE MATERIALS AND THE SAFETY AND HEALTH OF EMPLOYEES.  
-----



- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.

#### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

1100 – Red Liquid Color	
ACGIH	Not applicable
OSHA	Not applicable

### 8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear eye protection and protective gloves. protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Refer to specification sheet
Odor	: characteristic
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 200 °F
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.02
Solubility	: Miscible with water. Water: N/A
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

**10.2. Chemical stability**

Not established.

**10.3. Possibility of hazardous reactions**

Not established.

**10.4. Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

**10.5. Incompatible materials**

Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

fume. Carbon monoxide. Carbon dioxide.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Acute toxicity : Not classified

<b>Proprietary Flavor Ingredient - p322</b>	
LD50 oral rat	20000 mg/kg (Rat; Experimental value)
LD50 dermal rat	22500 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	20800 mg/kg (Rabbit; Experimental value)
ATE US (oral)	20000.000 mg/kg body weight
ATE US (dermal)	20800.000 mg/kg body weight

Skin corrosion/irritation : Not classified  
 Serious eye damage/irritation : Not classified  
 Respiratory or skin sensitization : Not classified  
 Germ cell mutagenicity : Not classified  
 Carcinogenicity : Not classified

Reproductive toxicity : Not classified  
 Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified  
 Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

**12.1. Toxicity**

No additional information available

**12.2. Persistence and degradability**

<b>1100 – Red Liquid Color</b>	
Persistence and degradability	Not established.

**12.3. Bioaccumulative potential**

<b>1100 – Red Liquid Color</b>	
Bioaccumulative potential	Not established.

**12.4. Mobility in soil**

No additional information available

## 12.5. Other adverse effects

Effect on ozone layer :  
Effect on the global warming : No known ecological damage caused by this product.  
Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT  
Not regulated for transport

### Additional information

Other information : No supplementary information available.

### ADR

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Proprietary Flavor Ingredient - 94

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Proprietary Flavor Ingredient - p322

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

### 15.2.2. National regulations

### 15.3. US State regulations

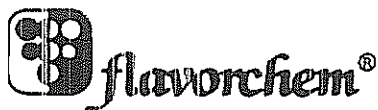
#### Proprietary Flavor Ingredient - p322

U.S. - New Jersey - Right to Know Hazardous Substance List

## SECTION 16: Other Information

Other information

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MATERIAL SAFETY DATA SHEET

001 0013579

FOR: GORDON FOOD SERVICE

FOR CHEMICAL EMERGENCY  
SPILL LEAK FIRE EXPOSURE OR ACCIDENT  
CALL CHEMTREC DAY OR NIGHT

DOMESTIC NORTH AMERICA 800-424-9300  
INTERNATIONAL, CALL 703-527-3887 (COLLECT CALLS ACCEPTED)

DATE PREPARED: 3/30/10  
MATERIAL ID: 23.1271 GQ CUSTOMER PART#: 111023

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: EGG SHADE GFS (QT) #23.1271 (111023)  
FORMULA : #23.1271  
CAS NUMBER :

SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

COMPONENTS	CAS NUMBER	% BY WEIGHT	OSHA PEL (ppm)	ACGIH TLV (ppm)	*NOTE*
NONE					

SECTION III - PHYSICAL DATA

BOILING POINT: NOT AVAILABLE      SPECIFIC GRAVITY: 1.01 (+/- .05)  
VAPOR PRESSURE: NOT AVAILABLE      VAPOR DENSITY (AIR=1): HEAVIER  
SOLUBILITY IN WATER: SOLUBLE

APPEARANCE AND ODOR:  
AN OPAQUE, ORANGE LIQUID HAVING NO CHARACTERISTIC FLAVOR OR ODOR.

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (TAG CLOSED CUP): >200 DEG. F.  
FLAMMABLE LIMITS (% VOLUME IN AIR)    LEL: NOT KNOWN      UEL: NOT KNOWN  
EXTINGUISHING MEDIA:  
CARBON DIOXIDE, DRY CHEMICAL OR UNIVERSAL-TYPE FOAM APPLIED ACCORDING TO  
MANUFACTURER'S TECHNIQUES. WATER SPRAY.



23.1271

PAGE 2

SPECIAL FIRE-FIGHTING PROCEDURES:  
WEAR SELF-CONTAINED BREATHING APPARATUS AND COMPLETE PERSONAL PROTECTIVE EQUIPMENT.

UNUSUAL FIRE AND/OR EXPLOSION HAZARDS:  
CLOSED CONTAINERS MAY BUILD UP AT ELEVATED TEMPERATURES. IF POSSIBLE, CONTAINERS SHOULD BE COOLED WITH A WATER SPRAY.

NFPA CODES - HEALTH: 1      FLAMMABILITY: 0      REACTIVITY: 0

-----  
SECTION V - REACTIVITY DATA  
-----

STABILITY:  
STABLE. AVOID HEAT, SPARKS AND OPEN FLAMES.

INCOMPATIBILITY:  
AVOID CONTACT WITH STRONG ALKALIES AND OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:  
BURNING CAN PRODUCE CARBON DIOXIDE AND/OR CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION:  
WILL NOT OCCUR.

-----  
SECTION VI - HEALTH AND HAZARD DATA / FIRST AID  
-----

EFFECTS OF OVER-EXPOSURE  
-----

EYES:  
MAY CAUSE EYE IRRITATION BY DIRECT CONTACT OR FROM FUMES.

SKIN:  
PROLONGED CONTACT MAY LEAD TO IRRITATION AND DERMATITIS.

BREATHING:  
MAY CAUSE RESPIRATORY TRACT IRRITATION.

SWALLOWING:  
HARMFUL IF SWALLOWED IN CONCENTRATED FORM.

EMERGENCY FIRST AID PROCEDURES  
-----

EYES:  
FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, CONTACT A DOCTOR.

SKIN:  
WASH SKIN WITH SOAP AND PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE WEARING AGAIN.

BREATHING:  
REMOVE VICTIM TO FRESH AIR. IF BREATHING BECOMES DIFFICULT SEEK IMMEDIATE MEDICAL ATTENTION.

SWALLOWING:  
IF SWALLOWED, DRINK MILK OR WATER AND CONTACT A DOCTOR IMMEDIATELY.



-----  
SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE  
-----

STORE IN TIGHTLY SEALED CONTAINERS IN A COOL DRY PLACE THAT IS WELL VENTILATED.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  
-----

SMALL SPILL:

COVER WITH A NON-COMBUSTIBLE MATERIAL AND REMOVE TO AN APPROVED DISPOSAL CONTAINER. WASH AREA WITH SOAP AND WATER.

LARGE SPILL:

AVOID SOURCES OF IGNITION. CONTAIN SPILLED MATERIAL. COVER WITH A NON-COMBUSTIBLE MATERIAL AND REMOVE TO AN APPROVED DISPOSAL CONTAINER. AVOID INHALATION OF VAPORS. IF IN A CONFINED AREA, NIOSH APPROVED RESPIRATORY PROTECTION MAY BE REQUIRED. WASH AREA WITH SOAP AND WATER. DRY PRODUCTS SHOULD BE SWEEPED UP AND REMOVED TO AN APPROVED DISPOSAL CONTAINER. WASH AREA WITH SOAP AND WATER.

WASTE DISPOSAL METHOD  
-----

INCINERATE, BURY IN APPROVED MANNER OR DISPOSE OF USING ANY PROCEDURE WHICH IS IN CONFORMANCE WITH PERTINENT FEDERAL, STATE OR LOCAL REGULATIONS.

-----  
SECTION VIII - PROTECTIVE EQUIPMENT TO BE USED  
-----

RESPIRATORY PROTECTION:

IN WELL VENTILATED AREAS, RESPIRATORY PROTECTION IS NOT NORMALLY REQUIRED. IN POORLY VENTILATED AREAS, USE NIOSH RESPIRATOR.

VENTILATION:

PROVIDE ADEQUATE VENTILATION USING A MECHANICAL EXHAUST FAN.

PROTECTIVE GLOVES:

CHEMICAL RESISTANT GLOVES RECOMMENDED.

EYE PROTECTION:

CHEMICAL SAFETY GOGGLES RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT:

EYE WASH STATION AND SAFETY SHOWER SHOULD BE EASILY ACCESSIBLE.

-----  
NOTE - THE INFORMATION CONTAINED HEREIN IS FURNISHED WITHOUT WARRANTY OF ANY KIND. EMPLOYERS SHOULD USE THIS INFORMATION ONLY AS A SUPPLEMENT TO OTHER INFORMATION GATHERED BY THEM AND MUST MAKE INDEPENDENT DETERMINATIONS OF SUITABILITY AND COMPLETENESS OF INFORMATION FROM ALL SOURCES TO ASSURE PROPER USE OF THESE MATERIALS AND THE SAFETY AND HEALTH OF EMPLOYEES.  
-----



# SAFETY DATA SHEET

## 1. Product and Company Identification

**Product Identifier** Iodized Salt

**Other means of identification  
Synonyms** Superior Iodized Table Salt  
Private Label Brand Iodized Table Salt  
Superior TX-10 Iodized Salt

**Recommended Use** Food applications

**Recommended Restrictions** None Known

**Manufacturer** US Salt LLC  
3580 Salt Point Road  
Watkins Glen, NY 14891  
Phone: 607-535-2721

**Emergency Telephone Number** CHEMTREC (800) 424-9300

## 2. Hazard(s) Identification

**Physical Hazards** Not Classified

**Health Hazards** Not Classified

**Environmental Hazards** Not Classified

**OSHA Defined Hazards** Not Classified

### Label Elements

**Hazard Symbol** None

**Signal Word** None

**Hazard Statement** The product does not meet the criteria for classification

**Precautionary Statement**

**Prevention** Observe good industrial hygiene practices

**Response** Wash hands after handling

**Storage** Store away from incompatible materials

**Disposal** Dispose of waste and residues in accordance with local authority requirements

**Hazard(s) not otherwise  
Classified (HNOC)** None Known

## 3. Composition / Information on Ingredients

### Salt and/or Salt Mixtures

Chemical Name	CAS #	%
Sodium Chloride	7647-14-5	99.0-99.7
Sodium Silicoaluminate	1344-00-9	< 0.70
Dextrose	50-99-7	0.02-0.03
Sodium Bicarbonate	144-55-8	0.00-0.01
Potassium Iodide	7681-11-0	0.006-0.010
Sodium Ferrocyanide	13601-19-9	0.00-0.0013

GRAS Substance (Generally Recognized as Safe)

## 4. First Aid Measures

**Inhalation** Avoid breathing dust. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

**Skin Contact** Wash skin with soap and water. Get medical attention if irritation develops and persists.

**Eye Contact** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Give one or two glasses of water if person is alert and able to swallow. Get medical attention if symptoms occur.

**Most important  
symptoms/effects, acute and  
delayed** Direct contact with eyes may cause temporary irritation.

**Indication of immediate  
medical attention and special  
Treatment needed** Treat symptomatically

## 5. Fire Fighting Measures

<b>Suitable extinguishing media</b>	Salt and salt mixtures are non-combustible
<b>Unsuitable extinguishing media</b>	Not Applicable
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Use appropriate firefighting PPE as a general precaution.
<b>Fire-fighting equipment/instructions</b>	Salt is not combustible and is thus not the material of concern for firefighting equipment or methods.
<b>Specific methods</b>	In the event of a fire, equipment and methods that are consistent with the combusting material should be used.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

## 6. Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Avoid generation and spreading of dust. Avoid inhalation of dust and contact with skin and eyes. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Stop the flow of material, if this is without risk. If sweeping of a contaminated area is necessary, use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Avoid release to the environment. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid discharge into storm drains or sanitary sewers, groundwater or soil.

## 7. Handling and Storage

<b>Precautions for safe handling</b>	Use work methods which minimize dust production. Provide appropriate exhaust ventilation at places where dust is formed. Avoid inhalation of dust and contact with skin and eyes. Wash thoroughly after handling. Keep away from strong acids. Practice good housekeeping.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in closed original container in a dry place. Store away from incompatible materials (see section 10 of the SDS). Becomes hygroscopic at 70-75% relative humidity. Avoid humid or wet conditions as product will cake and become hard.

## 8. Exposure Controls / Personal Protection

**Occupational exposure limits** No exposures limits noted for ingredient(s).

### **US. ACGIH Threshold Limit Values**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Potassium Iodide (CAS 7681-11-0)	TWA	0.01 ppm	Inhalable Form and vapor
Sodium Silicoaluminate (CAS 1344-00-9)	TWA	1 mg/m <sup>3</sup>	Respirable Fraction

### **US. NIOSH Pocket Guide to Chemical Hazards**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Sodium Silicoaluminate	TWA	2 mg/m <sup>3</sup>

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls** TWA PEL: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, OSHA (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 5mg/cu.m. Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total Dust 8-Hour TWA PEL.

TWA TLV: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): 10mg/cu.m. Inhalable Particulate 8-Hours TWA TLV, 3mg/cu.m. Respirable Particulate TWA TLV.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

## Individual protection measures, such as personal protective equipment

<b>Eye/face protection</b>	Wear safety glasses with side shields. Wear a full-face respirator, if needed.
<b>Skin protection</b>	
<b>Hand protection</b>	If there is constant skin contact, rubber gloves are recommended.
<b>Other</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and Chemical Properties

<b>Appearance</b>	White crystalline solid
<b>Physical State</b>	Solid
<b>Form</b>	Crystalline Solid
<b>Color</b>	White
<b>Odor</b>	Halogen odor
<b>Odor Threshold</b>	Not applicable
<b>pH in aqueous solution</b>	4-9
<b>Melting point/freezing point</b>	1473.8 °F (801 °C)
<b>Initial boiling point and boiling range</b>	2669 °F (1465 °C) (760 mm Hg)
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit – lower (%)</b>	Not applicable
<b>Flammability limit – upper (%)</b>	Not applicable
<b>Explosive limit – lower (%)</b>	Not applicable
<b>Explosive limit – upper (%)</b>	Not applicable
<b>Vapor pressure</b>	2.4 mm Hg (1376.6 °F (747 °C))
<b>Vapor density</b>	Not applicable
<b>Relative density</b>	2.16 (H <sub>2</sub> O = 1)
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	26.4%
<b>Partition coefficient (n-octanol/water)</b>	Not applicable
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	Not applicable
<b>Viscosity</b>	Not applicable
<b>Other information</b>	
<b>Bulk density</b>	53 – 83 lb/ft <sup>3</sup>
<b>Molecular formula</b>	NaCl, 14SiO <sub>2</sub> ·Al <sub>2</sub> O <sub>3</sub> ·Na <sub>2</sub> ·3H <sub>2</sub> O, NaHCO <sub>3</sub> , KI, Na <sub>4</sub> Fe(CN) <sub>6</sub> ·10H <sub>2</sub> O
<b>Molecular weight</b>	58.44, 1059.3, 84.0, 166.02, 484.06

## 10. Stability and Reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials, i.e. strong oxidizing agents.
<b>Incompatible materials</b>	Strong oxidizing agents, strong acids. Becomes corrosive to metals when wet.
<b>Hazardous decomposition products</b>	Chlorine gas, hydrogen chloride, oxides of sodium.

## 11. Toxicological Information

### Information on likely routes of exposure

<b>Ingestion</b>	Expected to be low ingestion hazard
<b>Inhalation</b>	High concentrations of dust may irritate throat and respiratory system and cause coughing.
<b>Skin contact</b>	Dust may irritate skin. May cause irritation through mechanical abrasion.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.

**Symptoms related to the physical, chemical and toxicological characteristics**  
Dust may cause eye, skin and respiratory tract irritation. Exposed individuals may experience eye tearing, redness and discomfort.

### Information on toxicological effects

**Acute toxicity**  
In some cases of confirmed hypertension, ingestion may result in elevated blood pressure. Ingestion of large amounts (greater than 0.1 pound) can cause gastrointestinal upset and irritation of the stomach. Rare cases of over exposure can lead to systemic toxicity related to the binding of ionized blood calcium.

<b>Product</b>	<b>Species</b>	<b>Test Results</b>
Sodium Chloride (CAS 7647-14-5)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Mouse	4000 mg/kg
	Rat	3000 mg/kg
<i>Other</i>		
LD50	Mouse	2602 mg/kg
Sodium Silicoaluminate (CAS 1344-00-9)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg, 24 hours
<i>Inhalation</i>		
	Rat	> 2.08 mg/l, 4 hours
Dextrose (CAS		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	25,800 mg/kg
Potassium Iodide		
<b>Acute</b>		
<i>Oral</i>		
LD50		500-5000 mg/kg
	Mouse	1000 mg/kg
	Rat	4340 mg/kg
<i>Other</i>		
LD50	Mouse	430 mg/kg
	Rat	> 285 mg/kg

Product	Species	Test Results
Sodium Bicarbonate (CAS 144-55-8)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	> 4000 mg/kg
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation	
<b>Serious eye damage/eye irritation</b>	Dust in the eyes will cause irritation	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not available	
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization	
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic	
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA	
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Specific target organ toxicity - single exposure</b>	Not classified	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified	
<b>Aspiration Hazard</b>	Due to the physical form of the product, it is not considered an aspiration hazard.	

## 12. Ecological Information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Sodium Chloride (CAS 7647-14-5)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 340.7 – 469.2 mg/l, 48 hours
Fish	LC50	Rainbow trout, Donaldson trout ( <i>Oncorhynchus mykiss</i> ) 4747 – 7824 mg/l, 96 hours
Sodium Aluminosilicate (CAS 1344-00-9)		
<b>Aquatic</b>		
Fish	LC50	Guppy ( <i>Poecilia reticulata</i> ) 1800 – 3200 mg/l, 96 hours
Potassium Iodide (CAS 7681-11-0)		
<b>Aquatic</b>		
Fish	LC50	Rainbow trout, Donaldson trout ( <i>Oncorhynchus mykiss</i> ) 896 mg/l, 96 hours
Sodium Bicarbonate (CAS 144-55-8)		
<b>Aquatic</b>		
Crustacea	EC50	Daphnia 2350 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> ) 8600 mg/l, 96 hours
<b>Persistence and degradability</b>	No data is available on the degradability of this product	
<b>Bioaccumulative potential</b>	No data available	
Partition coefficient n-octanol/water (log Kow)		
Dextrose (CAS 50-99-7)	-3.24	
<b>Mobility in soil</b>	No data available	
<b>Mobility in general</b>	No data available	
<b>Other Adverse effects</b>	None known	

### **13. Disposal Considerations**

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal Instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since Emptied containers may retain product residue, follow label warnings even after container is emptied.

### **14. Transport Information**

#### **U.S. Department of Transportation (DOT)**

Not regulated as dangerous goods.

#### **Transportation of Dangerous Goods (TDG – Canada)**

Not regulated as dangerous goods.

#### **IATA**

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not Applicable

### **15. Regulatory Information**

#### **US Federal Regulations**

All components are on the U.S. EPA TSCA Inventory List  
This product is not known to be a "hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated

#### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed

#### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated

#### **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPS) List**

Not regulated

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<b>Hazard Categories</b>	Immediate Hazard – No Delayed Hazard – No Fire Hazard – No Pressure Hazard – No Reactivity Hazard – No
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<b>SARA 302 Extremely Hazardous Substance</b>	No
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<b>SARA 311/312 Hazardous Chemical</b>	No
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<b>SARA 313 (TRI reporting)</b>	Not regulated
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#### **Other federal regulations**

<b>Safe Drinking Water Act (SDWA)</b>	Not regulated
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## US state regulations

### US Massachusetts RTK – Substance List

Not regulated

### US New Jersey Worker and Community Right-to Know Act

Not listed

### US Pennsylvania Worker and Community Right-to-Know Law

Sodium Silicoaluminate (CAS 1344-00-9)

### US Rhode Island RTK

Not regulated

### US California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### US – California Proposition 65 – Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

## International Inventories

<u>Country(s) or region</u>	<u>Inventory name</u>	<u>On inventory (Yes/No)*</u>
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ENCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or are exempt from listing on the inventory administered by the governing country(s)

## 16. Other Information, including date of preparation or last revision

<b>Issue Date</b>	01-March-2015
<b>Revision Date</b>	-
<b>Version #</b>	01

### Legend

Severe	4	<b>HMIS Ratings</b>	Health	1
Serious	3		Flammability	0
Moderate	2		Physical Hazard	0
Slight	1		Personal protection	A
Minimal	0	<b>NFPA Ratings</b>	Health	1
			Flammability	0
			Reactivity	0

### **Disclaimer**

The information contained herein was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the manufacturer's control, it is the users responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies may have specific regulations concerning the transportation, handling storage, use or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.

## Section 1 Identification

Page E1 of E2

**INNOVATING SCIENCE**® by Aldon Corporation  
 "Cutting edge science for the classroom"  
 221 Rochester Street  
 Avon, NY 14414-9409  
 (585) 226-6177

**CHEMTREC 24 Hour Emergency**  
**Phone Number (800) 424-9300**  
 For laboratory and industrial use only.  
 Not for drug, food or household use.

Product	ISOPROPYL ALCOHOL
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Synonyms	2-Propanol ; Isopropanol
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## Section 2 Hazards identification

Signal word: DANGER

Pictograms: GHS02 / GHS07

Target organs: Central nervous system, Liver, Kidneys.



## GHS Classification:

Flammable liquid (Category 2)

Eye irritation (Category 2)

STOT-SE (Category 3)

## GHS Label information: Hazard statement(s):

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

## Precautionary statement(s):

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233: Keep container tightly closed.

P241: Use explosion-proof electrical/ventilating/lighting equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P261: Avoid breathing mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER or doctor if you feel unwell.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical attention.

P370+P378: In case of fire: Use dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam to extinguish.

P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

## Section 3 Composition / information on ingredients

Chemical Name	CAS #	%	EINECS
Isopropyl alcohol	67-63-0	100%	200-661-7

## Section 4 First aid measures

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** CAUSES SERIOUS EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire fighting measures

Suitable Extinguishing Media: Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly. Flame may not be visible in daylight.

## Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

**Section 7 Handling and storage**

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, well-ventilated area away from incompatible substances. Keep away from ignition sources.

**Section 8 Exposure controls / personal protection**

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Isopropanol	TWA: 200 ppm / STEL: 400 ppm	TWA: 400 ppm / 980 mg/m <sup>3</sup>	TWA: 400 ppm / STEL: 500 ppm

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

**Section 9 Physical and chemical properties**

<b>Appearance:</b> Clear, colorless liquid.	<b>Evaporation rate ( Butyl acetate = 1):</b> 2.3	<b>Partition coefficient: (n-octanol / water):</b> Log Pow: 0.05
<b>Odor:</b> Aromatic odor.	<b>Flammability (solid/gas):</b> Data not available.	<b>Auto-ignition temperature:</b> 399°C (750°F) ASTM-E659-78
<b>Odor threshold:</b> Data not available.	<b>Explosion limits: Lower / Upper:</b> 2% / 12%	<b>Decomposition temperature:</b> Data not available.
<b>pH:</b> Data not available.	<b>Vapor pressure (mm Hg):</b> 33 mm @20°C	<b>Viscosity:</b> Data not available.
<b>Melting / Freezing point:</b> -90°C (-130°F)	<b>Vapor density (Air = 1):</b> 2.1	<b>Molecular formula:</b> (CH <sub>3</sub> ) <sub>2</sub> CHOH
<b>Boiling point:</b> 82°C (179.6°F)	<b>Relative density (Specific gravity):</b> 0.786-0.79 @ 20°C	<b>Molecular weight:</b> 60.10
<b>Flash point:</b> 12°C (53°F) CC	<b>Solubility(ies):</b> Complete in water.	

**Section 10 Stability and reactivity**

**Chemical stability:** Stable **Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Excessive temperatures, heat, sparks, open flame and other sources of ignition.

**Incompatible materials:** Strong oxidizing materials, caustics, aluminums, metals, nitroform, oleum, chlorinated compounds can react vigorously with this alcohol.

**Hazardous decomposition products:** Carbon oxides.

**Section 11 Toxicological information**

**Acute toxicity:** Oral-rat LD50: 4396 mg/kg ; Inhalation-rat LC50: 72.6 mg/L/4 hours ; Dermal-rat LD50: 12,800 mg/kg

**Skin corrosion/irritation:** Skin-rabbit - Slight irritant.

**Serious eye damage/irritation:** Eyes-rabbit - Irritating.

**Respiratory or skin sensitization:** Not sensitizing

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**IARC classified:** Group 3: Not classifiable as to its carcinogenicity to humans

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Ca Prop 65:** This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Yes

**Potential health effects:**

**Inhalation:** Inhalation of high vapor concentrations may cause central nervous system depression resulting in dizziness, drowsiness, nausea, vomiting, inability to concentrate and irritation of the throat. Continued inhalation may result in unconsciousness and death.

**Ingestion:** Aspiration hazard. Liquid can directly enter the lungs (aspirated) when swallowed or vomited. Serious lung damage and possible fatal chemical pneumonia can develop if this occurs.

**Skin:** Prolonged or repeated contact may cause irritation and drying, cracking and defatting of the skin which can lead to dermatitis.

**Eyes:** Contact causes burning sensation, redness, swelling, and/or blurred vision.

**Signs and symptoms of exposure:** See Potential health effects above.

**Additional information:** RTECS #: NT8050000 [Isopropanol]

**Section 12 Ecological information**

**Toxicity to fish:** Pimephales promelas (Fish, fresh water) LC50: 9640 mg/L/96 hours [Isopropanol]

**Toxicity to daphnia and other aquatic invertebrates:** Artemia salina (Crustacea), EC50 = >10,000 mg/L/24 hours [Isopropanol]

**Toxicity to algae:** Scenedesmus quadricauda (Algae), LOEC50 = 1,800 mg/L/7 days [Isopropanol]

**Persistence and degradability:** No data available **Bioaccumulative potential:** No data available

**Mobility in soil:** No data available **PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Section 13 Disposal considerations**

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

**Section 14 Transport information**

**UN/NA number:** UN1219 **Shipping name:** Isopropanol

**Hazard class:** 3 **Packing group:** II

**Reportable Quantity:** No

**Marine pollutant:** No

**Exceptions:** Limited quantity equal to or less than 1 L

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**Section 15 Regulatory information**

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Isopropyl alcohol	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

**Section 16 Other information**

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.



# SAFETY DATA SHEET

## 1. Product and Company Identification

**Product Identifier** Iodized Salt

**Other means of identification  
Synonyms** Superior Iodized Table Salt  
Private Label Brand Iodized Table Salt  
Superior TX-10 Iodized Salt

**Recommended Use** Food applications

**Recommended Restrictions** None Known

**Manufacturer** US Salt LLC  
3580 Salt Point Road  
Watkins Glen, NY 14891  
Phone: 607-535-2721

**Emergency Telephone Number** CHEMTREC (800) 424-9300

## 2. Hazard(s) Identification

**Physical Hazards** Not Classified

**Health Hazards** Not Classified

**Environmental Hazards** Not Classified

**OSHA Defined Hazards** Not Classified

### Label Elements

**Hazard Symbol** None

**Signal Word** None

**Hazard Statement** The product does not meet the criteria for classification

**Precautionary Statement**

**Prevention** Observe good industrial hygiene practices

**Response** Wash hands after handling

**Storage** Store away from incompatible materials

**Disposal** Dispose of waste and residues in accordance with local authority requirements

**Hazard(s) not otherwise  
Classified (HNOC)** None Known

## 3. Composition / Information on Ingredients

### Salt and/or Salt Mixtures

Chemical Name	CAS #	%
Sodium Chloride	7647-14-5	99.0-99.7
Sodium Silicoaluminate	1344-00-9	< 0.70
Dextrose	50-99-7	0.02-0.03
Sodium Bicarbonate	144-55-8	0.00-0.01
Potassium Iodide	7681-11-0	0.006-0.010
Sodium Ferrocyanide	13601-19-9	0.00-0.0013

GRAS Substance (Generally Recognized as Safe)

## 4. First Aid Measures

**Inhalation** Avoid breathing dust. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

**Skin Contact** Wash skin with soap and water. Get medical attention if irritation develops and persists.

**Eye Contact** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Give one or two glasses of water if person is alert and able to swallow. Get medical attention if symptoms occur.

**Most important  
symptoms/effects, acute and  
delayed** Direct contact with eyes may cause temporary irritation.

**Indication of immediate  
medical attention and special  
Treatment needed** Treat symptomatically

## 5. Fire Fighting Measures

<b>Suitable extinguishing media</b>	Salt and salt mixtures are non-combustible
<b>Unsuitable extinguishing media</b>	Not Applicable
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Use appropriate firefighting PPE as a general precaution.
<b>Fire-fighting equipment/instructions</b>	Salt is not combustible and is thus not the material of concern for firefighting equipment or methods.
<b>Specific methods</b>	In the event of a fire, equipment and methods that are consistent with the combusting material should be used.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

## 6. Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Avoid generation and spreading of dust. Avoid inhalation of dust and contact with skin and eyes. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Stop the flow of material, if this is without risk. If sweeping of a contaminated area is necessary, use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Avoid release to the environment. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid discharge into storm drains or sanitary sewers, groundwater or soil.

## 7. Handling and Storage

<b>Precautions for safe handling</b>	Use work methods which minimize dust production. Provide appropriate exhaust ventilation at places where dust is formed. Avoid inhalation of dust and contact with skin and eyes. Wash thoroughly after handling. Keep away from strong acids. Practice good housekeeping.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in closed original container in a dry place. Store away from incompatible materials (see section 10 of the SDS). Becomes hygroscopic at 70-75% relative humidity. Avoid humid or wet conditions as product will cake and become hard.

## 8. Exposure Controls / Personal Protection

**Occupational exposure limits** No exposures limits noted for ingredient(s).

### **US. ACGIH Threshold Limit Values**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Potassium Iodide (CAS 7681-11-0)	TWA	0.01 ppm	Inhalable Form and vapor
Sodium Silicoaluminate (CAS 1344-00-9)	TWA	1 mg/m <sup>3</sup>	Respirable Fraction

### **US. NIOSH Pocket Guide to Chemical Hazards**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Sodium Silicoaluminate	TWA	2 mg/m <sup>3</sup>

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**

TWA PEL: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, OSHA (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 5mg/cu.m. Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total Dust 8-Hour TWA PEL.

TWA TLV: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): 10mg/cu.m. Inhalable Particulate 8-Hours TWA TLV, 3mg/cu.m. Respirable Particulate TWA TLV.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

## Individual protection measures, such as personal protective equipment

<b>Eye/face protection</b>	Wear safety glasses with side shields. Wear a full-face respirator, if needed.
<b>Skin protection</b>	
<b>Hand protection</b>	If there is constant skin contact, rubber gloves are recommended.
<b>Other</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and Chemical Properties

<b>Appearance</b>	White crystalline solid
<b>Physical State</b>	Solid
<b>Form</b>	Crystalline Solid
<b>Color</b>	White
<b>Odor</b>	Halogen odor
<b>Odor Threshold</b>	Not applicable
<b>pH in aqueous solution</b>	4-9
<b>Melting point/freezing point</b>	1473.8 °F (801 °C)
<b>Initial boiling point and boiling range</b>	2669 °F (1465 °C) (760 mm Hg)
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit – lower (%)</b>	Not applicable
<b>Flammability limit – upper (%)</b>	Not applicable
<b>Explosive limit – lower (%)</b>	Not applicable
<b>Explosive limit – upper (%)</b>	Not applicable
<b>Vapor pressure</b>	2.4 mm Hg (1376.6 °F (747 °C))
<b>Vapor density</b>	Not applicable
<b>Relative density</b>	2.16 (H <sub>2</sub> O = 1)
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	26.4%
<b>Partition coefficient (n-octanol/water)</b>	Not applicable
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	Not applicable
<b>Viscosity</b>	Not applicable
<b>Other information</b>	
<b>Bulk density</b>	53 – 83 lb/ft <sup>3</sup>
<b>Molecular formula</b>	NaCl, 14SiO <sub>2</sub> ·Al <sub>2</sub> O <sub>3</sub> ·Na <sub>2</sub> ·3H <sub>2</sub> O, NaHCO <sub>3</sub> , KI, Na <sub>4</sub> Fe(CN) <sub>6</sub> ·10H <sub>2</sub> O
<b>Molecular weight</b>	58.44, 1059.3, 84.0, 166.02, 484.06

## 10. Stability and Reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials, i.e. strong oxidizing agents.
<b>Incompatible materials</b>	Strong oxidizing agents, strong acids. Becomes corrosive to metals when wet.
<b>Hazardous decomposition products</b>	Chlorine gas, hydrogen chloride, oxides of sodium.

## 11. Toxicological Information

### Information on likely routes of exposure

<b>Ingestion</b>	Expected to be low ingestion hazard
<b>Inhalation</b>	High concentrations of dust may irritate throat and respiratory system and cause coughing.
<b>Skin contact</b>	Dust may irritate skin. May cause irritation through mechanical abrasion.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.

**Symptoms related to the physical, chemical and toxicological characteristics**  
Dust may cause eye, skin and respiratory tract irritation. Exposed individuals may experience eye tearing, redness and discomfort.

### Information on toxicological effects

**Acute toxicity**  
In some cases of confirmed hypertension, ingestion may result in elevated blood pressure. Ingestion of large amounts (greater than 0.1 pound) can cause gastrointestinal upset and irritation of the stomach. Rare cases of over exposure can lead to systemic toxicity related to the binding of ionized blood calcium.

<b>Product</b>	<b>Species</b>	<b>Test Results</b>
Sodium Chloride (CAS 7647-14-5)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Mouse	4000 mg/kg
	Rat	3000 mg/kg
<i>Other</i>		
LD50	Mouse	2602 mg/kg
Sodium Silicoaluminate (CAS 1344-00-9)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg, 24 hours
<i>Inhalation</i>		
	Rat	> 2.08 mg/l, 4 hours
Dextrose (CAS		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	25,800 mg/kg
Potassium Iodide		
<b>Acute</b>		
<i>Oral</i>		
LD50		500-5000 mg/kg
	Mouse	1000 mg/kg
	Rat	4340 mg/kg
<i>Other</i>		
LD50	Mouse	430 mg/kg
	Rat	> 285 mg/kg

Product	Species	Test Results
Sodium Bicarbonate (CAS 144-55-8)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	> 4000 mg/kg
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation	
<b>Serious eye damage/eye irritation</b>	Dust in the eyes will cause irritation	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not available	
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization	
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic	
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA	
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Specific target organ toxicity - single exposure</b>	Not classified	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified	
<b>Aspiration Hazard</b>	Due to the physical form of the product, it is not considered an aspiration hazard.	

## 12. Ecological Information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Sodium Chloride (CAS 7647-14-5)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 340.7 – 469.2 mg/l, 48 hours
Fish	LC50	Rainbow trout, Donaldson trout ( <i>Oncorhynchus mykiss</i> ) 4747 – 7824 mg/l, 96 hours
Sodium Aluminosilicate (CAS 1344-00-9)		
<b>Aquatic</b>		
Fish	LC50	Guppy ( <i>Poecilia reticulata</i> ) 1800 – 3200 mg/l, 96 hours
Potassium Iodide (CAS 7681-11-0)		
<b>Aquatic</b>		
Fish	LC50	Rainbow trout, Donaldson trout ( <i>Oncorhynchus mykiss</i> ) 896 mg/l, 96 hours
Sodium Bicarbonate (CAS 144-55-8)		
<b>Aquatic</b>		
Crustacea	EC50	Daphnia 2350 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> ) 8600 mg/l, 96 hours
<b>Persistence and degradability</b>	No data is available on the degradability of this product	
<b>Bioaccumulative potential</b>	No data available	
Partition coefficient n-octanol/water (log Kow)		
Dextrose (CAS 50-99-7)	-3.24	
<b>Mobility in soil</b>	No data available	
<b>Mobility in general</b>	No data available	
<b>Other Adverse effects</b>	None known	

### **13. Disposal Considerations**

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal Instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since Emptied containers may retain product residue, follow label warnings even after container is emptied.

### **14. Transport Information**

#### **U.S. Department of Transportation (DOT)**

Not regulated as dangerous goods.

#### **Transportation of Dangerous Goods (TDG – Canada)**

Not regulated as dangerous goods.

#### **IATA**

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not Applicable

### **15. Regulatory Information**

#### **US Federal Regulations**

All components are on the U.S. EPA TSCA Inventory List  
This product is not known to be a "hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated

#### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed

#### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated

#### **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPS) List**

Not regulated

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<b>Hazard Categories</b>	Immediate Hazard – No Delayed Hazard – No Fire Hazard – No Pressure Hazard – No Reactivity Hazard – No
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<b>SARA 302 Extremely Hazardous Substance</b>	No
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<b>SARA 311/312 Hazardous Chemical</b>	No
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<b>SARA 313 (TRI reporting)</b>	Not regulated
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#### **Other federal regulations**

<b>Safe Drinking Water Act (SDWA)</b>	Not regulated
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## US state regulations

### US Massachusetts RTK – Substance List

Not regulated

### US New Jersey Worker and Community Right-to Know Act

Not listed

### US Pennsylvania Worker and Community Right-to-Know Law

Sodium Silicoaluminate (CAS 1344-00-9)

### US Rhode Island RTK

Not regulated

### US California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### US – California Proposition 65 – Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

## International Inventories

<u>Country(s) or region</u>	<u>Inventory name</u>	<u>On inventory (Yes/No)*</u>
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ENCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or are exempt from listing on the inventory administered by the governing country(s)

## 16. Other Information, including date of preparation or last revision

<b>Issue Date</b>	01-March-2015
<b>Revision Date</b>	-
<b>Version #</b>	01

### Legend

Severe	4	<b>HMIS Ratings</b>	Health	1
Serious	3		Flammability	0
Moderate	2		Physical Hazard	0
Slight	1		Personal protection	A
Minimal	0	<b>NFPA Ratings</b>	Health	1
			Flammability	0
			Reactivity	0

### **Disclaimer**

The information contained herein was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the manufacturer's control, it is the users responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies may have specific regulations concerning the transportation, handling storage, use or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.

Section 1 Identification

**INNOVATING SCIENCE**® by Aldon  
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 (585) 226-6177

**CHEMTREC 24 Hour Emergency**  
**Phone Number (800) 424-9300**  
 For laboratory and industrial use only.  
 Not for drug, food or household use.

Product | UNIVERSAL PH INDICATOR

Synonyms | Universal Indicator

Section 2 Hazards Identification

Signal word: DANGER  
 Pictograms: GHS02 / GHS08 / GHS06  
 Target organs: Eyes, Central nervous system, Liver, Kidneys.



GHS Classification:  
 Flammable liquid (Category 2)  
 Acute toxicity, inhalation (Category 3)  
 Skin irritation (Category 2)  
 Eye irritation (Category 2B)  
 STOT-SE (Category 2)  
 STOT-SE (Category 3)

GHS Label information: Hazard statement:  
 H225: Highly flammable liquid and vapour.  
 H315: Causes skin irritation.  
 H319: Causes serious eye irritation.  
 H331: Toxic if inhaled.  
 H336: May cause drowsiness or dizziness.  
 H371: May cause damage to organs.

Precautionary statement:  
 P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 P240: Ground/bond container and receiving equipment.  
 P241: Use explosion-proof electrical/ventilating/lighting equipment.  
 P242: Use only non-sparking tools.  
 P243: Take precautionary measures against static discharge.  
 P260: Do not breathe mist/vapours/spray.  
 P264: Wash hands thoroughly after handling.  
 P271: Use only outdoors or in a well-ventilated area.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P312: Call a POISON CENTER or doctor if you feel unwell.  
 P332+P313: If skin irritation occurs: Get medical attention.  
 P337+P313: If eye irritation persists: Get medical attention.  
 P362+P364: Take off contaminated clothing and wash it before reuse.  
 P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
 P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Hazards not otherwise classified:  
 Health hazards not otherwise classified (HHNOC) - Not Known  
 Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / information on ingredients

Chemical Name	CAS #	%	EINECS
Ethyl alcohol	64-17-5	64.50 - 65.11%	200-578-6
Water	7732-18-5	23.96%	231-791-2
Isopropyl alcohol	67-63-0	6.83%	200-661-7
Methanol	67-56-1	3.03 - 3.26%	200-659-6
Methyl isobutyl ketone	108-10-1	0.68 - 0.76%	203-550-1
Bromothymol blue	76-59-5	0.06%	200-971-2
Phenolphthalein	77-09-8	0.06%	201-004-7
Methyl red	845-10-3	0.02%	212-682-9
Thymol blue	62625-21-2	0.005%	263-650-6

Section 4 First aid measures

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

**Suitable Extinguishing Media:** Carbon dioxide, dry chemical, dry sand, alcohol foam.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly. Flame may not be visible in daylight.

Section 6 Accidental release measures

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

**Section 7 Handling and storage**

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

**Section 8 Exposure controls / personal protection**

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Ethanol	STEL: 1000 ppm / 1880 mg/m <sup>3</sup> (A3)	TWA: 1000 ppm / 1900 mg/m <sup>3</sup>	TWA: 1000 ppm / 1900 mg/m <sup>3</sup>

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

**Section 9 Physical and chemical properties**

<b>Appearance:</b> Clear, green liquid.	<b>Evaporation rate ( Butyl acetate = 1):</b> 4.1*	<b>Partition coefficient:</b> Data not available
<b>Odor:</b> Mild characteristic odor.	<b>Flammability (solid/gas):</b> Data not available.	<b>Auto-ignition temperature:</b> 400°C (752°F)*
<b>Odor threshold:</b> Data not available.	<b>Explosion limits: Lower / Upper:</b> 4.0%(V) / 20.0%(V)*	<b>Decomposition temperature:</b> Data not available.
<b>pH:</b> Data not available.	<b>Vapor pressure (mm Hg):</b> 44.6 @ 20°C (68°F)*	<b>Viscosity:</b> Data not available.
<b>Melting / Freezing point:</b> -114°C (-173°F)*	<b>Vapor density (Air = 1):</b> 1.59*	<b>Molecular formula:</b> Mixture
<b>Boiling point:</b> 75-80°C (173-174°F)*	<b>Relative density (Specific gravity):</b> 0.794 @ 60°F*	<b>Molecular weight:</b> Mixture
<b>Flash point:</b> Approximately 21°C (70°F)	<b>Solubility(ies):</b> Soluble in water.	

\*[Pure Ethanol]

**Section 10 Stability and reactivity**

**Chemical stability:** Stable **Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Excessive temperatures, heat, sparks, open flame and other sources of ignition.

**Incompatible materials:** Strong oxidizers, inorganic acids and halogens.

**Hazardous decomposition products:** Oxides of carbon.

**Section 11 Toxicological information**

**Acute toxicity:** Oral-rat LD50: 7060 mg/kg ; Inhalation-rat LC50: 124.7 mg/l/4hours [Ethanol]

**Skin corrosion/irritation:** Skin-rabbit - Slight irritant.

**Serious eye damage/irritation:** Eyes-rabbit - Severe irritant.

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**IARC classified:** Group 3: Not classifiable as to its carcinogenicity to humans. [Isopropanol]

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**CA Prop 65: ⚠ WARNING!** This product can expose you to Phenolphthalein, Methanol and Methyl isobutyl ketone, which are known to the State of California to cause cancer and birth defects or other reproductive harm.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Data not available

**Potential health effects:**

**Inhalation:** Inhalation may cause dizziness, drowsiness, nausea, vomiting, inability to concentrate and irritation of the throat.

**Ingestion:** Ingestion causes dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait and coma.

**Skin:** Contact with skin causes irritation defatting on prolonged contact.

**Eyes:** Contact with eyes may cause blindness.

**Signs and symptoms of exposure:** See Potential health effects above.

**Additional information:** RTECS #: KQ6300000 [Ethanol]

**Section 12 Ecological information**

**Toxicity to fish:** Oncorhynchus mykiss (fish, fresh water), LC50 = 11,200 mg/l/24 hours [Ethanol]

**Toxicity to daphnia and other aquatic invertebrates:** Daphnia magna (Crustacea), EC50 = 10,800 mg/l/24 hours [Ethanol, 99.8% pure]

**Toxicity to algae:** Chlorella pyrenoidosa (Algae), EC50 = 9,310 mg/l/growth rate [Ethanol, absolute]

**Persistence and degradability:** No data available **Bioaccumulative potential:** No data available

**Mobility in soil:** No data available **PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Section 13 Disposal considerations**

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

**Section 14 Transport information**

**UN/NA number:** UN1170 **Shipping name:** Ethanol solution

**Hazard class:** 3 **Packing group:** II

**Exceptions:** Limited quantity equal to or less than 1 L

**Reportable Quantity:** 5,000 lbs (2270 kg)

**Marine pollutant:** No

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**Section 15 Regulatory information**

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Ethanol	Listed	Not listed	D001	Listed	Not listed	⚠ WARNING -Cancer and Reproductive Harm - www.P65Warnings.ca.gov.
Methanol	Listed	5,000 lbs.	U154	Listed	Not listed	
Isopropanol	Listed	Not listed	Not listed	Listed	Not listed	

**Section 16 Other information**

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

**Section 1 Identification**

Page E1 of E2



**Aldon** 221 Rochester Street  
Avon, NY 14414  
(585) 226-6177

**CHEMTREC 24 Hour Emergency**  
**Phone Number (800) 424-9300**  
For laboratory and industrial use only.  
Not for drug, food or household use.

<b>Product</b>	ACETIC ACID, 1 MOLAR SOLUTION
----------------	-------------------------------

<b>Synonyms</b>	Acetic Acid, Water Solution
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**Section 2 Hazards identification****Signal word:** WARNING**Pictograms:** No symbol required**Target organs:** None known**GHS Classification:**

Eye irritation (Category 2B)

**GHS Label information: Hazard statement:**

H320: Causes eye irritation.

**Precautionary statement:**

P264: Wash hands thoroughly after handling.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical attention.

**Hazards not otherwise classified:**

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

**Section 3 Composition / information on ingredients**

Chemical Name	CAS #	%	EINECS
Water	7732-18-5	94.1%	231-791-2
Acetic acid	64-19-7	5.9%	200-580-7

**Section 4 First aid measures**

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

**Section 5 Fire fighting measures****Suitable Extinguishing Media:** Carbon dioxide, dry chemical, dry sand, alcohol foam.**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This chemical reacts violently with strong oxidizers, generating a fire and explosion hazard. Reacts violently with strong bases, strong acids and many other compounds.**Section 6 Accidental release measures****Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.**Containment and Cleanup:** Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

**Section 7 Handling and storage**

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, well-ventilated area away from incompatible substances. Keep away from ignition sources.

**Section 8 Exposure controls / personal protection**

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Acetic acid	TWA: 25 mg/m <sup>3</sup> STEL: 37 mg/m <sup>3</sup>	TWA: 25 mg/m <sup>3</sup>	TWA: 25 mg/m <sup>3</sup> STEL: 37 mg/m <sup>3</sup>

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

**Section 9 Physical and chemical properties**

<b>Appearance:</b> Clear, colorless liquid.	<b>Evaporation rate (Water = 1):</b> <1	<b>Partition coefficient:</b> Data not available
<b>Odor:</b> Vinegar-like odor.	<b>Flammability (solid/gas):</b> Data not available.	<b>Auto-ignition temperature:</b> Data not available
<b>Odor threshold:</b> Data not available.	<b>Explosion limits: Lower / Upper:</b> Data not available	<b>Decomposition temperature:</b> Data not available.
<b>pH:</b> Data not available.	<b>Vapor pressure (mm Hg):</b> 14 (water)	<b>Viscosity:</b> Data not available.
<b>Melting / Freezing point:</b> Approximately 0°C (32°F) (water)	<b>Vapor density (Air = 1):</b> 0.7 (water)	<b>Molecular formula:</b> Mixture
<b>Boiling point:</b> Approximately 100°C (212°F) (water)	<b>Relative density (Specific gravity):</b> Approximately 1.0 (water)	<b>Molecular weight:</b> Mixture
<b>Flash point:</b> Data not available	<b>Solubility(ies):</b> Complete in water.	

**Section 10 Stability and reactivity**

**Chemical stability:** Stable      **Hazardous polymerization:** Will not occur.  
**Conditions to avoid:** Excessive temperatures, heat, sparks, open flame and other sources of ignition.

**Incompatible materials:** Bases, strong oxidizers, chromic acid, nitric acid, sodium peroxide, carbonates, hydroxides, phosphates. Corrosive to some metals. Potentially violent reaction with acetaldehyde and acetic anhydride. Ignites on contact with potassium-tert-botoxide.

**Hazardous decomposition products:** Carbon monoxide, hydrogen sulfide and other harmful gases or vapors including oxides and/or other compounds of sulfur and sodium.

**Section 11 Toxicological information**

**Acute toxicity:** Oral-rat LD50: 3,310 mg/kg ; Inhalation-rat LC50: 11.4 mg/L/4 hours ; Dermal-rabbit LD50: 1,060 mg/kg [Acetic acid, glacial]

**Skin corrosion/irritation:** Skin-rabbit - Severe irritant. [Acetic acid, glacial]

**Serious eye damage/irritation:** Eyes-rabbit - Severe irritant. [Acetic acid, glacial]

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Ca Prop 65:** This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** Data not available

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Data not available

**Potential health effects:**

**Inhalation:** May be harmful if inhaled.

**Ingestion:** May be harmful if swallowed.

**Skin:** Contact with skin causes pain and redness.

**Eyes:** Contact with eyes may cause redness and pain.

**Signs and symptoms of exposure:** See Potential health effects above. Exercise appropriate procedures to minimize potential hazards.

**Additional information:** RTECS #: AF1225000 [Acetic acid, glacial]

**Section 12 Ecological information**

**Toxicity to fish:** *Gambusia affinis* (fish, fresh water), LC50 = 251 mg/L/24 hours [Acetic acid, glacial]

**Toxicity to daphnia and other aquatic invertebrates:** *Daphnia magna* (Crustacea), EC50 = 95 mg/L/24 hours [Acetic acid, glacial]

**Toxicity to algae:** *Euglena gracilis* (Algae), EC100 = 720 mg/L [Acetic acid, glacial]

**Persistence and degradability:** Easily biodegradable      **Bioaccumulative potential:** Not expected to bioaccumulate

**Mobility in soil:** No data available

**PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Section 13 Disposal considerations**

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

**Section 14 Transport information**

<b>UN/NA number:</b> Not applicable	<b>Shipping name:</b> Not Regulated	<b>Reportable Quantity:</b> No	<b>Marine pollutant:</b> No
<b>Hazard class:</b> Not applicable	<b>Packing group:</b> Not applicable		
<b>Exceptions:</b> Not applicable	<b>2020 ERG Guide #</b> Not applicable		

**Section 15 Regulatory information**

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Acetic acid, glacial	Listed	5,000 lbs (2270 kg)	D001, D002	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

**Section 16 Other information**

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.



# SAFETY DATA SHEET

## Section 1. Identification

<b>GHS product identifier</b>	: Elmer's School Glue
<b>Product code</b>	: E301, E304, E304LA, E304LALMR, E304NR, E308, E308LA, E308NR, E340, E340NR, E1304, 2024678, 2029187, 2051873, 2077067, 2089725, 2089733, 2121893, 6155060310, 6155060331, 6155060341, 60307W8, 6030Q, 60310Q
<b>Other means of identification</b>	: Elmer's Washable, No Run School Glue
<b>Product type</b>	: Liquid.

### Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

**Material uses** : Not available.

**Manufacturer** : Newell Brands, Inc.  
6655 Peachtree Dunwoody Road  
Sandy Springs, GA 30328  
USA  
800-323-0749

**Emergency telephone number (with hours of operation)** : CHEMTREC (U.S. and Canada) 1-800-424-9300  
CHEMTREC (Outside the U.S.) +1-703-527-0585

## Section 2. Hazards identification

**OSHA/HCS status** : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

**Classification of the substance or mixture** : Not classified.

Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 74.9%

Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 99.4%

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 99.4%

### GHS label elements

**Signal word** : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

### Precautionary statements

**General** : Read label before use. If medical advice is needed, have product container or label at hand.

**Prevention** : Not applicable.

**Response** : Not applicable.

**Storage** : Not applicable.

**Disposal** : Not applicable.

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture  
**Other means of identification** : Elmer's Washable, No Run School Glue

Ingredient name	%	CAS number
glycerol	≤3	56-81-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8).

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## Section 7. Handling and storage

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
glycerol	<p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</p> <p>TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Total dust</p> <p><b>OSHA PEL (United States, 5/2018).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</p> <p>TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust</p>

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### Appearance

Physical state	: Liquid.
Color	: White.
Odor	: Not available.
Odor threshold	: Not available.
pH	: 4.5 to 5.5
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Not available.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: Not available.
Solubility	: Not available.
Solubility in water	: Not available.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Flow time (ISO 2431)	: Not available.

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
glycerol	LD50 Oral	Rat	12600 mg/kg	-

#### Irritation/Corrosion

## Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

### Sensitization

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

## Section 11. Toxicological information

- General** : No known significant effects or critical hazards.  
**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
glycerol	12600	N/A	N/A	N/A	N/A

## Section 12. Ecological information

### Toxicity

Not available.

### Persistence and degradability

Not available.

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
glycerol	-1.76	-	low

### Mobility in soil

- Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

- Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

- Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

### Additional information

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : Not applicable.

#### Composition/information on ingredients

Name	%	Classification
glycerol	≤3	EYE IRRITATION - Category 2B

### State regulations

**Massachusetts** : The following components are listed: GLYCERINE MIST

## Section 15. Regulatory information

- New York** : None of the components are listed.
- New Jersey** : The following components are listed: GLYCERIN; 1,2,3-PROPANETRIOL
- Pennsylvania** : The following components are listed: 1,2,3-PROPANETRIOL
- California Prop. 65**

This product does not require a Safe Harbor warning under California Prop. 65.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

- Australia** : All components are listed or exempted.
- Canada** : All components are listed or exempted.
- China** : All components are listed or exempted.
- Europe** : All components are listed or exempted.
- Japan** : **Japan inventory (ENCS)**: All components are listed or exempted.  
**Japan inventory (ISHL)**: Not determined.
- New Zealand** : All components are listed or exempted.
- Philippines** : All components are listed or exempted.
- Republic of Korea** : All components are listed or exempted.
- Taiwan** : All components are listed or exempted.
- Thailand** : All components are listed or exempted.
- Turkey** : All components are listed or exempted.
- United States** : All components are listed or exempted.
- Viet Nam** : All components are listed or exempted.

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

Health	/	0
Flammability		0
Physical hazards		0

**Caution:** HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### National Fire Protection Association (U.S.A.)

## Section 16. Other information



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### Procedure used to derive the classification

Classification	Justification
Not classified.	

### History

**Date of printing** : 11/18/2020  
**Date of issue/Date of revision** : 11/18/2020  
**Date of previous issue** : 11/2/2020  
**Version** : 4

### Key to abbreviations

: ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 N/A = Not available  
 SGG = Segregation Group  
 UN = United Nations

**References** : Not available.

☑ Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Section 1 Identification**

Page E1 of E2



**Aldon** 221 Rochester Street  
Avon, NY 14414  
(585) 226-6177

**CHEMTREC 24 Hour Emergency**  
**Phone Number (800) 424-9300**  
For laboratory and industrial use only.  
Not for drug, food or household use.

**Product** HYDROCHLORIC ACID, 1 MOLAR (1 NORMAL) SOLUTION  
**Synonyms** Muriatic Acid, Water Solution / Hydrogen Chloride, Water Solution

**Section 2 Hazards identification**

**Signal word:** WARNING  
**Pictograms:** GHS05  
**Target organs:** Respiratory system, skin, eyes, lungs.



**GHS Classification:**  
Corrosive to metals (Category 1)  
Skin irritant (Category 3)  
Eye irritant (Category 2B)

**GHS Label information:**  
**Hazard statement(s):**  
H290: May be corrosive to metals.  
H316: Causes mild skin irritation.  
H320: Causes eye irritation.

**Precautionary statement(s):**

P234: Keep only in original container.  
P264: Wash hands thoroughly after handling.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+P313: If skin irritation occurs: Get medical attention.  
P337+P313: If eye irritation persists: Get medical attention.  
P390: Absorb spillage to prevent material damage.  
P406: Store in corrosive resistant container with a resistant inner liner.

**Hazards not otherwise classified:**

Health hazards not otherwise classified (HHNOC) - Not Known  
Physical hazards not otherwise classified (PHNOC) - Not Known

**Section 3 Composition / information on ingredients**

Chemical Name	CAS #	%	EINECS
Water	7732-18-5	96.86%	231-791-2
Hydrochloric acid	7647-01-0	3.14%	231-595-7

**Section 4 First aid measures**

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** MAY CAUSE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY CAUSE IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

**Section 5 Fire fighting measures**

**Suitable Extinguishing Media:** Carbon dioxide, dry chemical, dry sand, alcohol foam.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Contact with metals produce hydrogen, which is flammable and may produce explosive mixtures with air.

**Section 6 Accidental release measures**

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

**Section 7 Handling and storage**

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, well-ventilated area away from incompatible substances.

**Section 8 Exposure controls / personal protection**

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Hydrogen chloride	STEL: C 2 ppm / C 2.98 mg/m <sup>3</sup>	STEL: C 5 ppm / C 7 mg/m <sup>3</sup>	STEL: C 5 ppm / C 7 mg/m <sup>3</sup>

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

**Section 9 Physical and chemical properties**

**Appearance:** Clear, colorless liquid.

**Odor:** No odor.

**Odor threshold:** No data available

**pH:** No data available

**Melting / Freezing point:** ~ 0°C (~ 32°F) [water]

**Boiling point:** ~ 100°C (212°F) [water]

**Flash point:** Not flammable.

**Evaporation rate ( = 1):** < 1

**Flammability (solid/gas):** No data available

**Explosion limits: Upper/Lower:** No data available

**Vapor pressure (mm Hg):** 14 [water]

**Vapor density (Air = 1):** 0.7 [water]

**Relative density (Specific gravity):** 1.0 [water]

**Solubility(ies):** Complete.

**Partition coefficient: (n-octanol / water):** No data available

**Auto-ignition temperature:** No data available

**Decomposition temperature:** No data available

**Viscosity:** No data available

**Molecular formula:** Mixture.

**Molecular weight:** Mixture.

**Section 10 Stability and reactivity**

**Chemical stability:** Stable

**Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Containers may burst when heated. Avoid contact with water.

**Incompatible materials:** Metals, bases, active metals, alkali metals, oxidizing agents, hydroxides, amines, carbonates, cyanides, sulfides, sulfites, formaldehyde.

**Hazardous decomposition products:** Hydrogen chloride gas.

**Section 11 Toxicological information**

**Acute toxicity:** Data not available

**Skin corrosion/irritation:** Data not available at this dilution.

**Serious eye damage/irritation:** Data not available at this dilution.

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

**IARC:** Group 3: Not classifiable as to its carcinogenicity to humans.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Ca Prop 65:** This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** Data not available at this dilution.

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Data not available

**Potential health effects:** To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

**Inhalation:** May be harmful if inhaled. Material may cause irritation to the tissue of the mucous membranes and upper respiratory tract.

**Ingestion:** May be harmful if swallowed.

**Skin:** May cause irritation and/or burns.

**Eyes:** May cause irritation and/or burns.

**Signs and symptoms of exposure:** Data not available at this dilution.

**Additional information:** RTECS #: MW4025000 [Hydrochloric acid]

**Section 12 Ecological information**

**Toxicity to fish:** LC50 - Gambusia affinis (Mosquito fish) - 282 mg/l - 96 h (Hydrochloric acid)

**Toxicity to daphnia and other aquatic invertebrates:** No data available

**Toxicity to algae:** No data available

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Section 13 Disposal considerations**

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

**Section 14 Transport information**

**UN/NA number:** UN1789

**Shipping name:** Hydrochloric acid

**Hazard class:** 8

**Packing group:** III

**Reportable Quantity:** 5000 lbs (2270 kg)

**Marine pollutant:** No

**Exceptions:** Limited quantity equal to or less than 5 Lt

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**Section 15 Regulatory information**

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Hydrochloric acid	Listed	5000 lbs (2270 kg)	D002	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

**Section 16 Other information**

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.



# SAFETY DATA SHEET

## 1. Product and Company Identification

**Product Identifier** Iodized Salt

**Other means of identification  
Synonyms** Superior Iodized Table Salt  
Private Label Brand Iodized Table Salt  
Superior TX-10 Iodized Salt

**Recommended Use** Food applications

**Recommended Restrictions** None Known

**Manufacturer** US Salt LLC  
3580 Salt Point Road  
Watkins Glen, NY 14891  
Phone: 607-535-2721

**Emergency Telephone Number** CHEMTREC (800) 424-9300

## 2. Hazard(s) Identification

**Physical Hazards** Not Classified

**Health Hazards** Not Classified

**Environmental Hazards** Not Classified

**OSHA Defined Hazards** Not Classified

### Label Elements

**Hazard Symbol** None

**Signal Word** None

**Hazard Statement** The product does not meet the criteria for classification

**Precautionary Statement**

**Prevention** Observe good industrial hygiene practices

**Response** Wash hands after handling

**Storage** Store away from incompatible materials

**Disposal** Dispose of waste and residues in accordance with local authority requirements

**Hazard(s) not otherwise  
Classified (HNOC)** None Known

## 3. Composition / Information on Ingredients

### Salt and/or Salt Mixtures

Chemical Name	CAS #	%
Sodium Chloride	7647-14-5	99.0-99.7
Sodium Silicoaluminate	1344-00-9	< 0.70
Dextrose	50-99-7	0.02-0.03
Sodium Bicarbonate	144-55-8	0.00-0.01
Potassium Iodide	7681-11-0	0.006-0.010
Sodium Ferrocyanide	13601-19-9	0.00-0.0013

GRAS Substance (Generally Recognized as Safe)

## 4. First Aid Measures

**Inhalation** Avoid breathing dust. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

**Skin Contact** Wash skin with soap and water. Get medical attention if irritation develops and persists.

**Eye Contact** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Give one or two glasses of water if person is alert and able to swallow. Get medical attention if symptoms occur.

**Most important  
symptoms/effects, acute and  
delayed** Direct contact with eyes may cause temporary irritation.

**Indication of immediate  
medical attention and special  
Treatment needed** Treat symptomatically

## 5. Fire Fighting Measures

<b>Suitable extinguishing media</b>	Salt and salt mixtures are non-combustible
<b>Unsuitable extinguishing media</b>	Not Applicable
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Use appropriate firefighting PPE as a general precaution.
<b>Fire-fighting equipment/instructions</b>	Salt is not combustible and is thus not the material of concern for firefighting equipment or methods.
<b>Specific methods</b>	In the event of a fire, equipment and methods that are consistent with the combusting material should be used.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

## 6. Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Avoid generation and spreading of dust. Avoid inhalation of dust and contact with skin and eyes. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Stop the flow of material, if this is without risk. If sweeping of a contaminated area is necessary, use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Avoid release to the environment. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid discharge into storm drains or sanitary sewers, groundwater or soil.

## 7. Handling and Storage

<b>Precautions for safe handling</b>	Use work methods which minimize dust production. Provide appropriate exhaust ventilation at places where dust is formed. Avoid inhalation of dust and contact with skin and eyes. Wash thoroughly after handling. Keep away from strong acids. Practice good housekeeping.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in closed original container in a dry place. Store away from incompatible materials (see section 10 of the SDS). Becomes hygroscopic at 70-75% relative humidity. Avoid humid or wet conditions as product will cake and become hard.

## 8. Exposure Controls / Personal Protection

**Occupational exposure limits** No exposures limits noted for ingredient(s).

### **US. ACGIH Threshold Limit Values**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Potassium Iodide (CAS 7681-11-0)	TWA	0.01 ppm	Inhalable Form and vapor
Sodium Silicoaluminate (CAS 1344-00-9)	TWA	1 mg/m <sup>3</sup>	Respirable Fraction

### **US. NIOSH Pocket Guide to Chemical Hazards**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Sodium Silicoaluminate	TWA	2 mg/m <sup>3</sup>

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls** TWA PEL: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, OSHA (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 5mg/cu.m. Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total Dust 8-Hour TWA PEL.

TWA TLV: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): 10mg/cu.m. Inhalable Particulate 8-Hours TWA TLV, 3mg/cu.m. Respirable Particulate TWA TLV.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

## Individual protection measures, such as personal protective equipment

<b>Eye/face protection</b>	Wear safety glasses with side shields. Wear a full-face respirator, if needed.
<b>Skin protection</b>	
<b>Hand protection</b>	If there is constant skin contact, rubber gloves are recommended.
<b>Other</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and Chemical Properties

<b>Appearance</b>	White crystalline solid
<b>Physical State</b>	Solid
<b>Form</b>	Crystalline Solid
<b>Color</b>	White
<b>Odor</b>	Halogen odor
<b>Odor Threshold</b>	Not applicable
<b>pH in aqueous solution</b>	4-9
<b>Melting point/freezing point</b>	1473.8 °F (801 °C)
<b>Initial boiling point and boiling range</b>	2669 °F (1465 °C) (760 mm Hg)
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit – lower (%)</b>	Not applicable
<b>Flammability limit – upper (%)</b>	Not applicable
<b>Explosive limit – lower (%)</b>	Not applicable
<b>Explosive limit – upper (%)</b>	Not applicable
<b>Vapor pressure</b>	2.4 mm Hg (1376.6 °F (747 °C))
<b>Vapor density</b>	Not applicable
<b>Relative density</b>	2.16 (H <sub>2</sub> O = 1)
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	26.4%
<b>Partition coefficient (n-octanol/water)</b>	Not applicable
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	Not applicable
<b>Viscosity</b>	Not applicable
<b>Other information</b>	
<b>Bulk density</b>	53 – 83 lb/ft <sup>3</sup>
<b>Molecular formula</b>	NaCl, 14SiO <sub>2</sub> ·Al <sub>2</sub> O <sub>3</sub> ·Na <sub>2</sub> ·3H <sub>2</sub> O, NaHCO <sub>3</sub> , KI, Na <sub>4</sub> Fe(CN) <sub>6</sub> ·10H <sub>2</sub> O
<b>Molecular weight</b>	58.44, 1059.3, 84.0, 166.02, 484.06

## 10. Stability and Reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials, i.e. strong oxidizing agents.
<b>Incompatible materials</b>	Strong oxidizing agents, strong acids. Becomes corrosive to metals when wet.
<b>Hazardous decomposition products</b>	Chlorine gas, hydrogen chloride, oxides of sodium.

## 11. Toxicological Information

### Information on likely routes of exposure

<b>Ingestion</b>	Expected to be low ingestion hazard
<b>Inhalation</b>	High concentrations of dust may irritate throat and respiratory system and cause coughing.
<b>Skin contact</b>	Dust may irritate skin. May cause irritation through mechanical abrasion.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.

**Symptoms related to the physical, chemical and toxicological characteristics**  
Dust may cause eye, skin and respiratory tract irritation. Exposed individuals may experience eye tearing, redness and discomfort.

### Information on toxicological effects

**Acute toxicity**  
In some cases of confirmed hypertension, ingestion may result in elevated blood pressure. Ingestion of large amounts (greater than 0.1 pound) can cause gastrointestinal upset and irritation of the stomach. Rare cases of over exposure can lead to systemic toxicity related to the binding of ionized blood calcium.

<b>Product</b>	<b>Species</b>	<b>Test Results</b>
Sodium Chloride (CAS 7647-14-5)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Mouse	4000 mg/kg
	Rat	3000 mg/kg
<i>Other</i>		
LD50	Mouse	2602 mg/kg
Sodium Silicoaluminate (CAS 1344-00-9)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg, 24 hours
<i>Inhalation</i>		
	Rat	> 2.08 mg/l, 4 hours
Dextrose (CAS		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	25,800 mg/kg
Potassium Iodide		
<b>Acute</b>		
<i>Oral</i>		
LD50		500-5000 mg/kg
	Mouse	1000 mg/kg
	Rat	4340 mg/kg
<i>Other</i>		
LD50	Mouse	430 mg/kg
	Rat	> 285 mg/kg

Product	Species	Test Results
Sodium Bicarbonate (CAS 144-55-8)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	> 4000 mg/kg
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation	
<b>Serious eye damage/eye irritation</b>	Dust in the eyes will cause irritation	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not available	
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization	
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic	
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA	
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Specific target organ toxicity - single exposure</b>	Not classified	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified	
<b>Aspiration Hazard</b>	Due to the physical form of the product, it is not considered an aspiration hazard.	

## 12. Ecological Information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Sodium Chloride (CAS 7647-14-5)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 340.7 – 469.2 mg/l, 48 hours
Fish	LC50	Rainbow trout, Donaldson trout ( <i>Oncorhynchus mykiss</i> ) 4747 – 7824 mg/l, 96 hours
Sodium Aluminosilicate (CAS 1344-00-9)		
<b>Aquatic</b>		
Fish	LC50	Guppy ( <i>Poecilia reticulata</i> ) 1800 – 3200 mg/l, 96 hours
Potassium Iodide (CAS 7681-11-0)		
<b>Aquatic</b>		
Fish	LC50	Rainbow trout, Donaldson trout ( <i>Oncorhynchus mykiss</i> ) 896 mg/l, 96 hours
Sodium Bicarbonate (CAS 144-55-8)		
<b>Aquatic</b>		
Crustacea	EC50	Daphnia 2350 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> ) 8600 mg/l, 96 hours
<b>Persistence and degradability</b>	No data is available on the degradability of this product	
<b>Bioaccumulative potential</b>	No data available	
Partition coefficient n-octanol/water (log Kow)		
Dextrose (CAS 50-99-7)	-3.24	
<b>Mobility in soil</b>	No data available	
<b>Mobility in general</b>	No data available	
<b>Other Adverse effects</b>	None known	

### **13. Disposal Considerations**

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal Instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since Emptied containers may retain product residue, follow label warnings even after container is emptied.

### **14. Transport Information**

#### **U.S. Department of Transportation (DOT)**

Not regulated as dangerous goods.

#### **Transportation of Dangerous Goods (TDG – Canada)**

Not regulated as dangerous goods.

#### **IATA**

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not Applicable

### **15. Regulatory Information**

#### **US Federal Regulations**

All components are on the U.S. EPA TSCA Inventory List  
This product is not known to be a "hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated

#### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed

#### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated

#### **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPS) List**

Not regulated

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<b>Hazard Categories</b>	Immediate Hazard – No Delayed Hazard – No Fire Hazard – No Pressure Hazard – No Reactivity Hazard – No
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<b>SARA 302 Extremely Hazardous Substance</b>	No
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<b>SARA 311/312 Hazardous Chemical</b>	No
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<b>SARA 313 (TRI reporting)</b>	Not regulated
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#### **Other federal regulations**

<b>Safe Drinking Water Act (SDWA)</b>	Not regulated
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## US state regulations

### US Massachusetts RTK – Substance List

Not regulated

### US New Jersey Worker and Community Right-to Know Act

Not listed

### US Pennsylvania Worker and Community Right-to-Know Law

Sodium Silicoaluminate (CAS 1344-00-9)

### US Rhode Island RTK

Not regulated

### US California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### US – California Proposition 65 – Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

## International Inventories

<u>Country(s) or region</u>	<u>Inventory name</u>	<u>On inventory (Yes/No)*</u>
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ENCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or are exempt from listing on the inventory administered by the governing country(s)

## 16. Other Information, including date of preparation or last revision

<b>Issue Date</b>	01-March-2015
<b>Revision Date</b>	-
<b>Version #</b>	01

### Legend

Severe	4	<b>HMIS Ratings</b>	Health	1
Serious	3		Flammability	0
Moderate	2		Physical Hazard	0
Slight	1		Personal protection	A
Minimal	0	<b>NFPA Ratings</b>	Health	1
			Flammability	0
			Reactivity	0

### **Disclaimer**

The information contained herein was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the manufacturer's control, it is the users responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies may have specific regulations concerning the transportation, handling storage, use or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.



Safety Data Sheet:  
**Material Name: Elmer's  
Disappearing Purple Glue  
Stick**  
**SDS ID: SDS-89**  
Issue Date: 2015-04-22  
Revision: .

### Other Sections

[01](#) [02](#) [03](#) [04](#) [05](#) [06](#) [07](#) [08](#) [09](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#)

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## Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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### Material Name

Elmer's Disappearing Purple Glue Stick

### Synonyms

E1558, E1559, E1560, E1573, E1591, E238, E239, E310, E4051, E4053, E4055, E4057, E5007, E5009, E502, E503, E5042, E5051, E506, E508, E513, E514, E520, E522, E5223, E523, E524, E543, E546, E555, E558, E261, E562, E576, E578, E60520, E64051, E64523, 60320, 60554, 60555, 61576, 61592, 61665, 61667, 61668, 61669, 61715, 62428, 60307, 61665, 61666, 61669, 62428

### Product Use

Adhesive

### Restrictions on Use

None known

### Manufacturer Information

Elmer's Products, Inc  
460 Polaris Parkway, Suite 500  
Westerville, OH 43082  
USA  
Phone:1-888-435-6377  
Fax:1-800-741-6046  
Email:comments@elmers.com

Emergency Phone Number:  
Poison Control Center  
1-888-516-2502

For additional product information, access our website at [www.elmers.com](http://www.elmers.com). To place an order, call 1-800-848-9400.

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## Section 2 - HAZARDS IDENTIFICATION

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### Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

None needed according to classification criteria

### GHS Label Elements

#### Symbol(s)

None needed according to classification criteria

#### Signal Word

None needed according to classification criteria

#### Hazard Statement(s)

None needed according to classification criteria

#### Precautionary Statement(s)

#### Prevention

None needed according to classification criteria

#### Response

None needed according to classification criteria

#### Storage

None needed according to classification criteria

#### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations

#### Statement of Unknown Toxicity

100% of the mixture consists of ingredient(s) of unknown acute toxicity.

#### Other Hazards

No data available

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## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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CAS	Component Name	Percent
Not available	Non-hazardous substance	100

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## **Section 4 - FIRST AID MEASURES**

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### **Inhalation**

If adverse effects occur, remove to uncontaminated area. If discomfort persists, contact a physician.

### **Skin**

If on skin, wash immediately with plenty of soap and water. Get medical attention if irritation develops.

### **Eyes**

Remove contact lenses, if present and easy to do. IMMEDIATELY wash with large amounts of warm water, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.

### **Ingestion**

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious or convulsive person. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

### **Indication of any immediate medical attention and special treatment needed**

Treat symptomatically and supportively.

### **Most Important Symptoms/Effects**

#### **Acute**

No information on significant adverse effects.

#### **Delayed**

No information on significant adverse effects.

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## **Section 5 - FIRE FIGHTING MEASURES**

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### **Extinguishing Media**

#### **Suitable Extinguishing Media**

Use carbon dioxide, regular dry chemical, regular foam or water.

#### **Unsuitable Extinguishing Media**

None known.

### **Special Hazards Arising from the Chemical**

Slight fire hazard.

### **Hazardous Combustion Products**

oxides of carbon

### **Special Protective Equipment and Precautions for Firefighters**

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

### **Fire Fighting Measures**

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

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## **Section 6 - ACCIDENTAL RELEASE MEASURES**

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### **Personal Precautions, Protective Equipment and Emergency Procedures**

See Section 8 for Personal Protective Equipment recommendations.

### **Methods and Materials for Containment and Cleaning Up**

Stop leak if possible without personal risk. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

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## **Section 7 - HANDLING AND STORAGE**

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### **Precautions for Safe Handling**

Wash thoroughly after handling.

### **Conditions for Safe Storage, Including any Incompatibilities**

None needed according to classification criteria

Store in accordance with all current regulations and standards. Keep separated from incompatible substances.

### **Incompatible Materials**

oxidizing materials

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## **Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

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### **Component Exposure Limits**

ACGIH, NIOSH, EU, OSHA (US) and Mexico have not developed exposure limits for any of this product's components

### **Biological limit value**

There are no biological limit values for any of this product's components.

**Engineering Controls**

Based on available information, additional ventilation is not required. Ensure compliance with applicable exposure limits.

**Individual Protection Measures, such as Personal Protective Equipment****Eye/face protection**

Eye protection not required under normal conditions.

**Skin Protection**

Protective clothing is not required under normal conditions.

**Respiratory Protection**

No respirator is required under normal conditions of use.

**Glove Recommendations**

Protective gloves are not required under normal conditions.

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## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	purple solid	<b>Physical State</b>	solid
<b>Odor</b>	mild odor	<b>Color</b>	purple
<b>Odor Threshold</b>	Not available	<b>pH</b>	10.2 - 10.7
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	100 °C
<b>Freezing point</b>	0 °C	<b>Evaporation Rate</b>	Not available
<b>Boiling Point Range</b>	Not available	<b>Flammability (solid, gas)</b>	Non-Flammable
<b>Autoignition</b>	Not available	<b>Flash Point</b>	None
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition</b>	Not available
<b>Upper Explosive Limit</b>	Not available	<b>Vapor Pressure</b>	Not applicable
<b>Vapor Density (air=1)</b>	Not applicable	<b>Specific Gravity (water=1)</b>	1.01 - 1.02
<b>Water Solubility</b>	Miscible	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	Not available	<b>Solubility (Other)</b>	Not available
<b>Density</b>	8.4 - 8.5	<b>Physical Form</b>	solid

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## **Section 10 - STABILITY AND REACTIVITY**

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### **Reactivity**

Not known to occur.

### **Chemical Stability**

Stable at normal temperatures and pressure.

### **Possibility of Hazardous Reactions**

Will not polymerize.

### **Conditions to Avoid**

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

### **Incompatible Materials**

oxidizing materials

### **Hazardous decomposition products**

oxides of carbon

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## **Section 11 - TOXICOLOGICAL INFORMATION**

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### **Information on Likely Routes of Exposure**

#### **Inhalation**

No information on significant adverse effects.

#### **Skin Contact**

No information on significant adverse effects.

#### **Eye Contact**

No information on significant adverse effects.

#### **Ingestion**

No information on significant adverse effects.

### **Acute and Chronic Toxicity**

#### **Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and no selected endpoints have been identified

**Immediate Effects**

No information on significant adverse effects.

**Delayed Effects**

No information on significant adverse effects.

**Irritation/Corrosivity Data**

No information on significant adverse effects.

**Respiratory Sensitization**

No data available.

**Dermal Sensitization**

No data available.

**Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

**Germ Cell Mutagenicity**

No data available.

**Reproductive Toxicity**

No data available.

**Specific Target Organ Toxicity - Single Exposure**

No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

No data available.

**Aspiration hazard**

No data available.

**Medical Conditions Aggravated by Exposure**

None known.

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**Section 12 - ECOLOGICAL INFORMATION**

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**Component Analysis - Aquatic Toxicity**

No LOLI ecotoxicity data are available for this product's components

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**Section 13 - DISPOSAL CONSIDERATIONS**

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## Disposal Methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

## Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components

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## Section 14 - TRANSPORT INFORMATION

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### US DOT Information:

UN/NA #: Not regulated

### IATA Information:

UN#: Not regulated

### TDG Information:

UN#: Not regulated

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## Section 15 - REGULATORY INFORMATION

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### U.S. Federal Regulations

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

### SARA Section 311/312 (40 CFR 370 Subparts B and C)

**Acute Health:** No **Chronic Health:** No **Fire:** No **Pressure:** No **Reactivity:** No

### U.S. State Regulations

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA

### Not listed under California Proposition 65

### Canadian WHMIS Ingredient Disclosure List (IDL)

The components of this product are either not listed on the IDL or are present below the threshold limit listed on the IDL.

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## Section 16 - OTHER INFORMATION

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### NFPA Ratings

Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

### Summary of Changes

Updated SDS: 12/02/2014

## Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

## Other Information

### Disclaimer:

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.



# SAFETY DATA SHEET

## Section 1. Identification

<b>GHS product identifier</b>	: Elmer's School Glue
<b>Product code</b>	: E301, E304, E304LA, E304LALMR, E304NR, E308, E308LA, E308NR, E340, E340NR, E1304, 2024678, 2029187, 2051873, 2077067, 2089725, 2089733, 2121893, 6155060310, 6155060331, 6155060341, 60307W8, 6030Q, 60310Q
<b>Other means of identification</b>	: Elmer's Washable, No Run School Glue
<b>Product type</b>	: Liquid.

### Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

**Material uses** : Not available.

**Manufacturer** : Newell Brands, Inc.  
6655 Peachtree Dunwoody Road  
Sandy Springs, GA 30328  
USA  
800-323-0749

**Emergency telephone number (with hours of operation)** : CHEMTREC (U.S. and Canada) 1-800-424-9300  
CHEMTREC (Outside the U.S.) +1-703-527-0585

## Section 2. Hazards identification

**OSHA/HCS status** : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

**Classification of the substance or mixture** : Not classified.

Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 74.9%

Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 99.4%

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 99.4%

### GHS label elements

**Signal word** : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

### Precautionary statements

**General** : Read label before use. If medical advice is needed, have product container or label at hand.

**Prevention** : Not applicable.

**Response** : Not applicable.

**Storage** : Not applicable.

**Disposal** : Not applicable.

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture  
**Other means of identification** : Elmer's Washable, No Run School Glue

Ingredient name	%	CAS number
glycerol	≤3	56-81-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8).

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## Section 7. Handling and storage

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
glycerol	<p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</p> <p>TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Total dust</p> <p><b>OSHA PEL (United States, 5/2018).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</p> <p>TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust</p>

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### Appearance

Physical state	: Liquid.
Color	: White.
Odor	: Not available.
Odor threshold	: Not available.
pH	: 4.5 to 5.5
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Not available.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: Not available.
Solubility	: Not available.
Solubility in water	: Not available.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Flow time (ISO 2431)	: Not available.

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
glycerol	LD50 Oral	Rat	12600 mg/kg	-

#### Irritation/Corrosion

## Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

### Sensitization

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

## Section 11. Toxicological information

- General** : No known significant effects or critical hazards.  
**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
glycerol	12600	N/A	N/A	N/A	N/A

## Section 12. Ecological information

### Toxicity

Not available.

### Persistence and degradability

Not available.

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
glycerol	-1.76	-	low

### Mobility in soil

- Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

- Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

- Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

### Additional information

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : Not applicable.

#### Composition/information on ingredients

Name	%	Classification
glycerol	≤3	EYE IRRITATION - Category 2B

### State regulations

**Massachusetts** : The following components are listed: GLYCERINE MIST

## Section 15. Regulatory information

- New York** : None of the components are listed.
- New Jersey** : The following components are listed: GLYCERIN; 1,2,3-PROPANETRIOL
- Pennsylvania** : The following components are listed: 1,2,3-PROPANETRIOL
- California Prop. 65**

This product does not require a Safe Harbor warning under California Prop. 65.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

- Australia** : All components are listed or exempted.
- Canada** : All components are listed or exempted.
- China** : All components are listed or exempted.
- Europe** : All components are listed or exempted.
- Japan** : **Japan inventory (ENCS)**: All components are listed or exempted.  
**Japan inventory (ISHL)**: Not determined.
- New Zealand** : All components are listed or exempted.
- Philippines** : All components are listed or exempted.
- Republic of Korea** : All components are listed or exempted.
- Taiwan** : All components are listed or exempted.
- Thailand** : All components are listed or exempted.
- Turkey** : All components are listed or exempted.
- United States** : All components are listed or exempted.
- Viet Nam** : All components are listed or exempted.

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

Health	/	0
Flammability		0
Physical hazards		0

**Caution:** HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### National Fire Protection Association (U.S.A.)

## Section 16. Other information



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### Procedure used to derive the classification

Classification	Justification
Not classified.	

### History

**Date of printing** : 11/18/2020

**Date of issue/Date of revision** : 11/18/2020

**Date of previous issue** : 11/2/2020

**Version** : 4

### Key to abbreviations

: ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 N/A = Not available  
 SGG = Segregation Group  
 UN = United Nations

**References** : Not available.

☑ Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

## Section 1 Identification

Page E1 of E2

**INNOVATING SCIENCE**® by Aldon Corporation  
 "Cutting edge science for the classroom"  
 221 Rochester Street  
 Avon, NY 14414-9409  
 (585) 226-6177

**CHEMTREC 24 Hour Emergency**  
**Phone Number (800) 424-9300**  
 For laboratory and industrial use only.  
 Not for drug, food or household use.

Product	ISOPROPYL ALCOHOL
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Synonyms	2-Propanol ; Isopropanol
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## Section 2 Hazards identification

Signal word: DANGER

Pictograms: GHS02 / GHS07

Target organs: Central nervous system, Liver, Kidneys.



## GHS Classification:

Flammable liquid (Category 2)

Eye irritation (Category 2)

STOT-SE (Category 3)

## GHS Label information: Hazard statement(s):

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

## Precautionary statement(s):

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233: Keep container tightly closed.

P241: Use explosion-proof electrical/ventilating/lighting equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P261: Avoid breathing mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312: Call a POISON CENTER or doctor if you feel unwell.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical attention.

P370+P378: In case of fire: Use dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam to extinguish.

P403+P235: Store in a well-ventilated place. Keep cool.

P405: Store locked up.

P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

## Section 3 Composition / information on ingredients

Chemical Name	CAS #	%	EINECS
Isopropyl alcohol	67-63-0	100%	200-661-7

## Section 4 First aid measures

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** CAUSES SERIOUS EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire fighting measures

**Suitable Extinguishing Media:** Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly. Flame may not be visible in daylight.

## Section 6 Accidental release measures

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

**Section 7 Handling and storage**

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, well-ventilated area away from incompatible substances. Keep away from ignition sources.

**Section 8 Exposure controls / personal protection**

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Isopropanol	TWA: 200 ppm / STEL: 400 ppm	TWA: 400 ppm / 980 mg/m <sup>3</sup>	TWA: 400 ppm / STEL: 500 ppm

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

**Section 9 Physical and chemical properties**

<b>Appearance:</b> Clear, colorless liquid.	<b>Evaporation rate ( Butyl acetate = 1):</b> 2.3	<b>Partition coefficient: (n-octanol / water):</b> Log Pow: 0.05
<b>Odor:</b> Aromatic odor.	<b>Flammability (solid/gas):</b> Data not available.	<b>Auto-ignition temperature:</b> 399°C (750°F) ASTM-E659-78
<b>Odor threshold:</b> Data not available.	<b>Explosion limits: Lower / Upper:</b> 2% / 12%	<b>Decomposition temperature:</b> Data not available.
<b>pH:</b> Data not available.	<b>Vapor pressure (mm Hg):</b> 33 mm @20°C	<b>Viscosity:</b> Data not available.
<b>Melting / Freezing point:</b> -90°C (-130°F)	<b>Vapor density (Air = 1):</b> 2.1	<b>Molecular formula:</b> (CH <sub>3</sub> ) <sub>2</sub> CHOH
<b>Boiling point:</b> 82°C (179.6°F)	<b>Relative density (Specific gravity):</b> 0.786-0.79 @ 20°C	<b>Molecular weight:</b> 60.10
<b>Flash point:</b> 12°C (53°F) CC	<b>Solubility(ies):</b> Complete in water.	

**Section 10 Stability and reactivity**

**Chemical stability:** Stable **Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Excessive temperatures, heat, sparks, open flame and other sources of ignition.

**Incompatible materials:** Strong oxidizing materials, caustics, aluminums, metals, nitroform, oleum, chlorinated compounds can react vigorously with this alcohol.

**Hazardous decomposition products:** Carbon oxides.

**Section 11 Toxicological information**

**Acute toxicity:** Oral-rat LD50: 4396 mg/kg ; Inhalation-rat LC50: 72.6 mg/L/4 hours ; Dermal-rat LD50: 12,800 mg/kg

**Skin corrosion/irritation:** Skin-rabbit - Slight irritant.

**Serious eye damage/irritation:** Eyes-rabbit - Irritating.

**Respiratory or skin sensitization:** Not sensitizing

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**IARC classified:** Group 3: Not classifiable as to its carcinogenicity to humans

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Ca Prop 65:** This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Yes

**Potential health effects:**

**Inhalation:** Inhalation of high vapor concentrations may cause central nervous system depression resulting in dizziness, drowsiness, nausea, vomiting, inability to concentrate and irritation of the throat. Continued inhalation may result in unconsciousness and death.

**Ingestion:** Aspiration hazard. Liquid can directly enter the lungs (aspirated) when swallowed or vomited. Serious lung damage and possible fatal chemical pneumonia can develop if this occurs.

**Skin:** Prolonged or repeated contact may cause irritation and drying, cracking and defatting of the skin which can lead to dermatitis.

**Eyes:** Contact causes burning sensation, redness, swelling, and/or blurred vision.

**Signs and symptoms of exposure:** See Potential health effects above.

**Additional information:** RTECS #: NT8050000 [Isopropanol]

**Section 12 Ecological information**

**Toxicity to fish:** Pimephales promelas (Fish, fresh water) LC50: 9640 mg/L/96 hours [Isopropanol]

**Toxicity to daphnia and other aquatic invertebrates:** Artemia salina (Crustacea), EC50 = >10,000 mg/L/24 hours [Isopropanol]

**Toxicity to algae:** Scenedesmus quadricauda (Algae), LOEC50 = 1,800 mg/L/7 days [Isopropanol]

**Persistence and degradability:** No data available **Bioaccumulative potential:** No data available

**Mobility in soil:** No data available **PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Section 13 Disposal considerations**

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

**Section 14 Transport information**

**UN/NA number:** UN1219 **Shipping name:** Isopropanol

**Hazard class:** 3 **Packing group:** II

**Reportable Quantity:** No

**Marine pollutant:** No

**Exceptions:** Limited quantity equal to or less than 1 L

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**Section 15 Regulatory information**

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Isopropyl alcohol	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

**Section 16 Other information**

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

# SAFETY DATA SHEET



Issue date 11 May 2018

FM000066-00.3

This product is packaged for retail sale and intended for consumer use. The U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) does not apply to "consumer products" as defined by the U.S. Consumer Product Safety Act and Federal Hazardous Substances Act, including consumer products used in the workplace under typical duration and frequency of exposure as experienced by consumers when used for the intended purpose. This Safety Data Sheet (SDS) is provided as a courtesy to assist with proper use and safe handling. Applicable consumer product use and safety information is provided on the product label and is included for easy reference in Section 16 of this SDS. This SDS is designed to cover both U.S. and Canada. Differences between U.S. and Canadian requirements are noted where applicable.

## Section 1: Identification of Product and Company

Product Name	Purely Clean Dish Liquid & Hand Wash
Synonyms	None
Product Use	Hand Dishwashing, Personal Care
Restrictions on Use	Follow directions on the product label
Manufacturer Name Address	Seventh Generation, Inc. 60 Lake Street, Burlington, VT 05401, USA
Emergency Telephone Number Monday -Friday 8 am - 5 pm ET (except holidays) Outside these hours	U.S., Canada 1-800-211-4279 1-800-255-3924 (ChemTel)

## Section 2: Hazards Identification

Classification	
U.S.	This product is considered hazardous under the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).
Canada	This product is considered hazardous under the WHMIS 2015.

Hazard Category	
Eye Damage/Irritation	Category 2B

Signal Word	WARNING
-------------	---------

Hazard Statement(s)	Causes eye irritation
---------------------	-----------------------

Hazard Pictogram(s)	None
---------------------	------

Precautionary Statement(s) - General - Consumer Products	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.
--	---

Precautionary Statement(s) - Prevention	
---	--

# SAFETY DATA SHEET



Wash hands thoroughly after handling.

## Precautionary Statement(s) - Response

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

## Precautionary Statement(s) - Storage

None

## Precautionary Statement(s) - Disposal

None

## Hazards not otherwise identified

None known

## Percent ingredients with unknown acute toxicity

0% of the product consists of ingredients of unknown acute oral toxicity. Refer to Section 3.

## Section 3: Composition, Information on Ingredients

Regardless of hazard classification, Seventh Generation discloses all intentionally added ingredients and, if applicable incidental ingredients  $\geq 1\%$  on the consumer product label.

Ingredient	Function	CAS Number	Concentration <sup>1</sup>	LD50 <sup>2</sup>
aqua (water)	diluent	7732-18-5	30% - 100%	Not applicable
sodium lauryl sulfate	cleaning agent	68585-47-7	10% - 30%	1200 mg/kg
glycerin	foam stabilizer	56-81-5	1% - 3%	>12600 mg/kg
lauramine oxide	cleaning agent	70592-80-2	1% - 3%	>2000 mg/kg
decyl glucoside	cleaning agent	68515-73-1 & 110615-47-9	$\leq 1\%$	>2000 mg/kg
citric acid	viscosity modifier	77-92-9	$\leq 1\%$	5400 mg/kg
magnesium chloride	pH adjuster	7786-30-3/7791-18-6	$\leq 1\%$	>2000 mg/kg
essential oils & botanical extracts*	fragrance	mixture	$\leq 1\%$	>2000 mg/kg
benzisothiazolinone	preservative	2634-33-5	<0.1%	1020 mg/kg
methylisothiazolinone	preservative	2682-20-4	<0.1%	>100 mg/kg

\*Fresh Lemon & Tea Tree Scent: melaleuca alternifolia (tea tree) leaf oil, anthemis nobilis (chamomile) flower oil, citrus limon (lemon) peel oil, cymbopogon citratus (lemongrass) leaf oil, mentha viridis (spearmint) leaf oil. d-Limonene and citral are components of these essential oils.

<sup>1</sup> Where ranges are shown, the exact concentration has been withheld as a trade secret.

<sup>2</sup> LD50 Acute oral toxicity (rat) – This is a value provided by the raw material supplier or scientific literature. It is not a value generated by Seventh Generation by testing using rats. Seventh Generation uses alternative, non-animal based methods and scientific literature to determine the safety classification of our products and their ingredients.

## Section 4: First Aid Measures

<b>Eye Contact</b>	Flush eyes with water immediately after contact. Call a physician if irritation develops or persists.
<b>Skin Contact</b>	Rinse thoroughly with water. Call a physician if irritation or rash develops or persists.
<b>Ingestion</b>	Drink 4-8 ounces of water or milk immediately. If prolonged nausea or pain occurs call a doctor.

# SAFETY DATA SHEET



Inhalation	If irritation occurs, remove to fresh air. If breathing is affected, call a physician.
Notes to Physician	Treat symptomatically.
Most important symptoms and effects	Acute exposure may result in eye irritation.

## Section 5: Fire Fighting Measures

Suitable Extinguishing Media	As appropriate for surrounding fire. Use water, dry chemical, carbon dioxide or foam.
Unsuitable Extinguishing Media	Not available.
Specific Hazards arising from the chemical mixture	Not available.
Hazardous Combustion Products	Not available.
Protective Equipment and Precautions for Firefighters	Fire fighters should wear full protective clothing and self contained breathing apparatus as for surrounding fire.

## Section 6: Accidental Release Measures

Personal Precautions	
Industrial Setting	Wear appropriate personal protective equipment (refer to Section 8).
Environmental Precautions	Avoid entry into lakes, streams, ponds or public waterways.
Methods for Containment and Cleaning Up	
Household Setting	Small spills and leaks may be cleaned up and disposed of in normal household trash or diluted and disposed of via sewer.
Industrial Setting	Before attempting clean up, refer to hazard data given. Material may be slippery if spilled and wet. Prevent spill from entering a waterway. Stop spill at source and contain material. Dispose liquid in accordance with all applicable local, state, and federal regulations.

## Section 7: Handling and Storage

Safe Handling	
Household Setting	Use as directed on product label.
Industrial Setting	Wear appropriate personal protective equipment (refer to section 8).
Safe Storage	KEEP OUT OF REACH OF CHILDREN AND PETS. Store in original container and keep container closed when not in use. Avoid freezing.
Storage Incompatibilities	None known.

## Section 8: Exposure Controls, Personal Protection

Exposure Limits	None known.
Engineering Controls	Not applicable.
Personal Protective Equipment (PPE)	
Household Setting	No special precautions necessary as long as product is used as directed.
Industrial Setting	
Respiratory Protection	None required under normal conditions. General ventilation required.
Eye Protection	Goggles or other protective eye wear may be worn for protection.
Skin Protection	Gloves may be worn for protection.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

## Section 9: Physical and Chemical Properties

# SAFETY DATA SHEET



Physical State	Liquid.
Color	Colorless (water-white)
Clarity	Clear
Odor	Fragranced. Characteristic of the ingredients
Odor Threshold	Not available.

pH	7.9 - 8.1
Melting Point	Not available.
Freezing Point	Not available.
Initial Boiling Point and Boiling Range	Not available.
Flash Point	Not available. Aqueous Solution.
Evaporation Rate	Not available.
Upper Explosive Limit (UEL)	Not applicable.
Lower Explosive Limit (LEL)	Not applicable.
Vapor Pressure (mmHg)	Not available.
Specific Gravity (H <sub>2</sub> O = 1)	1.01 - 1.04
Relative Density	Not available.
Vapor Density (Air = 1)	Not available.
Solubility in Water	Miscible
Partition Coefficient: n-octanol/water	Not available.
Viscosity	Not available.
VOC (weight %)	Not available.

## Section 10: Stability and Reactivity

Reactivity	None known.
Chemical Stability	Stable under normal conditions of use and storage.
Possibility of Hazardous Reactions	None known.
Conditions to Avoid	None known.
Incompatible Materials	
Household Setting	In general, cleaning products should not be mixed with other household chemicals, unless specifically provided for in the use directions.
Industrial Setting	None known.
Hazardous Decomposition Products	None known.

## Section 11: Toxicological Information

Potential Route(s) of Exposure	Eyes. Skin. Ingestion.
Effects of Acute Exposure	
Oral Toxicity	LD50 >5000 mg/kg, calculated based on ingredients.
Dermal Toxicity	Not determined.
Inhalation Toxicity	Not determined.
Eye Contact	Mild Irritant, based on in-vitro data.
Skin Contact	Not classified for skin irritation, based on in-vitro data. Possible irritation from prolonged contact with the undiluted product.
Component Information	Refer to section 3 for ingredient LD50 (acute oral).
Skin Sensitization	Not classified for skin sensitization, based on ingredients.
Respiratory Sensitization	Not classified for respiratory sensitization, based on ingredients.
Carcinogenicity	Not classified - based on ingredients
NTP	No Ingredients Listed
IARC	No Ingredients Listed

# SAFETY DATA SHEET




OSHA	No Ingredients Listed
Reproductive Effects	Not classified - based on ingredients
Mutagenicity	Not classified - based on ingredients
Specific Target Organ Toxicity - Single Exposure	Not classified - based on ingredients
Specific Target Organ Toxicity - Repeat Exposure	Not classified - based on ingredients
Aspiration Toxicity	Not classified - based on ingredients

## Section 12: Ecological Information

Ecotoxicity	Not available.
Persistence and Degradability	This product is biodegradable, based on OECD 301B.
Bioaccumulative Potential	Not applicable.
Mobility in Soil	Not available.
Environmental Fate	No adverse effects expected.

## Section 13: Disposal Considerations

Product Waste	Any disposal must be in compliance with applicable local, state, provincial and federal laws and regulations.
Household Setting	Product residues in the bottle may be discarded in trash, or diluted with water and disposed via sewer. When used as directed, the product is septic-safe.
Industrial Setting	When disposed as waste in its original form, this product is not considered hazardous waste under Federal regulations, however regulations may vary by state or province and may designate it as hazardous waste. Check with your local waste and waste water authorities. We are aware of the following state waste classifications:
California Hazardous Waste Code	561
Connecticut Hazardous Waste Code	CT04
Michigan Liquid Waste Code	029L
Washington Hazardous Waste Code	WT02
Empty Packaging	Offer empty container for recycling. If recycling is not available, discard in trash. 

## Section 14: Transport Information

U.S. DOT	Not regulated.
U.S. States	See U.S. DOT for finished product classification for transport.
Waste	Regulated in some states if the product is disposed of in its original form as waste by commercial users/handlers. Refer to Section 13. for applicable state waste codes.
Canadian TDG (Surface Transport)	Not regulated.
IMDG (Marine Transport)	Not regulated.
IATA (Air Transport)	Not regulated.

## Section 15: Regulatory Information

## 1. Product and Company Identification

**Product Identifier** Iodized Salt

**Other means of identification  
Synonyms** Superior Iodized Table Salt  
Private Label Brand Iodized Table Salt  
Superior TX-10 Iodized Salt

**Recommended Use** Food applications

**Recommended Restrictions** None Known

**Manufacturer** US Salt LLC  
3580 Salt Point Road  
Watkins Glen, NY 14891  
Phone: 607-535-2721

**Emergency Telephone Number** CHEMTREC (800) 424-9300

## 2. Hazard(s) Identification

**Physical Hazards** Not Classified

**Health Hazards** Not Classified

**Environmental Hazards** Not Classified

**OSHA Defined Hazards** Not Classified

**Label Elements**

**Hazard Symbol** None

**Signal Word** None

**Hazard Statement** The product does not meet the criteria for classification

**Precautionary Statement**

**Prevention** Observe good industrial hygiene practices

**Response** Wash hands after handling

**Storage** Store away from incompatible materials

**Disposal** Dispose of waste and residues in accordance with local authority requirements

**Hazard(s) not otherwise  
Classified (HNOC)** None Known

## 3. Composition / Information on Ingredients

### Salt and/or Salt Mixtures

Chemical Name	CAS #	%
Sodium Chloride	7647-14-5	99.0-99.7
Sodium Silicoaluminate	1344-00-9	< 0.70
Dextrose	50-99-7	0.02-0.03
Sodium Bicarbonate	144-55-8	0.00-0.01
Potassium Iodide	7681-11-0	0.006-0.010
Sodium Ferrocyanide	13601-19-9	0.00-0.0013

GRAS Substance (Generally Recognized as Safe)

## 4. First Aid Measures

**Inhalation** Avoid breathing dust. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

**Skin Contact** Wash skin with soap and water. Get medical attention if irritation develops and persists.

**Eye Contact** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Give one or two glasses of water if person is alert and able to swallow. Get medical attention if symptoms occur.

**Most important  
symptoms/effects, acute and  
delayed** Direct contact with eyes may cause temporary irritation.

**Indication of immediate  
medical attention and special  
Treatment needed** Treat symptomatically

## 5. Fire Fighting Measures

<b>Suitable extinguishing media</b>	Salt and salt mixtures are non-combustible
<b>Unsuitable extinguishing media</b>	Not Applicable
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Use appropriate firefighting PPE as a general precaution.
<b>Fire-fighting equipment/instructions</b>	Salt is not combustible and is thus not the material of concern for firefighting equipment or methods.
<b>Specific methods</b>	In the event of a fire, equipment and methods that are consistent with the combusting material should be used.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

## 6. Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Avoid generation and spreading of dust. Avoid inhalation of dust and contact with skin and eyes. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Stop the flow of material, if this is without risk. If sweeping of a contaminated area is necessary, use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Avoid release to the environment. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid discharge into storm drains or sanitary sewers, groundwater or soil.

## 7. Handling and Storage

<b>Precautions for safe handling</b>	Use work methods which minimize dust production. Provide appropriate exhaust ventilation at places where dust is formed. Avoid inhalation of dust and contact with skin and eyes. Wash thoroughly after handling. Keep away from strong acids. Practice good housekeeping.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in closed original container in a dry place. Store away from incompatible materials (see section 10 of the SDS). Becomes hygroscopic at 70-75% relative humidity. Avoid humid or wet conditions as product will cake and become hard.

## 8. Exposure Controls / Personal Protection

**Occupational exposure limits** No exposures limits noted for ingredient(s).

### **US. ACGIH Threshold Limit Values**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Potassium Iodide (CAS 7681-11-0)	TWA	0.01 ppm	Inhalable Form and vapor
Sodium Silicoaluminate (CAS 1344-00-9)	TWA	1 mg/m <sup>3</sup>	Respirable Fraction

### **US. NIOSH Pocket Guide to Chemical Hazards**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Sodium Silicoaluminate	TWA	2 mg/m <sup>3</sup>

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**

TWA PEL: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, OSHA (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 5mg/cu.m. Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total Dust 8-Hour TWA PEL.

TWA TLV: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): 10mg/cu.m. Inhalable Particulate 8-Hours TWA TLV, 3mg/cu.m. Respirable Particulate TWA TLV.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

## Individual protection measures, such as personal protective equipment

<b>Eye/face protection</b>	Wear safety glasses with side shields. Wear a full-face respirator, if needed.
<b>Skin protection</b>	
<b>Hand protection</b>	If there is constant skin contact, rubber gloves are recommended.
<b>Other</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and Chemical Properties

<b>Appearance</b>	White crystalline solid
<b>Physical State</b>	Solid
<b>Form</b>	Crystalline Solid
<b>Color</b>	White
<b>Odor</b>	Halogen odor
<b>Odor Threshold</b>	Not applicable
<b>pH in aqueous solution</b>	4-9
<b>Melting point/freezing point</b>	1473.8 °F (801 °C)
<b>Initial boiling point and boiling range</b>	2669 °F (1465 °C) (760 mm Hg)
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit – lower (%)</b>	Not applicable
<b>Flammability limit – upper (%)</b>	Not applicable
<b>Explosive limit – lower (%)</b>	Not applicable
<b>Explosive limit – upper (%)</b>	Not applicable
<b>Vapor pressure</b>	2.4 mm Hg (1376.6 °F (747 °C))
<b>Vapor density</b>	Not applicable
<b>Relative density</b>	2.16 (H <sub>2</sub> O = 1)
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	26.4%
<b>Partition coefficient (n-octanol/water)</b>	Not applicable
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	Not applicable
<b>Viscosity</b>	Not applicable
<b>Other information</b>	
<b>Bulk density</b>	53 – 83 lb/ft <sup>3</sup>
<b>Molecular formula</b>	NaCl, 14SiO <sub>2</sub> ·Al <sub>2</sub> O <sub>3</sub> ·Na <sub>2</sub> ·3H <sub>2</sub> O, NaHCO <sub>3</sub> , KI, Na <sub>4</sub> Fe(CN) <sub>6</sub> ·10H <sub>2</sub> O
<b>Molecular weight</b>	58.44, 1059.3, 84.0, 166.02, 484.06

## 10. Stability and Reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials, i.e. strong oxidizing agents.
<b>Incompatible materials</b>	Strong oxidizing agents, strong acids. Becomes corrosive to metals when wet.
<b>Hazardous decomposition products</b>	Chlorine gas, hydrogen chloride, oxides of sodium.

## 11. Toxicological Information

### Information on likely routes of exposure

<b>Ingestion</b>	Expected to be low ingestion hazard
<b>Inhalation</b>	High concentrations of dust may irritate throat and respiratory system and cause coughing.
<b>Skin contact</b>	Dust may irritate skin. May cause irritation through mechanical abrasion.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.

**Symptoms related to the physical, chemical and toxicological characteristics**  
Dust may cause eye, skin and respiratory tract irritation. Exposed individuals may experience eye tearing, redness and discomfort.

### Information on toxicological effects

**Acute toxicity**  
In some cases of confirmed hypertension, ingestion may result in elevated blood pressure. Ingestion of large amounts (greater than 0.1 pound) can cause gastrointestinal upset and irritation of the stomach. Rare cases of over exposure can lead to systemic toxicity related to the binding of ionized blood calcium.

<b>Product</b>	<b>Species</b>	<b>Test Results</b>
Sodium Chloride (CAS 7647-14-5)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Mouse	4000 mg/kg
	Rat	3000 mg/kg
<i>Other</i>		
LD50	Mouse	2602 mg/kg
Sodium Silicoaluminate (CAS 1344-00-9)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg, 24 hours
<i>Inhalation</i>		
	Rat	> 2.08 mg/l, 4 hours
Dextrose (CAS		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	25,800 mg/kg
Potassium Iodide		
<b>Acute</b>		
<i>Oral</i>		
LD50		500-5000 mg/kg
	Mouse	1000 mg/kg
	Rat	4340 mg/kg
<i>Other</i>		
LD50	Mouse	430 mg/kg
	Rat	> 285 mg/kg

Product	Species	Test Results
Sodium Bicarbonate (CAS 144-55-8)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	> 4000 mg/kg
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation	
<b>Serious eye damage/eye irritation</b>	Dust in the eyes will cause irritation	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not available	
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization	
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic	
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA	
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Specific target organ toxicity - single exposure</b>	Not classified	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified	
<b>Aspiration Hazard</b>	Due to the physical form of the product, it is not considered an aspiration hazard.	

## 12. Ecological Information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Sodium Chloride (CAS 7647-14-5)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 340.7 – 469.2 mg/l, 48 hours
Fish	LC50	Rainbow trout, Donaldson trout ( <i>Oncorhynchus mykiss</i> ) 4747 – 7824 mg/l, 96 hours
Sodium Aluminosilicate (CAS 1344-00-9)		
<b>Aquatic</b>		
Fish	LC50	Guppy ( <i>Poecilia reticulata</i> ) 1800 – 3200 mg/l, 96 hours
Potassium Iodide (CAS 7681-11-0)		
<b>Aquatic</b>		
Fish	LC50	Rainbow trout, Donaldson trout ( <i>Oncorhynchus mykiss</i> ) 896 mg/l, 96 hours
Sodium Bicarbonate (CAS 144-55-8)		
<b>Aquatic</b>		
Crustacea	EC50	Daphnia 2350 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> ) 8600 mg/l, 96 hours
<b>Persistence and degradability</b>	No data is available on the degradability of this product	
<b>Bioaccumulative potential</b>	No data available	
Partition coefficient n-octanol/water (log Kow)		
Dextrose (CAS 50-99-7)	-3.24	
<b>Mobility in soil</b>	No data available	
<b>Mobility in general</b>	No data available	
<b>Other Adverse effects</b>	None known	

### **13. Disposal Considerations**

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal Instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since Emptied containers may retain product residue, follow label warnings even after container is emptied.

### **14. Transport Information**

#### **U.S. Department of Transportation (DOT)**

Not regulated as dangerous goods.

#### **Transportation of Dangerous Goods (TDG – Canada)**

Not regulated as dangerous goods.

#### **IATA**

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not Applicable

### **15. Regulatory Information**

#### **US Federal Regulations**

All components are on the U.S. EPA TSCA Inventory List  
This product is not known to be a "hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated

#### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed

#### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated

#### **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPS) List**

Not regulated

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<b>Hazard Categories</b>	Immediate Hazard – No Delayed Hazard – No Fire Hazard – No Pressure Hazard – No Reactivity Hazard – No
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<b>SARA 302 Extremely Hazardous Substance</b>	No
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<b>SARA 311/312 Hazardous Chemical</b>	No
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<b>SARA 313 (TRI reporting)</b>	Not regulated
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#### **Other federal regulations**

<b>Safe Drinking Water Act (SDWA)</b>	Not regulated
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## US state regulations

### US Massachusetts RTK – Substance List

Not regulated

### US New Jersey Worker and Community Right-to Know Act

Not listed

### US Pennsylvania Worker and Community Right-to-Know Law

Sodium Silicoaluminate (CAS 1344-00-9)

### US Rhode Island RTK

Not regulated

### US California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### US – California Proposition 65 – Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

## International Inventories

<u>Country(s) or region</u>	<u>Inventory name</u>	<u>On inventory (Yes/No)*</u>
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ENCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or are exempt from listing on the inventory administered by the governing country(s)

## 16. Other Information, including date of preparation or last revision

<b>Issue Date</b>	01-March-2015
<b>Revision Date</b>	-
<b>Version #</b>	01

### Legend

		<b>HMIS Ratings</b>	Health	1
			Flammability	0
Severe	4		Physical Hazard	0
Serious	3		Personal protection	A
Moderate	2			
Slight	1	<b>NFPA Ratings</b>	Health	1
Minimal	0		Flammability	0
			Reactivity	0

### **Disclaimer**

The information contained herein was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the manufacturer's control, it is the users responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies may have specific regulations concerning the transportation, handling storage, use or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.

# SAFETY DATA SHEET



<b>U.S.</b>	
<b>Toxic Substances Control Act (TSCA)</b>	This product complies with the inventory requirements of the U.S. Toxic Substances Control Act (TSCA).
<b>California Prop 65</b>	This product is not subject to the labeling requirements of California's Proposition 65.
<b>California Air Resources Board (CARB)</b>	Not applicable.
<b>Canada</b>	
<b>Domestic Substances List (DSL)</b>	This product complies with the inventory requirements under Canada's Domestic Substances List (DSL).
<b>Right to Know</b>	Regardless of hazard classification, Seventh Generation discloses all intentionally added ingredients and, if applicable incidental ingredients $\geq 1\%$ on the product label. Please refer to Section 3. of this SDS for ingredient listing.
<b>Other</b>	Fragrances used in this product comply with applicable International Fragrance Association (IFRA) guidance.

## Section 16: Other Information

<b>Hazardous Materials Identification System (HMIS) Rating</b>  Legend: 4-Severe, 3-Serious, 2-Moderate, 1-Slight, 0-Minimal	<b>HEALTH</b>	<b>1</b>
	<b>FLAMMABILITY</b>	<b>0</b>
	<b>PHYSICAL HAZARDS</b>	<b>0</b>
	<b>PERSONAL PROTECTION</b>	<b>A</b>

<b>National Fire Protection Association (NFPA) Rating</b>	Not determined.
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## Consumer Product Label Information

**HOW TO USE**  
 When used as a hand wash to wash away bacteria from hands, lather and scrub for 20 seconds and rinse thoroughly with clean running water.

When used as a dish liquid to wash dishes, dispense into sink or directly onto sponge, wash dishes and rinse thoroughly. NOT FOR USE IN AUTOMATIC DISHWASHERS.

KEEP OUT OF REACH OF CHILDREN. If product gets into eyes, flush thoroughly with water. If swallowed, drink plenty of water.

<b>Prepared by</b>	Seventh Generation Inc.
<b>Issuing Date</b>	11 May 2018
<b>Revision Date</b>	11 May 2018
<b>Revision Note</b>	Revised Section 3.

**Please note:** This product is manufactured and marketed for consumer use and should be used as directed on the product label for the intended purpose. Seventh Generation warrants that this product conforms to our standard specification when released to the market and when used according to directions. To the best of our knowledge, the information contained herein is accurate. However, we do not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any product is the sole responsibility of the user. All products may present unknown hazards and should be used with requisite caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Other abbreviations used in this document:

- DOT – (U.S.) Department of Transportation
- EPA – (U.S.) Environmental Protection Agency
- IARC – International Agency for Research on Cancer

# SAFETY DATA SHEET



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NTP – (U.S. Department of Health and Human Services) National Toxicology Program

OSHA – (U.S.) Occupational Safety and Health Administration

TDG – (Canadian) Transport of Dangerous Goods

WHMIS – (Canadian) Workplace Hazardous Materials Information System

**End of Safety Data Sheet**



Safety Data Sheet:  
**Material Name: Elmer's  
Disappearing Purple Glue  
Stick**  
**SDS ID: SDS-89**  
Issue Date: 2015-04-22  
Revision: .

### Other Sections

[01](#) [02](#) [03](#) [04](#) [05](#) [06](#) [07](#) [08](#) [09](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#)

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## Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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### Material Name

Elmer's Disappearing Purple Glue Stick

### Synonyms

E1558, E1559, E1560, E1573, E1591, E238, E239, E310, E4051, E4053, E4055, E4057, E5007, E5009, E502, E503, E5042, E5051, E506, E508, E513, E514, E520, E522, E5223, E523, E524, E543, E546, E555, E558, E261, E562, E576, E578, E60520, E64051, E64523, 60320, 60554, 60555, 61576, 61592, 61665, 61667, 61668, 61669, 61715, 62428, 60307, 61665, 61666, 61669, 62428

### Product Use

Adhesive

### Restrictions on Use

None known

### Manufacturer Information

Elmer's Products, Inc  
460 Polaris Parkway, Suite 500  
Westerville, OH 43082  
USA  
Phone:1-888-435-6377  
Fax:1-800-741-6046  
Email:comments@elmers.com

Emergency Phone Number:  
Poison Control Center  
1-888-516-2502

For additional product information, access our website at [www.elmers.com](http://www.elmers.com). To place an order, call 1-800-848-9400.

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## Section 2 - HAZARDS IDENTIFICATION

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### Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

None needed according to classification criteria

### GHS Label Elements

#### Symbol(s)

None needed according to classification criteria

#### Signal Word

None needed according to classification criteria

#### Hazard Statement(s)

None needed according to classification criteria

#### Precautionary Statement(s)

#### Prevention

None needed according to classification criteria

#### Response

None needed according to classification criteria

#### Storage

None needed according to classification criteria

#### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations

#### Statement of Unknown Toxicity

100% of the mixture consists of ingredient(s) of unknown acute toxicity.

#### Other Hazards

No data available

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## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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CAS	Component Name	Percent
Not available	Non-hazardous substance	100

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## **Section 4 - FIRST AID MEASURES**

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### **Inhalation**

If adverse effects occur, remove to uncontaminated area. If discomfort persists, contact a physician.

### **Skin**

If on skin, wash immediately with plenty of soap and water. Get medical attention if irritation develops.

### **Eyes**

Remove contact lenses, if present and easy to do. IMMEDIATELY wash with large amounts of warm water, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.

### **Ingestion**

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious or convulsive person. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

### **Indication of any immediate medical attention and special treatment needed**

Treat symptomatically and supportively.

### **Most Important Symptoms/Effects**

#### **Acute**

No information on significant adverse effects.

#### **Delayed**

No information on significant adverse effects.

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## **Section 5 - FIRE FIGHTING MEASURES**

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### **Extinguishing Media**

#### **Suitable Extinguishing Media**

Use carbon dioxide, regular dry chemical, regular foam or water.

#### **Unsuitable Extinguishing Media**

None known.

### **Special Hazards Arising from the Chemical**

Slight fire hazard.

### **Hazardous Combustion Products**

oxides of carbon

### **Special Protective Equipment and Precautions for Firefighters**

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

### **Fire Fighting Measures**

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

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## **Section 6 - ACCIDENTAL RELEASE MEASURES**

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### **Personal Precautions, Protective Equipment and Emergency Procedures**

See Section 8 for Personal Protective Equipment recommendations.

### **Methods and Materials for Containment and Cleaning Up**

Stop leak if possible without personal risk. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

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## **Section 7 - HANDLING AND STORAGE**

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### **Precautions for Safe Handling**

Wash thoroughly after handling.

### **Conditions for Safe Storage, Including any Incompatibilities**

None needed according to classification criteria

Store in accordance with all current regulations and standards. Keep separated from incompatible substances.

### **Incompatible Materials**

oxidizing materials

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## **Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

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### **Component Exposure Limits**

ACGIH, NIOSH, EU, OSHA (US) and Mexico have not developed exposure limits for any of this product's components

### **Biological limit value**

There are no biological limit values for any of this product's components.

**Engineering Controls**

Based on available information, additional ventilation is not required. Ensure compliance with applicable exposure limits.

**Individual Protection Measures, such as Personal Protective Equipment****Eye/face protection**

Eye protection not required under normal conditions.

**Skin Protection**

Protective clothing is not required under normal conditions.

**Respiratory Protection**

No respirator is required under normal conditions of use.

**Glove Recommendations**

Protective gloves are not required under normal conditions.

**Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	purple solid	<b>Physical State</b>	solid
<b>Odor</b>	mild odor	<b>Color</b>	purple
<b>Odor Threshold</b>	Not available	<b>pH</b>	10.2 - 10.7
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	100 °C
<b>Freezing point</b>	0 °C	<b>Evaporation Rate</b>	Not available
<b>Boiling Point Range</b>	Not available	<b>Flammability (solid, gas)</b>	Non-Flammable
<b>Autoignition</b>	Not available	<b>Flash Point</b>	None
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition</b>	Not available
<b>Upper Explosive Limit</b>	Not available	<b>Vapor Pressure</b>	Not applicable
<b>Vapor Density (air=1)</b>	Not applicable	<b>Specific Gravity (water=1)</b>	1.01 - 1.02
<b>Water Solubility</b>	Miscible	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	Not available	<b>Solubility (Other)</b>	Not available
<b>Density</b>	8.4 - 8.5	<b>Physical Form</b>	solid

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## **Section 10 - STABILITY AND REACTIVITY**

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### **Reactivity**

Not known to occur.

### **Chemical Stability**

Stable at normal temperatures and pressure.

### **Possibility of Hazardous Reactions**

Will not polymerize.

### **Conditions to Avoid**

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

### **Incompatible Materials**

oxidizing materials

### **Hazardous decomposition products**

oxides of carbon

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## **Section 11 - TOXICOLOGICAL INFORMATION**

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### **Information on Likely Routes of Exposure**

#### **Inhalation**

No information on significant adverse effects.

#### **Skin Contact**

No information on significant adverse effects.

#### **Eye Contact**

No information on significant adverse effects.

#### **Ingestion**

No information on significant adverse effects.

### **Acute and Chronic Toxicity**

#### **Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and no selected endpoints have been identified

**Immediate Effects**

No information on significant adverse effects.

**Delayed Effects**

No information on significant adverse effects.

**Irritation/Corrosivity Data**

No information on significant adverse effects.

**Respiratory Sensitization**

No data available.

**Dermal Sensitization**

No data available.

**Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

**Germ Cell Mutagenicity**

No data available.

**Reproductive Toxicity**

No data available.

**Specific Target Organ Toxicity - Single Exposure**

No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

No data available.

**Aspiration hazard**

No data available.

**Medical Conditions Aggravated by Exposure**

None known.

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**Section 12 - ECOLOGICAL INFORMATION**

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**Component Analysis - Aquatic Toxicity**

No LOLI ecotoxicity data are available for this product's components

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**Section 13 - DISPOSAL CONSIDERATIONS**

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**Disposal Methods**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Component Waste Numbers**

The U.S. EPA has not published waste numbers for this product's components

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**Section 14 - TRANSPORT INFORMATION**

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**US DOT Information:**

UN/NA #: Not regulated

**IATA Information:**

UN#: Not regulated

**TDG Information:**

UN#: Not regulated

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**Section 15 - REGULATORY INFORMATION**

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**U.S. Federal Regulations**

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

**SARA Section 311/312 (40 CFR 370 Subparts B and C)**

**Acute Health:** No **Chronic Health:** No **Fire:** No **Pressure:** No **Reactivity:** No

**U.S. State Regulations**

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA

**Not listed under California Proposition 65****Canadian WHMIS Ingredient Disclosure List (IDL)**

The components of this product are either not listed on the IDL or are present below the threshold limit listed on the IDL.

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**Section 16 - OTHER INFORMATION**

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**NFPA Ratings**

Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**Summary of Changes**

Updated SDS: 12/02/2014

## **Key / Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

## **Other Information**

### **Disclaimer:**

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.



First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

#### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

1020 – Blue Liquid Color	
ACGIH	Not applicable
OSHA	Not applicable

### 8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear eye protection and protective gloves. protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Refer to specification sheet
Odor	: characteristic
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 200 °F
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.017
Solubility	: Miscible with water. Water: N/A
Log Pow	: No data available
Log K <sub>ow</sub>	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

**10.2. Chemical stability**

Not established.

**10.3. Possibility of hazardous reactions**

Not established.

**10.4. Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

**10.5. Incompatible materials**

Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

fume. Carbon monoxide. Carbon dioxide.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Acute toxicity : Not classified

<b>Proprietary Flavor Ingredient - p322</b>	
LD50 oral rat	20000 mg/kg (Rat; Experimental value)
LD50 dermal rat	22500 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	20800 mg/kg (Rabbit; Experimental value)
ATE US (oral)	20000.000 mg/kg body weight
ATE US (dermal)	20800.000 mg/kg body weight

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

**12.1. Toxicity**

No additional information available

**12.2. Persistence and degradability**

<b>1020 - Blue Liquid Color</b>	
Persistence and degradability	Not established.

**12.3. Bioaccumulative potential**

<b>1020 - Blue Liquid Color</b>	
Bioaccumulative potential	Not established.

**12.4. Mobility in soil**

No additional information available

## 12.5. Other adverse effects

Effect on ozone layer :  
Effect on the global warming : No known ecological damage caused by this product.  
Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT  
Not regulated for transport  
**Additional information**  
Other information : No supplementary information available.

### ADR

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Proprietary Flavor Ingredient - p322

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

#### 15.2.2. National regulations

### 15.3. US State regulations

#### Proprietary Flavor Ingredient - p322

U.S. - New Jersey - Right to Know Hazardous Substance List

Section 1 Identification

**INNOVATING SCIENCE**® by Aldon  
 "Cutting edge science for the classroom"

221 Rochester Street  
 Avon, NY 14414-9409  
 (585) 226-6177

**CHEMTREC 24 Hour Emergency**  
**Phone Number (800) 424-9300**  
 For laboratory and industrial use only.  
 Not for drug, food or household use.

Product | UNIVERSAL PH INDICATOR

Synonyms | Universal Indicator

Section 2 Hazards Identification

Signal word: DANGER  
 Pictograms: GHS02 / GHS08 / GHS06  
 Target organs: Eyes, Central nervous system, Liver, Kidneys.



**GHS Classification:**  
 Flammable liquid (Category 2)  
 Acute toxicity, inhalation (Category 3)  
 Skin irritation (Category 2)  
 Eye irritation (Category 2B)  
 STOT-SE (Category 2)  
 STOT-SE (Category 3)

**GHS Label information: Hazard statement:**  
 H225: Highly flammable liquid and vapour.  
 H315: Causes skin irritation.  
 H319: Causes serious eye irritation.  
 H331: Toxic if inhaled.  
 H336: May cause drowsiness or dizziness.  
 H371: May cause damage to organs.

**Precautionary statement:**  
 P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 P240: Ground/bond container and receiving equipment.  
 P241: Use explosion-proof electrical/ventilating/lighting equipment.  
 P242: Use only non-sparking tools.  
 P243: Take precautionary measures against static discharge.  
 P260: Do not breathe mist/vapours/spray.  
 P264: Wash hands thoroughly after handling.  
 P271: Use only outdoors or in a well-ventilated area.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P312: Call a POISON CENTER or doctor if you feel unwell.  
 P332+P313: If skin irritation occurs: Get medical attention.  
 P337+P313: If eye irritation persists: Get medical attention.  
 P362+P364: Take off contaminated clothing and wash it before reuse.  
 P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
 P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

**Hazards not otherwise classified:**  
 Health hazards not otherwise classified (HHNOC) - Not Known  
 Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / information on ingredients

Chemical Name	CAS #	%	EINECS
Ethyl alcohol	64-17-5	64.50 - 65.11%	200-578-6
Water	7732-18-5	23.96%	231-791-2
Isopropyl alcohol	67-63-0	6.83%	200-661-7
Methanol	67-56-1	3.03 - 3.26%	200-659-6
Methyl isobutyl ketone	108-10-1	0.68 - 0.76%	203-550-1
Bromothymol blue	76-59-5	0.06%	200-971-2
Phenolphthalein	77-09-8	0.06%	201-004-7
Methyl red	845-10-3	0.02%	212-682-9
Thymol blue	62625-21-2	0.005%	263-650-6

Section 4 First aid measures

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

**Suitable Extinguishing Media:** Carbon dioxide, dry chemical, dry sand, alcohol foam.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly. Flame may not be visible in daylight.

Section 6 Accidental release measures

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

**Section 7 Handling and storage**

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

**Section 8 Exposure controls / personal protection**

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Ethanol	STEL: 1000 ppm / 1880 mg/m <sup>3</sup> (A3)	TWA: 1000 ppm / 1900 mg/m <sup>3</sup>	TWA: 1000 ppm / 1900 mg/m <sup>3</sup>

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

**Section 9 Physical and chemical properties**

<b>Appearance:</b> Clear, green liquid.	<b>Evaporation rate ( Butyl acetate = 1):</b> 4.1*	<b>Partition coefficient:</b> Data not available
<b>Odor:</b> Mild characteristic odor.	<b>Flammability (solid/gas):</b> Data not available.	<b>Auto-ignition temperature:</b> 400°C (752°F)*
<b>Odor threshold:</b> Data not available.	<b>Explosion limits: Lower / Upper:</b> 4.0%(V) / 20.0%(V)*	<b>Decomposition temperature:</b> Data not available.
<b>pH:</b> Data not available.	<b>Vapor pressure (mm Hg):</b> 44.6 @ 20°C (68°F)*	<b>Viscosity:</b> Data not available.
<b>Melting / Freezing point:</b> -114°C (-173°F)*	<b>Vapor density (Air = 1):</b> 1.59*	<b>Molecular formula:</b> Mixture
<b>Boiling point:</b> 75-80°C (173-174°F)*	<b>Relative density (Specific gravity):</b> 0.794 @ 60°F*	<b>Molecular weight:</b> Mixture
<b>Flash point:</b> Approximately 21°C (70°F)	<b>Solubility(ies):</b> Soluble in water.	

\*[Pure Ethanol]

**Section 10 Stability and reactivity**

**Chemical stability:** Stable **Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Excessive temperatures, heat, sparks, open flame and other sources of ignition.

**Incompatible materials:** Strong oxidizers, inorganic acids and halogens.

**Hazardous decomposition products:** Oxides of carbon.

**Section 11 Toxicological information**

**Acute toxicity:** Oral-rat LD50: 7060 mg/kg ; Inhalation-rat LC50: 124.7 mg/l/4hours [Ethanol]

**Skin corrosion/irritation:** Skin-rabbit - Slight irritant.

**Serious eye damage/irritation:** Eyes-rabbit - Severe irritant.

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**IARC classified:** Group 3: Not classifiable as to its carcinogenicity to humans. [Isopropanol]

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**CA Prop 65: ⚠ WARNING!** This product can expose you to Phenolphthalein, Methanol and Methyl isobutyl ketone, which are known to the State of California to cause cancer and birth defects or other reproductive harm.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Data not available

**Potential health effects:**

**Inhalation:** Inhalation may cause dizziness, drowsiness, nausea, vomiting, inability to concentrate and irritation of the throat.

**Ingestion:** Ingestion causes dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait and coma.

**Skin:** Contact with skin causes irritation defatting on prolonged contact.

**Eyes:** Contact with eyes may cause blindness.

**Signs and symptoms of exposure:** See Potential health effects above.

**Additional information:** RTECS #: KQ6300000 [Ethanol]

**Section 12 Ecological information**

**Toxicity to fish:** Oncorhynchus mykiss (fish, fresh water), LC50 = 11,200 mg/l/24 hours [Ethanol]

**Toxicity to daphnia and other aquatic invertebrates:** Daphnia magna (Crustacea), EC50 = 10,800 mg/l/24 hours [Ethanol, 99.8% pure]

**Toxicity to algae:** Chlorella pyrenoidosa (Algae), EC50 = 9,310 mg/l/growth rate [Ethanol, absolute]

**Persistence and degradability:** No data available **Bioaccumulative potential:** No data available

**Mobility in soil:** No data available **PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Section 13 Disposal considerations**

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

**Section 14 Transport information**

**UN/NA number:** UN1170 **Shipping name:** Ethanol solution

**Hazard class:** 3 **Packing group:** II

**Reportable Quantity:** 5,000 lbs (2270 kg)

**Marine pollutant:** No

**Exceptions:** Limited quantity equal to or less than 1 L

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**Section 15 Regulatory information**

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERCLA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Ethanol	Listed	Not listed	D001	Listed	Not listed	⚠ WARNING -Cancer and Reproductive Harm - www.P65Warnings.ca.gov.
Methanol	Listed	5,000 lbs.	U154	Listed	Not listed	
Isopropanol	Listed	Not listed	Not listed	Listed	Not listed	

**Section 16 Other information**

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

## SECTION 16: Other information

### Other information

: **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.



MATERIAL SAFETY DATA SHEET

001 0013579

FOR: GORDON FOOD SERVICE

FOR CHEMICAL EMERGENCY  
SPILL LEAK FIRE EXPOSURE OR ACCIDENT  
CALL CHEMTREC DAY OR NIGHT

DOMESTIC NORTH AMERICA 800-424-9300  
INTERNATIONAL, CALL 703-527-3887 (COLLECT CALLS ACCEPTED)

MATERIAL ID: 23.1331 DATE PREPARED: 2/24/10  
CUSTOMER PART#: 979992

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: GREEN COLOR W.S. (GFS# 573051)  
FORMULA : #23.1331  
CAS NUMBER :

SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

COMPONENTS	CAS NUMBER	% BY WEIGHT	OSHA PEL (ppm)	ACGIH TLV (ppm)	*NOTE*
NONE.					

SECTION III - PHYSICAL DATA

BOILING POINT: NOT AVAILABLE SPECIFIC GRAVITY: 1.01 (+/- .05)  
VAPOR PRESSURE: NOT AVAILABLE VAPOR DENSITY (AIR=1): HEAVIER  
SOLUBILITY IN WATER: SOLUBLE  
APPEARANCE AND ODOR:  
AN OPAQUE DARK GREEN LIQUID HAVING NO CHARACTERISTIC FLAVOR OR ODOR.

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (TAG CLOSED CUP): >200 DEG. F.  
FLAMMABLE LIMITS (% VOLUME IN AIR) LEL: NOT KNOWN UEL: NOT KNOWN  
EXTINGUISHING MEDIA:  
CARBON DIOXIDE, DRY CHEMICAL OR UNIVERSAL-TYPE FOAM APPLIED ACCORDING TO  
MANUFACTURER'S TECHNIQUES. WATER SPRAY.



SPECIAL FIRE-FIGHTING PROCEDURES:  
WEAR SELF-CONTAINED BREATHING APPARATUS AND COMPLETE PERSONAL PROTECTIVE EQUIPMENT.

UNUSUAL FIRE AND/OR EXPLOSION HAZARDS:  
CLOSED CONTAINERS MAY BUILD UP AT ELEVATED TEMPERATURES. IF POSSIBLE, CONTAINERS SHOULD BE COOLED WITH A WATER SPRAY.

NFPA CODES - HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

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SECTION V - REACTIVITY DATA  
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STABILITY:  
STABLE. AVOID HEAT, SPARKS AND OPEN FLAMES.

INCOMPATIBILITY:  
AVOID CONTACT WITH STRONG ALKALIES AND OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:  
BURNING CAN PRODUCE CARBON DIOXIDE AND/OR CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION:  
WILL NOT OCCUR.

-----  
SECTION VI - HEALTH AND HAZARD DATA / FIRST AID  
-----

-----  
EFFECTS OF OVER-EXPOSURE  
-----

EYES:  
MAY CAUSE EYE IRRITATION BY DIRECT CONTACT OR FROM FUMES.

SKIN:  
PROLONGED CONTACT MAY LEAD TO IRRITATION AND DERMATITIS.

BREATHING:  
MAY CAUSE RESPIRATORY TRACT IRRITATION.

SWALLOWING:  
HARMFUL IF SWALLOWED IN CONCENTRATED FORM. CONCENTRATED COLORING AGENT.

EMERGENCY FIRST AID PROCEDURES  
-----

EYES:  
FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, CONTACT A DOCTOR.

SKIN:  
WASH SKIN WITH SOAP AND PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE WEARING AGAIN.

BREATHING:  
REMOVE VICTIM TO FRESH AIR. IF BREATHING BECOMES DIFFICULT SEEK IMMEDIATE MEDICAL ATTENTION.

SWALLOWING:  
IF SWALLOWED, DRINK MILK OR WATER AND CONTACT A DOCTOR IMMEDIATELY.



-----  
SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE  
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-----  
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE  
-----

STORE IN TIGHTLY SEALED CONTAINERS IN A COOL DRY PLACE THAT IS WELL VENTILATED.

-----  
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  
-----

SMALL SPILL:

COVER WITH A NON-COMBUSTIBLE MATERIAL AND REMOVE TO AN APPROVED DISPOSAL CONTAINER. WASH AREA WITH SOAP AND WATER.

LARGE SPILL:

AVOID SOURCES OF IGNITION. CONTAIN SPILLED MATERIAL. COVER WITH A NON-COMBUSTIBLE MATERIAL AND REMOVE TO AN APPROVED DISPOSAL CONTAINER. AVOID INHALATION OF VAPORS. IF IN A CONFINED AREA, NIOSH APPROVED RESPIRATORY PROTECTION MAY BE REQUIRED. WASH AREA WITH SOAP AND WATER. DRY PRODUCTS SHOULD BE SWEEPED UP AND REMOVED TO AN APPROVED DISPOSAL CONTAINER. WASH AREA WITH SOAP AND WATER.

-----  
WASTE DISPOSAL METHOD  
-----

INCINERATE, BURY IN APPROVED MANNER OR DISPOSE OF USING ANY PROCEDURE WHICH IS IN CONFORMANCE WITH PERTINENT FEDERAL, STATE OR LOCAL REGULATIONS.

-----  
SECTION VIII - PROTECTIVE EQUIPMENT TO BE USED  
-----

RESPIRATORY PROTECTION:

IN WELL VENTILATED AREAS, RESPIRATORY PROTECTION IS NOT NORMALLY REQUIRED. IN POORLY VENTILATED AREAS USE NIOSH RESPIRATOR.

VENTILATION:

PROVIDE ADEQUATE VENTILATION USING A MECHANICAL EXHAUST FAN.

PROTECTIVE GLOVES:

CHEMICAL RESISTANT GLOVES RECOMMENDED.

EYE PROTECTION:

CHEMICAL SAFETY GOGGLES RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT:

EYE WASH STATION AND SAFETY SHOWER SHOULD BE EASILY ACCESSIBLE.

-----  
NOTE - THE INFORMATION CONTAINED HEREIN IS FURNISHED WITHOUT WARRANTY OF ANY KIND. EMPLOYERS SHOULD USE THIS INFORMATION ONLY AS A SUPPLEMENT TO OTHER INFORMATION GATHERED BY THEM AND MUST MAKE INDEPENDENT DETERMINATIONS OF SUITABILITY AND COMPLETENESS OF INFORMATION FROM ALL SOURCES TO ASSURE PROPER USE OF THESE MATERIALS AND THE SAFETY AND HEALTH OF EMPLOYEES.  
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# 1100 – Red Liquid Color

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/05/2015      Version: 1

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

**1.1. Product identifier**

Product name : 1100 – Red Liquid Color  
Product form : Mixture

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/mixture : Food industry: component

**1.3. Details of the supplier of the safety data sheet**

LorAnn Oils, Inc.  
4518 Aurelius Road  
Lansing, MI 48910  
Telephone: 1.800.862.8620

**1.4. Emergency telephone number**

Emergency number : CHEMTREC: Within USA and Canada: 1.800.424.9300 Outside USA and Canada: +1 703 527 3887

### SECTION 2: Hazards identification

**2.1. Classification of the substance or mixture**

**Classification (GHS-US)**

Not classified

**2.2. Label elements**

**GHS-US labeling**

No labeling applicable

**2.3. Other hazards**

No additional information available

**2.4. Unknown acute toxicity (GHS-US)**

Not applicable

### SECTION 3: Composition/information on ingredients

**3.1. Substance**

Not applicable

**3.2. Mixture**

\*The specific chemical identities of the ingredients in this mixture, as well as, exact concentrations of any hazardous ingredients stated above, are considered trade secrets. This information is withheld in accordance with the provisions of 1910.1200 of the Code of Federal Regulations.

Full text of H-phrases: see section 16

### SECTION 4: First aid measures

**4.1. Description of first aid measures**

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.

#### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

1100 – Red Liquid Color	
ACGIH	Not applicable
OSHA	Not applicable

### 8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear eye protection and protective gloves. protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Refer to specification sheet
Odor	: characteristic
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 200 °F
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.02
Solubility	: Miscible with water. Water: N/A
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

**10.2. Chemical stability**

Not established.

**10.3. Possibility of hazardous reactions**

Not established.

**10.4. Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

**10.5. Incompatible materials**

Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

fume. Carbon monoxide. Carbon dioxide.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Acute toxicity : Not classified

<b>Proprietary Flavor Ingredient - p322</b>	
LD50 oral rat	20000 mg/kg (Rat; Experimental value)
LD50 dermal rat	22500 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	20800 mg/kg (Rabbit; Experimental value)
ATE US (oral)	20000.000 mg/kg body weight
ATE US (dermal)	20800.000 mg/kg body weight

Skin corrosion/irritation : Not classified  
 Serious eye damage/irritation : Not classified  
 Respiratory or skin sensitization : Not classified  
 Germ cell mutagenicity : Not classified  
 Carcinogenicity : Not classified

Reproductive toxicity : Not classified  
 Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified  
 Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

**12.1. Toxicity**

No additional information available

**12.2. Persistence and degradability**

<b>1100 – Red Liquid Color</b>	
Persistence and degradability	Not established.

**12.3. Bioaccumulative potential**

<b>1100 – Red Liquid Color</b>	
Bioaccumulative potential	Not established.

**12.4. Mobility in soil**

No additional information available

## 12.5. Other adverse effects

Effect on ozone layer :  
Effect on the global warming : No known ecological damage caused by this product.  
Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT  
Not regulated for transport

### Additional information

Other information : No supplementary information available.

### ADR

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Proprietary Flavor Ingredient - 94

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Proprietary Flavor Ingredient - p322

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

### 15.2.2. National regulations

### 15.3. US State regulations

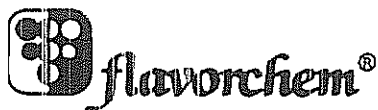
#### Proprietary Flavor Ingredient - p322

U.S. - New Jersey - Right to Know Hazardous Substance List

## SECTION 16: Other Information

### Other information

: **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.



MATERIAL SAFETY DATA SHEET

001 0013579

FOR: GORDON FOOD SERVICE

FOR CHEMICAL EMERGENCY  
SPILL LEAK FIRE EXPOSURE OR ACCIDENT  
CALL CHEMTREC DAY OR NIGHT

DOMESTIC NORTH AMERICA 800-424-9300  
INTERNATIONAL, CALL 703-527-3887 (COLLECT CALLS ACCEPTED)

DATE PREPARED: 3/30/10  
MATERIAL ID: 23.1271 GQ CUSTOMER PART#: 111023

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: EGG SHADE GFS (QT) #23.1271 (111023)  
FORMULA : #23.1271  
CAS NUMBER :

SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

COMPONENTS	CAS NUMBER	% BY WEIGHT	OSHA PEL (ppm)	ACGIH TLV (ppm)	*NOTE*
NONE					

SECTION III - PHYSICAL DATA

BOILING POINT: NOT AVAILABLE      SPECIFIC GRAVITY: 1.01 (+/- .05)  
VAPOR PRESSURE: NOT AVAILABLE      VAPOR DENSITY (AIR=1): HEAVIER  
SOLUBILITY IN WATER: SOLUBLE

APPEARANCE AND ODOR:  
AN OPAQUE, ORANGE LIQUID HAVING NO CHARACTERISTIC FLAVOR OR ODOR.

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (TAG CLOSED CUP): >200 DEG. F.  
FLAMMABLE LIMITS (% VOLUME IN AIR)    LEL: NOT KNOWN      UEL: NOT KNOWN  
EXTINGUISHING MEDIA:  
CARBON DIOXIDE, DRY CHEMICAL OR UNIVERSAL-TYPE FOAM APPLIED ACCORDING TO  
MANUFACTURER'S TECHNIQUES. WATER SPRAY.



23.1271

PAGE 2

SPECIAL FIRE-FIGHTING PROCEDURES:  
WEAR SELF-CONTAINED BREATHING APPARATUS AND COMPLETE PERSONAL PROTECTIVE EQUIPMENT.

UNUSUAL FIRE AND/OR EXPLOSION HAZARDS:  
CLOSED CONTAINERS MAY BUILD UP AT ELEVATED TEMPERATURES. IF POSSIBLE, CONTAINERS SHOULD BE COOLED WITH A WATER SPRAY.

NFPA CODES - HEALTH: 1      FLAMMABILITY: 0      REACTIVITY: 0

-----  
SECTION V - REACTIVITY DATA  
-----

STABILITY:  
STABLE. AVOID HEAT, SPARKS AND OPEN FLAMES.

INCOMPATIBILITY:  
AVOID CONTACT WITH STRONG ALKALIES AND OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:  
BURNING CAN PRODUCE CARBON DIOXIDE AND/OR CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION:  
WILL NOT OCCUR.

-----  
SECTION VI - HEALTH AND HAZARD DATA / FIRST AID  
-----

EFFECTS OF OVER-EXPOSURE  
-----

EYES:  
MAY CAUSE EYE IRRITATION BY DIRECT CONTACT OR FROM FUMES.

SKIN:  
PROLONGED CONTACT MAY LEAD TO IRRITATION AND DERMATITIS.

BREATHING:  
MAY CAUSE RESPIRATORY TRACT IRRITATION.

SWALLOWING:  
HARMFUL IF SWALLOWED IN CONCENTRATED FORM.

EMERGENCY FIRST AID PROCEDURES  
-----

EYES:  
FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, CONTACT A DOCTOR.

SKIN:  
WASH SKIN WITH SOAP AND PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE WEARING AGAIN.

BREATHING:  
REMOVE VICTIM TO FRESH AIR. IF BREATHING BECOMES DIFFICULT SEEK IMMEDIATE MEDICAL ATTENTION.

SWALLOWING:  
IF SWALLOWED, DRINK MILK OR WATER AND CONTACT A DOCTOR IMMEDIATELY.



-----  
SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE  
-----

STORE IN TIGHTLY SEALED CONTAINERS IN A COOL DRY PLACE THAT IS WELL VENTILATED.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  
-----

SMALL SPILL:

COVER WITH A NON-COMBUSTIBLE MATERIAL AND REMOVE TO AN APPROVED DISPOSAL CONTAINER. WASH AREA WITH SOAP AND WATER.

LARGE SPILL:

AVOID SOURCES OF IGNITION. CONTAIN SPILLED MATERIAL. COVER WITH A NON-COMBUSTIBLE MATERIAL AND REMOVE TO AN APPROVED DISPOSAL CONTAINER. AVOID INHALATION OF VAPORS. IF IN A CONFINED AREA, NIOSH APPROVED RESPIRATORY PROTECTION MAY BE REQUIRED. WASH AREA WITH SOAP AND WATER. DRY PRODUCTS SHOULD BE SWEEPED UP AND REMOVED TO AN APPROVED DISPOSAL CONTAINER. WASH AREA WITH SOAP AND WATER.

WASTE DISPOSAL METHOD  
-----

INCINERATE, BURY IN APPROVED MANNER OR DISPOSE OF USING ANY PROCEDURE WHICH IS IN CONFORMANCE WITH PERTINENT FEDERAL, STATE OR LOCAL REGULATIONS.

-----  
SECTION VIII - PROTECTIVE EQUIPMENT TO BE USED  
-----

RESPIRATORY PROTECTION:

IN WELL VENTILATED AREAS, RESPIRATORY PROTECTION IS NOT NORMALLY REQUIRED. IN POORLY VENTILATED AREAS, USE NIOSH RESPIRATOR.

VENTILATION:

PROVIDE ADEQUATE VENTILATION USING A MECHANICAL EXHAUST FAN.

PROTECTIVE GLOVES:

CHEMICAL RESISTANT GLOVES RECOMMENDED.

EYE PROTECTION:

CHEMICAL SAFETY GOGGLES RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT:

EYE WASH STATION AND SAFETY SHOWER SHOULD BE EASILY ACCESSIBLE.

-----  
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# Borax Decahydrate

## Safety Data Sheet

Revision Date: August 2018  
Supersedes: May 2016 version

### Section 1 Identification of the chemical and of the supplier

- 1.1 **Product Identifier** Borax Decahydrate
- 1.2 **Other means of identification**
- Chemical name:** Sodium tetraborate decahydrate
- Synonyms:** Sodium tetraborate decahydrate, Disodium tetraborate decahydrate, Borax decahydrate, Borax 10 Mol
- Grades:** Technical Granular (TG), Technical Powder (TP)
- 1.3 **Recommended use of the chemical and restrictions on use** Industrial manufacturing
- 1.4 **Supplier's details**
- Company name:** **U.S. Borax Inc.**
- Address:** 14486 Borax Road  
Boron, CA 93516-2000, USA
- Supplied by in Canada  
P.O. Box 8090  
London, Ontario N6G 2B0 2
- Telephone number:** +1 (760) 762-7000
- Email:** rtm.msds@riotinto.com
- 1.5 **Emergency phone number** (1) 866 928 0789 Toll Free (24 Hr)  
(1) 215 207 0061 Non-Toll Free (24 Hr)

### Section 2 Hazards identification

- 2.1 **Classification of the substance or mixture**
- Reproductive Toxicity Category 2  
Serious Eye Damage / Eye Irritation Category 2A
- 2.2 **GHS label elements, including pictogram or symbol, signal word, hazard and precautionary statements**

#### Hazard pictograms



**Signal word:** Warning

**Hazard statements:**

H361: Suspected of damaging fertility or the unborn child.

H319: Causes serious eye irritation.

**Precautionary statements:**

P202: Do not handle until all safety precautions have been read and understood.

P280: Wear eye protection.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501: Dispose of contents/container in accordance with local regulation.

**Other hazards which do not result in classification (e.g. dust explosion hazard):** None

## Section 3 Composition/information on ingredients

### 3.1 Substances

Chemical name	CAS No.	% content	See Section 8 for Occupational Exposure Limits
Sodium tetraborate decahydrate	1303-96-4	>99.4	

## Section 4 First aid measures

### 4.1 Description of necessary first aid measures

Protection of first-aiders: No special protective clothing is required.

**Inhalation:** If symptoms such as nose or throat irritation are observed, remove to fresh air.

**Eye contact:** Use eye wash fountain or fresh water to cleanse eye. If irritation persists for more than 30 minutes, seek medical attention.

**Skin contact:** No treatment necessary.

**Ingestion:** Swallowing small quantities (one teaspoon) will cause no harm to healthy adults. If larger amounts are swallowed, give two glasses of water to drink and seek medical attention.

**4.2 Most important symptoms and effects both acute and delayed:** Symptoms of accidental over-exposure to high doses of inorganic borate salts have been associated with ingestion or absorption through large areas of severely damaged skin. These may include nausea, vomiting, and diarrhoea, with delayed effects of skin redness and peeling (see Section 11).

**4.3 Indication of any immediate medical attention and special treatment needed:** Note to physicians: Supportive care only is required for adult ingestion of less than a few grams of the product. For ingestion of larger amounts, maintain fluid and electrolyte balance and maintain adequate kidney function. Gastric lavage is only recommended for heavily exposed, symptomatic patients in whom emesis has not emptied the stomach. Hemodialysis should be reserved for patients with massive acute absorption, especially for patients with compromised renal function. Boron analyses of urine or blood are only useful for verifying exposure and are not useful for evaluating severity of poisoning or as a guide in treatment<sup>1</sup>.

## Section 5 Fire-fighting measures

**5.1 Suitable extinguishing media:** Use extinguishing media that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** None

### 5.2 Special hazards arising from the chemical

None. The product is not flammable, combustible or explosive.

### 5.3 Special protective equipment and precautions for fire fighters:

Not applicable. The product itself is a flame retardant.

## Section 6 Accidental release measures

### 6.1 Personal precaution, protective equipment and emergency procedures

**For non-emergency personnel:**

Eye protection according to ANSI Z.87.1 or other national standards.

**For emergency responders:**

Eye protection according to ANSI Z.87.1 or other national standards.

**6.2 Environmental precautions:** The product is a water-soluble white powder that may cause damage to trees or vegetation by root absorption. Avoid contamination of water bodies during clean up and disposal. Advise local water authority that none of the affected water should be used for irrigation or for the abstraction of potable water until natural dilution returns the boron value to its normal environmental background level or meets local water quality standards.

### 6.3 Methods and material for containment and cleaning up

**Appropriate containment:** Avoid spillage into water and cover drains.

**Land spill:** Vacuum, shovel or sweep up and place in containers for disposal in accordance with applicable local regulations.

**Spillage into water:** Where possible, remove any intact containers from the water.

### 6.4 Reference to other sections

Refer to sections 8, 12 and 13.

## Section 7 Handling and storage

### 7.1 Precautions for safe handling

Good housekeeping procedures should be followed to minimise dust generation and accumulation. Avoid spills. Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

### 7.2 Conditions for safe storage, including any incompatibilities

No special handling precautions are required, but dry, indoor storage is recommended. To maintain package integrity and to minimise caking of the product, bags should be handled on a first-in first-out basis.

**Storage temperature:** Ambient  
**Storage pressure:** Atmospheric  
**Special sensitivity:** Moisture (Caking)

## Section 8 Exposure controls/personal protection

### 8.1 Control parameters

**Occupational exposure limit values:** In the absence of a national OEL, Rio Tinto Borax recommends and applies internally an Occupational Exposure Limit (OEL) of 1 mg B/m<sup>3</sup>. To convert product into equivalent boron (B) content, multiply by 0.113. ACGIH, which is not a regulatory agency, has established a Threshold Limit Value (TLV) for borates.

Occupational Exposure Limits:

ACGIH	2 mg/m <sup>3</sup>	8-hr TWA OEL (mg/m <sup>3</sup> ) inhalable fraction – Borate Compounds, inorganic
ACGIH	6 mg/m <sup>3</sup>	15 min STEL (mg/m <sup>3</sup> ) inhalable fraction – Borate Compounds, inorganic
OSHA/PEL (total dust)	15 mg/m <sup>3</sup>	Particulate Not Otherwise Classified or Nuisance Dust
OSHA/PEL (respirable dust)	5 mg/m <sup>3</sup>	Particulate Not Otherwise Classified or Nuisance Dust
Cal OSHA/PEL	5 mg/m <sup>3</sup>	Particulate Not Otherwise Classified or Nuisance Dust

- 8.2 Appropriate engineering controls:** Use local exhaust ventilation to keep airborne concentrations of dust below permissible exposure limits.
- 8.3 Personal protection equipment:**  
 Eye and face protection: Eye protection according to ANSI Z.87.1 or other national standards are required.  
 Skin protection: Standard work gloves (cotton, canvas or leather) may be warranted if environment is excessively dusty.  
 Respiratory protection: Where airborne concentrations are expected to exceed exposure limits, respirators should be used.

## Section 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance:</b>	White, crystalline solid
<b>Odour</b>	Odourless
<b>Odour threshold:</b>	Not applicable: odourless
<b>pH @ 20°C:</b>	9.3 (0.1% solution); 9.2 (1.0% solution); 9.3 (4.7% solution)
<b>Melting point/ Freezing point:</b>	62°C (enclosed space)
<b>Initial boiling point and boiling range:</b>	Not applicable
<b>Flash point:</b>	Not applicable: inorganic substance
<b>Evaporation rate:</b>	Not applicable: non-volatile
<b>Flammability:</b>	Non-flammable (used as a flame retardant)
<b>Upper/lower flammability or explosive limits:</b>	Not applicable: non-flammable
<b>Vapour pressure:</b>	Not applicable
<b>Vapour density:</b>	Not applicable
<b>Relative density:</b>	1.72@23°C
<b>Solubility(ies):</b>	Water: 49.74 g/L @ 20°C
<b>Partition coefficient; n-octanol/water:</b>	Log P <sub>ow</sub> = -1.53 @ 22°C
<b>Auto-ignition temperature:</b>	Not applicable: not self-heating
<b>Decomposition temperature:</b>	Not applicable
<b>Viscosity:</b>	Not applicable: solid substance
<b>Explosive properties:</b>	Not explosive: does not contain chemical groups associated with explosive properties
<b>Oxidising properties:</b>	Not oxidising: does not contain chemical groups associated with oxidising properties

### 9.2 Other information

<b>Molecular weight:</b>	381.37
<b>Formula:</b>	Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> ·10H <sub>2</sub> O

## Section 10 Stability and reactivity

- 10.1 Reactivity:** None known.
- 10.2 Chemical stability:** Under normal ambient temperatures (-40°C to +40°C), the product is stable. When heated it loses water, eventually forming anhydrous borax (Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub>).
- 10.3 Possibility of hazardous reactions:** Reaction with strong reducing agents such as metal hydrides or alkali metals will generate hydrogen gas which could create an explosive hazard.
- 10.4 Conditions to avoid:** Avoid contact with strong reducing agents by storing according to good industrial practice.
- 10.5 Incompatible materials:** Strong reducing agents.
- 10.6 Hazardous decomposition products:** None.

## Section 11 Toxicological Information

### 11.1 Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)

Inhalation is the most significant route of exposure in occupational and other settings. Dermal exposure is not usually a concern because product is poorly absorbed through intact skin. Product is *not* intended for ingestion.

**(a) Acute toxicity**

Method: Acute Oral Toxicity Study – U.S. EPA FIFRA Guidelines

Species: Rat

Dose: 5,150 – 6,000 mg/kg of body weight

Routes of Exposure: Oral

Results: Low acute oral toxicity. LD<sub>50</sub> in rats is 5,560 mg/kg of body weight. Based on the available data, the classification criteria are not met.

Method: Acute Dermal Toxicity Study – U.S. EPA FIFRA Guidelines

Species: Rabbit

Dose: 2,000 mg/kg bw

Routes of Exposure: Dermal

Results: Low acute dermal toxicity; LD<sub>50</sub> in rabbits is > 2,000 mg/kg of body weight. Poorly absorbed through intact skin. Based on the available data, the classification criteria are not met.

Method: Acute Inhalation Toxicity Study – OECD Guideline 403

Species: Rat

Dose: 2.03 mg/L

Routes of Exposure: Inhalation

Results: Low acute inhalation toxicity. LC<sub>50</sub> in rats is > 2.0 mg/l (or g/m<sup>3</sup>).

**(b) Skin corrosion / irritation:**

Method: Primary Dermal Irritation Study – U.S. EPA FIFRA Guidelines

Species: New Zealand White Rabbit

Dose: 0.5 g moistened with saline

Routes of Exposure: Dermal

Results: No skin irritation. Mean Primary Irritation Score: 0. Based on the available data, the classification criteria are not met.

**(c) Serious eye damage / irritation:**

Method: Eye Irritation Study – similar to OECD Guideline 405

Species: New Zealand White Rabbit

Dose: 0.077g

Routes of Exposure: Eye

Results: Irritating, fully reversible in 14 days.

Classification: Eye Irritation Category 2A (Hazard statement: H319: Causes serious eye irritation.)

Many years of occupational exposure indicate no adverse effects on human eye.

**(d) Respiratory or skin sensitisation:**

Method: Buehler Test – OECD Guideline 406

Species: Guinea Pig

Dose: 0.4 g

Routes of Exposure: Dermal

Results: Not a skin sensitizer. No respiratory sensitisation studies have been conducted. There are no data to suggest that disodium tetraborates are respiratory sensitizers. Based on the available data, the classification criteria are not met.

**(e) Germ cell mutagenicity:**

Method: Several *in vitro* mutagenicity studies have been carried out on boric acid including gene mutation in mammalian cells, unscheduled DNA synthesis, chromosomal aberration and sister chromatid exchange in mammalian cells.

Species: L5178Y mouse lymphoma, V79 Chinese hamster cells, C3H/10T1/2 cells, hepatocytes, Chinese hamster ovary (CHO cells).

Dose: 1.0 - 10.0 mg/ml (1000 -10000 ppm) boric acid

Routes of Exposure: *in vitro*

Results: Not mutagenic (based on boric acid). Based on the available data, the classification criteria are not met.

**(f) Carcinogenicity:**

Method: OECD 451 equivalent.

Species: B6C3F1 mice

Dose: 446 ; 1150 mg boric acid/kg bw/day

Routes of Exposure: Oral feeding study

Results: No evidence of carcinogenicity (based on boric acid). Based on the available data, the classification criteria are not met.

## SAFETY DATA SHEET

Creation Date 12-Nov-2009

Revision Date 24-Dec-2021

Revision Number 4

### 1. Identification

<b>Product Name</b>	Iron Metal Filings, Fine
<b>Cat No. :</b>	I57-500
<b>Synonyms</b>	None
<b>Recommended Use</b>	Laboratory chemicals.
<b>Uses advised against</b>	Food, drug, pesticide or biocidal product use.

#### Details of the supplier of the safety data sheet

##### Company

Fisher Scientific Company  
One Reagent Lane  
Fair Lawn, NJ 07410  
Tel: (201) 796-7100

<b>Emergency Telephone Number</b>	CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887
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### 2. Hazard(s) identification

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable solids	Category 2
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#### Label Elements

**Signal Word**  
Warning

**Hazard Statements**  
Flammable solid



**Precautionary Statements**

**Prevention**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 Ground/bond container and receiving equipment  
 Use explosion-proof electrical/ventilating/lighting equipment  
 Wear protective gloves/protective clothing/eye protection/face protection

**Fire**

In case of fire: Use CO2, dry chemical, or foam for extinction  
 Fight fire with normal precautions from a reasonable distance

**Storage**

Store locked up

**Hazards not otherwise classified (HNOC)**

None identified

**3. Composition/Information on Ingredients**

Component	CAS No	Weight %
Iron	7439-89-6	>95

**4. First-aid measures**

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
<b>Skin Contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
<b>Inhalation</b>	Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.
<b>Ingestion</b>	Do NOT induce vomiting. Get medical attention.
<b>Most important symptoms and effects</b>	No information available.
<b>Notes to Physician</b>	Treat symptomatically

**5. Fire-fighting measures**

<b>Suitable Extinguishing Media</b>	Dry sand; approved class D extinguishers.
<b>Unsuitable Extinguishing Media</b>	Do not use halogenated extinguishing agents or foam; Water; Carbon dioxide (CO2); Dry chemical
<b>Flash Point</b>	No information available
<b>Method -</b>	No information available
<b>Autoignition Temperature</b>	No information available
<b>Explosion Limits</b>	

Upper No data available  
 Lower No data available  
 Sensitivity to Mechanical Impact No information available  
 Sensitivity to Static Discharge No information available

**Specific Hazards Arising from the Chemical**

Flammable. Risk of ignition. Dust can form an explosive mixture with air. Keep product and empty container away from heat and sources of ignition.

**Hazardous Combustion Products**

Hydrogen.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA**

Health 1	Flammability 2	Instability 1	Physical hazards N/A
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**6. Accidental release measures**

**Personal Precautions** Use personal protective equipment as required. Remove all sources of ignition. Avoid dust formation. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing.

**Environmental Precautions** Avoid release to the environment. See Section 12 for additional Ecological Information.

**Methods for Containment and Clean Up** Remove all sources of ignition. Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

**7. Handling and storage**

**Handling** Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation.

**Storage.** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Flammables area. Incompatible Materials. Strong oxidizing agents. Acids. Halogens. halogenated agents.

**8. Exposure controls / personal protection**

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Engineering Measures** Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

**Personal Protective Equipment**

**Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin and body protection** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

**9. Physical and chemical properties**

Physical State	Solid
Appearance	Dark grey
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	1535 °C / 2795 °F
Boiling Point/Range	3000 °C / 5432 °F
Flash Point	No information available
Evaporation Rate	negligible
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	No information available
Solubility	Insoluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	Fe
Molecular Weight	55.847

**10. Stability and reactivity**

Reactive Hazard	None known, based on information available
Stability	Moisture sensitive.
Conditions to Avoid	Avoid dust formation. Incompatible products. Heat, flames and sparks. Exposure to moist air or water.
Incompatible Materials	Strong oxidizing agents, Acids, Halogens, halogenated agents
Hazardous Decomposition Products	Hydrogen
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

**11. Toxicological information**Acute Toxicity

## Product Information

## Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Iron	7500 mg/kg ( Rat )	Not listed	Not listed

Toxicologically Synergistic Products No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation	No information available
Sensitization	No information available

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Iron	7439-89-6	Not listed	Not listed	Not listed	Not listed	Not listed

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

**STOT - single exposure** None known

**STOT - repeated exposure** None known

**Aspiration hazard** No information available

**Symptoms / effects, both acute and delayed** No information available

**Endocrine Disruptor Information** No information available

**Other Adverse Effects** The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

## 12. Ecological information

### Ecotoxicity

This product contains the following substance(s) which are hazardous for the environment.

**Persistence and Degradability** No information available

**Bioaccumulation/ Accumulation** No information available.

**Mobility** No information available.

## 13. Disposal considerations

**Waste Disposal Methods** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## 14. Transport information

### DOT

UN-No UN3089  
 Proper Shipping Name METAL POWDERS, FLAMMABLE, N.O.S.  
 Hazard Class 4.1  
 Packing Group III

### TDG

UN-No UN3089  
 Proper Shipping Name Metal powder, flammable, n.o.s.  
 Hazard Class 4.1  
 Packing Group III

### IATA

UN-No UN3089  
 Proper Shipping Name Metal powder, flammable, n.o.s.  
 Hazard Class 4.1  
 Packing Group III

### IMDG/IMO

UN-No UN3089  
 Proper Shipping Name Metal powder, flammable, n.o.s.

Hazard Class 4.1  
Packing Group III

### 15. Regulatory information

#### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Iron	7439-89-6	X	ACTIVE	-

**Legend:**

**TSCA** US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

**TSCA 12(b)** - Notices of Export      Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Iron	7439-89-6	X	-	231-096-4	X	X		X	X	KE-21059

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

#### U.S. Federal Regulations

**SARA 313**      Not applicable

**SARA 311/312 Hazard Categories**      See section 2 for more information

**CWA (Clean Water Act)**      Not applicable

**Clean Air Act**      Not applicable

**OSHA - Occupational Safety and Health Administration**      Not applicable

**CERCLA**      Not applicable

**California Proposition 65**      This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**      Not applicable

**U.S. Department of Transportation**  
Reportable Quantity (RQ):      N  
DOT Marine Pollutant      N  
DOT Severe Marine Pollutant      N

**U.S. Department of Homeland Security**      This product does not contain any DHS chemicals.

#### Other International Regulations

**Mexico - Grade**      No information available

## Authorisation/Restrictions according to EU REACH

## Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Iron	7439-89-6	Listed	Not applicable	Not applicable	Not applicable

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Iron	7439-89-6	Not applicable	Not applicable	Not applicable	Not applicable

<b>16. Other information</b>
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## Prepared By

Regulatory Affairs  
Thermo Fisher Scientific  
Email: EMSDS.RA@thermofisher.com

## Creation Date

12-Nov-2009

## Revision Date

24-Dec-2021

## Print Date

24-Dec-2021

## Revision Summary

This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

**End of SDS**



**(g) Reproductive toxicity:**

Method: Three-generation feeding study, similar to OECD 416 Two-Generation Study

Species: Rat

Dose: 0; 34 (5.9); 100 (17.5); and 336 (58.5) mg boric acid (mg B)/kg bw/day; and 0; 50 (5.9); 155 (17.5); and 518 (58.5) mg borax (mg B)/kg bw/day

Routes of Exposure: Oral feeding study

Results: NOAEL in rats for effects on fertility in males is 100 mg boric acid/kg bw and 155 mg sodium tetraborate decahydrate/kg bw; equivalent to 17.5 mg B/kg bw.

Method: Prenatal Developmental Toxicity Study - OECD Guideline 414

Species: Rat

Dose: 0; 19 (3.3); 36 (6.3); 55 (9.6); 76 (13.3) and 143 (25) mg boric acid (mg B)/kg bw.

Routes of Exposure: Oral feeding study

Results: NOAEL in rats for developmental effects on the foetus including foetal weight loss and minor skeletal variations is 55 mg boric acid/kg bw or 9.6 mg B/kg; equivalent to 85 mg disodium tetraborate pentahydrate/kg bw.

Classification: Reproductive Toxicity Category 2 (Hazard statement: H361: Suspected of damaging fertility or the unborn child.)

Method: Occupational studies of evaluating sensitive sperm parameters in highly exposed borate workers. Epidemiological studies evaluating high environmental exposures to boron and developmental effects in humans have been conducted.

Species: Human

Dose: A subset of workers was exposed to 125 mg B/day.

Routes of Exposure: Combined oral ingestion and inhalation

Results: No adverse fertility effects in male workers. Epidemiological studies of human developmental effects have shown an absence of effects in exposed borate workers and populations living in areas with high environmental levels of boron.

**(h) STOT-single exposure:**

Method: Standard Test Method for Estimating Sensory Irritancy of Airborne Chemicals - ASTM E981-04 (2004)

Species: Mouse

Dose: 186 – 1704 mg/m<sup>3</sup>

Routes of Exposure: Inhalation

Results: The maximum exposure of 1704 mg/m<sup>3</sup> resulted in a reduced respiratory rate of 33%, graded as moderate irritation. The lowest exposure tested of 186 mg/m<sup>3</sup> sodium tetraborate pentahydrate resulted in a reduced respiration rate of 11%, graded as no irritation. Based on the available data, the classification criteria are not met.

Method: Sensory irritation in human volunteers

Species: Human

Dose: 5 - 40 mg/m<sup>3</sup>

Routes of Exposure: Inhalation

Results: A NOAEL for irritation from sodium tetraborate pentahydrate of 10 mg/m<sup>3</sup> among male and female human volunteers under controlled laboratory conditions. At 10 mg/m<sup>3</sup> increased nasal secretion was observed, but occurred in the absence of other irritating effects at a concentration below that considered irritating by volunteers and was not seen in a subsequent study.

**(i) STOT-repeated exposure:**

Method: Chronic toxicity study of boric acid and disodium tetraborate decahydrate, similar to OECD 452

Species: Rat

Dose: 0; 33 (5.9); 100 (17.5); 334 (58.5) mg boric acid (B)/kg bw per day (nominal in diet); and 0; 52 (5.9); 155 (17.5); 516 (58.5) mg borax (B)/kg/day (nominal in diet)

Routes of Exposure: Oral feeding study

Results: A NOAEL of 17.5 mg B/kg bw/day equivalent to 118 mg sodium tetraborate pentahydrate/kg bw/day was determined in a chronic feeding study (2 years) in rats and is based on testes effects. Other effects (kidney, haemopoietic system) are regarded only at even higher dose levels. Based on the available data, the classification criteria are not met.

**(j) Aspiration hazard:** Physical form of solid powder indicates no aspiration hazard potential.

**11.2 Symptoms related to the physical, and chemical and toxicological characteristics:**

At high concentrations irritation of nose, throat and eye may be observed. Products are *not* intended for ingestion. Small amounts (e.g. a teaspoonful) swallowed accidentally are not likely to cause effects. Symptoms of accidental over-exposure to high doses of inorganic borate salts have been associated with ingestion or absorption through large areas of severely damaged skin. These may include nausea, vomiting, and diarrhoea, with delayed effects of skin redness and peeling.

**11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure:**

Human epidemiological studies show no increase in pulmonary disease in occupational populations with chronic exposures to boric acid and sodium borate dust. Human epidemiological studies indicate no effect on fertility in occupational populations with chronic exposures to borate dust and indicate no effect to a general population with high exposures to

borates in the environment.

#### 11.4 Numerical measures of toxicity (such as acute toxicity)

None. This product is a substance.

## Section 12 Ecological information

### 12.1 Ecotoxicity (aquatic and terrestrial, where available)

Note that the data values are expressed as boron equivalents. To convert to this product divide the boron equivalent by 0.113. Studies judged to be unreliable or with insufficient information to evaluate are not included.

#### Freshwater

##### Chronic studies

Taxonomic Group	Number of Taxa Tested	Range of Endpoint Values (geometric NOEC/EC10)	References
Algal	4	10 mg B/L ( <i>Chlorella pyrenoidosa</i> ) to 50 mg B/L ( <i>Anacystis nidulans</i> )	3, 4
Higher plants	3	4.0 mg B/L ( <i>Phragmites australis</i> ) to 60 mg B/L ( <i>Lemna minor</i> )	5, 6
Invertebrate and protozoan	7	5.7 mg B/L ( <i>Daphnia magna</i> ) to 32 mg B/L ( <i>Chironomus riparius</i> )	7, 8
Fish	6	2.9 mg B/L ( <i>Micropterus salmoides</i> ) to 17 mg B/L ( <i>Carassius auratus</i> )	9
Amphibian	2	29 mg B/L ( <i>Rana pipiens</i> ) to 41 mg B/L ( <i>Bufo fowleri</i> )	9

Results<sup>2</sup>: Based on the complete data set of 22 species, the HC<sub>5</sub> value of the species sensitivity distribution is 4.05 mg B/L.

##### Acute studies

Taxonomic Group	Number of Taxa Tested	Range of Endpoint Values (geometric EC/LC50)	References
Algal	2	10 mg B/L ( <i>Chlorella pyrenoidosa</i> ) to 28 mg B/L ( <i>Selenastrum capricornutum</i> )	3, 10
Invertebrate and protozoan	9	113 mg B/L ( <i>Ceriodaphnia dubia</i> ) to 1376 mg B/L ( <i>Chironomus decorus</i> )	11, 12
Fish	7	80 mg B/L ( <i>Pimephales promelas</i> ) to 627 mg B/L ( <i>Onchorhynchus tshawytscha</i> )	11, 13
Amphibian	2	86 mg B/L ( <i>Rana pipiens</i> ) to 104 mg B/L ( <i>Bufo fowleri</i> )	9

Results<sup>2</sup>: Based on the complete data set from 46 studies with 20 species, the HC<sub>5</sub> value of the species sensitivity distribution is 27.3 mg B/L.

Classification: Based on the acute data for freshwater species, this substance is not classified as hazardous to the environment.

#### Marine and Estuarine Data

##### Chronic studies

Taxonomic Group	Number of Taxa Tested	Range of Endpoint Values (geometric NOEC/EC10)	References
Algal	19	5 mg B/L ( <i>Emiliana huxleyi</i> ) to >100 mg B/L ( <i>Agmenellum quadruplicatum</i> , <i>Anacystis marina</i> , <i>Thalassiosira pseudonana</i> )	4

Results: No data are available for invertebrate or vertebrate species. The results from the freshwater data set are recommended as applicable to marine and estuarine species.

## Acute studies

Taxonomic Group	Number of Taxa Tested	Range of Endpoint Values (geometric EC/LC50)	References
Invertebrate	3	45 mg B/L ( <i>Litopenaeus vannamei</i> ) to 83 mg B/L ( <i>Americamysis bahia</i> )	14, 15
Fish	2	74 mg B/L ( <i>Limanda limanda</i> ) to 600 mg B/L ( <i>Oncorhynchus tshawytscha</i> )	13, 16

No data are available for algal species.

## Sediment

Taxonomic Group	Number of Taxa Tested	Range of Endpoint Values (geometric EC/LC50)	References
Invertebrate	1	82.4 mg B/kg sediment dw ( <i>Chironomus riparius</i> )	17, 18

Results: Although limited, the data suggest that sediment organisms are within range of toxicity of aquatic organisms. In addition, the substance will not partition to the sediment, so a sediment/water partitioning approach is justified.

## Sewage Treatment Plants (STP)

Taxonomic Group	Number of Taxa Tested	Range of Endpoint Values (geometric NOEC/EC10)	References
Activated sludge	NA	>17.5 mg B/L to 100 mg B/L	19
Microbes	3	10 mg B/L ( <i>Opercularia bimarginata</i> ) to 20 mg B/L ( <i>Paramecium caudatum</i> )	20

## Terrestrial Data

## Chronic studies

Taxonomic Group	Number of Taxa Tested	Range of Endpoint Values (geometric NOEC/EC10)	References
Plant	28	7.2 mg B/kg dw ( <i>Zea mays</i> ) to 56 mg B/kg dw ( <i>Allium cepa</i> )	21, 22
Invertebrates	9	15.4 mg B/kg dw ( <i>Folsomia candida</i> ) to 87 mg B/kg dw ( <i>Caenorhabditis elegans</i> )	23, 24
Soil micro	3	12 mg B/kg dw (nitrogen mineralization and nitrification test) to 420 mg B/kg dw (soil nitrogen transformation test)	25, 26

Results<sup>2</sup>: Based on the complete data set, the HC<sub>5</sub> value of the species sensitivity distribution is 10.8 mg B/kg dw.

**Phytotoxicity:** Boron is an essential micronutrient for healthy growth of plants. It can be harmful to boron sensitive plants in higher quantities. Care should be taken to minimise the amount of borate product released to the environment.

## 12.2 Persistence and Degradability

Biodegradation is not an applicable endpoint since the product is an inorganic substance.

## 12.3 Bioaccumulative potential

This product will undergo hydrolysis in water to form undissociated boric acid. Boric acid will not biomagnify through the foodchain. Octanol/Water partition coefficient: Log P<sub>ow</sub> = -0.7570 @ 25°C (based on boric acid)<sup>27</sup>.

## 12.4 Mobility in soil

The product is soluble in water and is leachable through normal soil. Adsorption to soils or sediments is insignificant.

## 12.5 Other adverse effects

None

## Section 13 Disposal considerations

### 13.1 Disposal methods

Product packaging should be recycled where possible.  
Local authorities should be consulted about any specific local requirements

Such product should, if possible, be used for an appropriate application.

## Section 14 Transport information

Transport Classification for Road (ADR/DOT/TDG) / Rail (RID); Inland waterways (ADN); Sea (IMDG); Air (ICAO/IATA)

14.1 UN Number:	Not Regulated
14.2 UN Proper Shipping Name:	Not Regulated
14.3 Transport hazard class(es):	Not Regulated
14.4 Packing Group:	Not Regulated
14.5 Environmental Hazards (e.g. marine pollutant)	Not Regulated
14.6 Special precautions for user:	Not Regulated
14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code:	Not Regulated

## Section 15 Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**Clean Air Act (Montreal Protocol) - Substances that deplete the ozone layer:** Not manufactured with and does not contain any Class I or Class II ozone depleting substances.

**NPRI (Canada):** Borax decahydrate is not listed on the Canadian National Pollutant Release Inventory.

**Regulation (EC) No 689/2008 - Export and Import of Dangerous Chemicals:** Not listed.

**National Regulations:** Ensure all national/local regulations are observed.

**U.S. EPA RCRA:** This product is not listed as a hazardous waste under any sections of the Resource Conservation and Recovery Act (RCRA) or regulations (40 CFR 261 *et seq.*)

**Superfund:** CERCLA/SARA. This product is not listed under CERCLA (Comprehensive Environmental Response Compensation and Liability Act) or its 1986 amendments, SARA (Superfund Amendments and Reauthorization Act), including substances listed under Section 313 of SARA, Toxic Chemicals, 42 USC 11023, 40 CFR 372.65, Section 302 of SARA, Extremely Hazardous Substances, 42 USC 11002, 40 CFR 355, or the CERCLA Hazardous Substances list, 42 USC 9604, 40 CFR 302.

**Safe Drinking Water Act (SDWA):** This product is not regulated under the SDWA, 42 USC 300g-1, 40 CFR 141 *et seq.* Consult state and local regulations for possible water quality advisories regarding boron compounds.

**Clean Water Act (CWA) (Federal Water Pollution Control Act):** 33 USC 1251 *et seq.*

- a) This product is not itself a discharge covered by any water quality criteria of Section 304 of the CWA, 33 USC 1314.
- b) It is not on the Section 307 List of Priority Pollutants, 33 USC 1317, 40 CFR 129.
- c) It is not on the Section 311 List of Hazardous Substances, 33 USC 1321, 40 CFR 116.

**IARC:** The International Agency for Research on Cancer (IARC) (a unit of the World Health Organization) does not list or categorize this product as a carcinogen.

**NTP Biennial Report on Carcinogens:** This product is not listed.

**OSHA carcinogen:** This product is not listed.

**California Proposition 65:** This product is not listed on the Proposition 65 list of carcinogens or reproductive toxicants.

**Chemical inventory listing:** The listing is sometimes under the Inventory number of the anhydrous form of this inorganic salt.

<b>U.S. EPA TSCA Inventory:</b>	1330-43-4
<b>Canada DSL:</b>	1330-43-4
<b>EINECS:</b>	215-540-4
<b>Australia AICS:</b>	1330-43-4
<b>China IECSC:</b>	1330-43-4
<b>Japanese METI &amp; ISHL:</b>	(1)-69
<b>New Zealand NZIoC:</b>	1330-43-4
<b>Philippines PICCS:</b>	1330-43-4
<b>South Korea KECI:</b>	KE-03483

## Section 16 Other information

**16.1 Date of revision:** August 2018

**16.2 Revision Details:** Removed Acute Cat 5 classification from Section 11 as LD50 does not meet criteria.

### 16.3 References:

- Litovitz T L, Norman S A, Veltri J C, Annual Report of the American Association of Poison Control Centers Data Collection System. Am. J. Emerg. Med. (1986), 4, 427-458
- Chemical Safety Report "Disodium Tetraborate, Anhydrous" December 2010, updated 2012  
<http://apps.echa.europa.eu/registered/registered-sub.aspx#search>
- Fernandez et al. (1984) Phytol (Buenos Aires) 44: 125-133.
- Antia and Cheng (1975) J Fish Res Bd Can 32: 2487-2494.
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### 16.4 Abbreviations and acronyms:

EC: Effect concentration  
 GHS: Global Harmonised System for classification and labelling of chemicals  
 LC: Lethal Concentration  
 LD: Lethal Dose  
 STOT: Specific Target Organ Toxicity  
 LOEC: Lowest Observed Effect Concentration  
 NA: Not applicable.  
 NOAEL: No observed adverse effect level

NOEC: No Observed Effect Concentration  
STP: Sewage Treatment Plant

**Precautionary Phrases:**

KEEP OUT OF REACH OF CHILDREN.

Do not ingest.

Not for use in food, drug, or pesticides.

Refer to safety data sheet.

**National Fire Protection Assoc. (NFPA) classification:**

Health 1

Flammability 0

Reactivity 0

**Hazardous Materials Information Systems (HMIS):**

Red: (Flammability) 0

Yellow: (Reactivity) 0

Blue: (Acute Health) 1\*

\*Chronic Effects

**Disclaimer:**

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# SAFETY DATA SHEET

## Section 1. Identification

<b>GHS product identifier</b>	: Elmer's School Glue
<b>Product code</b>	: E301, E304, E304LA, E304LALMR, E304NR, E308, E308LA, E308NR, E340, E340NR, E1304, 2024678, 2029187, 2051873, 2077067, 2089725, 2089733, 2121893, 6155060310, 6155060331, 6155060341, 60307W8, 6030Q, 60310Q
<b>Other means of identification</b>	: Elmer's Washable, No Run School Glue
<b>Product type</b>	: Liquid.

### Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

**Material uses** : Not available.

**Manufacturer** : Newell Brands, Inc.  
6655 Peachtree Dunwoody Road  
Sandy Springs, GA 30328  
USA  
800-323-0749

**Emergency telephone number (with hours of operation)** : CHEMTREC (U.S. and Canada) 1-800-424-9300  
CHEMTREC (Outside the U.S.) +1-703-527-0585

## Section 2. Hazards identification

**OSHA/HCS status** : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

**Classification of the substance or mixture** : Not classified.

Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 74.9%

Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 99.4%

Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 99.4%

### GHS label elements

**Signal word** : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

### Precautionary statements

**General** : Read label before use. If medical advice is needed, have product container or label at hand.

**Prevention** : Not applicable.

**Response** : Not applicable.

**Storage** : Not applicable.

**Disposal** : Not applicable.

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture  
**Other means of identification** : Elmer's Washable, No Run School Glue

Ingredient name	%	CAS number
glycerol	≤3	56-81-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8).

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## Section 7. Handling and storage

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
glycerol	<p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</p> <p>TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Total dust</p> <p><b>OSHA PEL (United States, 5/2018).</b> TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</p> <p>TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust</p>

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### Appearance

Physical state	: Liquid.
Color	: White.
Odor	: Not available.
Odor threshold	: Not available.
pH	: 4.5 to 5.5
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Not available.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: Not available.
Solubility	: Not available.
Solubility in water	: Not available.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Flow time (ISO 2431)	: Not available.

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
glycerol	LD50 Oral	Rat	12600 mg/kg	-

#### Irritation/Corrosion

## Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

### Sensitization

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

## Section 11. Toxicological information

- General** : No known significant effects or critical hazards.  
**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
glycerol	12600	N/A	N/A	N/A	N/A

## Section 12. Ecological information

### Toxicity

Not available.

### Persistence and degradability

Not available.

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
glycerol	-1.76	-	low

### Mobility in soil

- Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

- Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

- Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

### Additional information

**Special precautions for user** : **Transport within user's premises**: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : Not applicable.

#### Composition/information on ingredients

Name	%	Classification
glycerol	≤3	EYE IRRITATION - Category 2B

### State regulations

**Massachusetts** : The following components are listed: GLYCERINE MIST

## Section 15. Regulatory information

- New York** : None of the components are listed.
- New Jersey** : The following components are listed: GLYCERIN; 1,2,3-PROPANETRIOL
- Pennsylvania** : The following components are listed: 1,2,3-PROPANETRIOL
- California Prop. 65**

This product does not require a Safe Harbor warning under California Prop. 65.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

- Australia** : All components are listed or exempted.
- Canada** : All components are listed or exempted.
- China** : All components are listed or exempted.
- Europe** : All components are listed or exempted.
- Japan** : **Japan inventory (ENCS)**: All components are listed or exempted.  
**Japan inventory (ISHL)**: Not determined.
- New Zealand** : All components are listed or exempted.
- Philippines** : All components are listed or exempted.
- Republic of Korea** : All components are listed or exempted.
- Taiwan** : All components are listed or exempted.
- Thailand** : All components are listed or exempted.
- Turkey** : All components are listed or exempted.
- United States** : All components are listed or exempted.
- Viet Nam** : All components are listed or exempted.

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

Health	/	0
Flammability		0
Physical hazards		0

**Caution:** HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### National Fire Protection Association (U.S.A.)

## Section 16. Other information



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### Procedure used to derive the classification

Classification	Justification
Not classified.	

### History

**Date of printing** : 11/18/2020

**Date of issue/Date of revision** : 11/18/2020

**Date of previous issue** : 11/2/2020

**Version** : 4

### Key to abbreviations

: ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 N/A = Not available  
 SGG = Segregation Group  
 UN = United Nations

**References** : Not available.

☑ Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



# Sodium Bicarbonate

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations  
Revision Date: 03/12/2015 Date of issue: 03/12/2015 Supersedes Date: 03/09/2012

Version: 1.0

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Substance

**Product Name:** Sodium Bicarbonate

**CAS No:** 144-55-8

**Formula:** NaHCO<sub>3</sub>

**Synonyms:** Baking Soda

#### Intended Use of the Product

Food Ingredient, Pharmaceutical, Household and Personal Care Product, Water Treatment, General Industrial Use.

#### Name, Address, and Telephone of the Responsible Party

##### **Company**

Church & Dwight  
500 Charles Ewing Blvd  
Ewing Township, NJ 08628  
T 1-800-524-1328  
[www.churchdwight.com](http://www.churchdwight.com)

#### Emergency Telephone Number

**Emergency Number** : For Medical Emergency: 1-888-234-1828, For Chemical Emergency: 1-800-424-9300 (CHEMTREC)

### SECTION 2: HAZARDS IDENTIFICATION

The consumer variant of this product is labeled in accordance with regulations administered by the Consumer Product Safety Commission (CPSC) and the Food and Drug Administration (FDA). The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The requirements of the Occupational Safety and Health Administration applicable to this SDS differ from the labeling requirements of the CPSC and FDA, and as a result, this SDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

#### Classification of the Substance or Mixture

**Classification (GHS-US)** Not classified

#### Label Elements

**GHS-US Labeling** No labeling applicable

**Other Hazards** Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Prolonged contact with dust can produce mechanical irritation.

**Unknown Acute Toxicity (GHS-US)** Not available

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

Name : Sodium Bicarbonate  
CAS No : 144-55-8

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Sodium bicarbonate	(CAS No) 144-55-8	100	Not classified

### SECTION 4: FIRST AID MEASURES

#### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area.

**Skin Contact:** Brush off loose particles from skin. Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.

# Sodium Bicarbonate

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical attention if a large amount is swallowed.

### **Most Important Symptoms and Effects Both Acute and Delayed**

**General:** None expected under normal conditions of use.

**Inhalation:** Prolonged inhalation of dust may cause respiratory irritation.

**Skin Contact:** Skin contact with large amounts of dust may cause mechanical irritation.

**Eye Contact:** Contact may cause irritation due to mechanical abrasion.

**Ingestion:** Large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema.

**Chronic Symptoms:** None expected under normal conditions of use.

### **Indication of Any Immediate Medical Attention and Special Treatment Needed**

If exposed or concerned, get medical advice and attention.

## **SECTION 5: FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** For surrounding fire: Use of heavy stream of water may spread fire.

### **Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** NOT FLAMMABLE . Under fire conditions, hazardous fumes will be present.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

### **Advice for Firefighters**

**Precautionary Measures Fire:** Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.

**Firefighting Instructions:** Exercise caution when fighting any chemical fire.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Sodium oxides.

### **Reference to Other Sections**

Refer to section 9 for flammability properties.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust or fumes. Avoid skin and eye contact.

#### **For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### **For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area.

### **Environmental Precautions**

Prevent entry to sewers and public waters. Avoid release to the environment.

### **Methods and Material for Containment and Cleaning Up**

**For Containment:** Contain and collect as any solid.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Avoid generation of dust during clean-up of spills. Keep in suitable, closed containers for disposal. Contact competent authorities after a spill.

### **Reference to Other Sections**

See heading 8, Exposure Controls and Personal Protection.

## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling**

**Additional Hazards When Processed:** When heated, material emits irritating fumes.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

### **Conditions for Safe Storage, Including Any Incompatibilities**

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

**Incompatible Materials:** Acids. Water. Lime.

**Storage Temperature:** < 65 °C (150 °F)

# Sodium Bicarbonate

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

**Specific End Use(s)** Food Ingredient, Pharmaceutical, Water Treatment, General Industrial Use

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control Parameters

Particulates not otherwise classified (PNOC)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> Respirable fraction 10 mg/m <sup>3</sup> Total Dust
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> Respirable fraction 15 mg/m <sup>3</sup> Total Dust
Alberta	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total)
British Columbia	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (total dust)
Manitoba	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable particles, recommended)
New Brunswick	OEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable particles, recommended)
Nova Scotia	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable particles, recommended)
Nunavut	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (respirable mass)
Northwest Territories	OEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (respirable mass)
Ontario	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable)
Prince Edward Island	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable particles, recommended)
Québec	VEMP (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (including dust, inert or nuisance particulates; containing no Asbestos and <1% Crystalline silica-total dust)
Saskatchewan	OEL STEL (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (insoluble or poorly soluble-inhalable fraction) 6 mg/m <sup>3</sup> (insoluble or poorly soluble-respirable fraction)
Saskatchewan	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (insoluble or poorly soluble-inhalable fraction) 3 mg/m <sup>3</sup> (insoluble or poorly soluble-respirable fraction)

#### Exposure Controls

**Appropriate Engineering Controls:** For occupational/workplace settings: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** For occupational or bulk quantities: Gloves. Safety glasses. Dust formation: dust mask.



**Materials for Protective Clothing:** For occupational or bulk quantities: Chemically resistant materials and fabrics.

**Hand Protection:** For occupational or bulk quantities: Wear chemically resistant protective gloves.

**Eye Protection:** For occupational or bulk quantities: Chemical goggles or safety glasses.

**Respiratory Protection:** Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Other Information:** When using, do not eat, drink or smoke.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: White, crystalline powder
Odor	: None
Odor Threshold	: Not available
pH	: 8.2 (1% Solution)
Evaporation Rate	: Not available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: Not available
Flash Point	: Not available

# Sodium Bicarbonate

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Upper/Lower Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20 °C	: Not available
Specific gravity / density	: 62 lb/ft <sup>3</sup>
Specific Gravity	: Not available
Solubility	: Water: 8.6 g/100ml @ 20 °C (68 °F)
Partition Coefficient: N-octanol/water	: Not available
Viscosity	: Not available
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	: Not expected to present an explosion hazard due to static discharge.

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions will not occur under normal conditions.

**Chemical Stability:** Decomposes slowly on exposure to water (moisture).

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid:** Exposure to moisture or moist air. Temperatures above 150°F (65 °C).

**Incompatible Materials:** Acids. Water. Lime.

**Hazardous Decomposition Products:** None known. At high temperature may liberate toxic gases.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

Acute Toxicity: Not classified

LD50 and LC50 Data:

Sodium Bicarbonate	
LD50 Oral Rat	7.3 g/kg
LC50 Inhalation Rat	> 4.7 mg/l/4h

**Skin Corrosion/Irritation:** Not classified [pH: 8.2 (1% Solution)]

**Serious Eye Damage/Irritation:** Not classified [pH: 8.2 (1% Solution)]

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Teratogenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Prolonged inhalation of dust may cause respiratory irritation.

**Symptoms/Injuries After Skin Contact:** Skin contact with large amounts of dust may cause mechanical irritation.

**Symptoms/Injuries After Eye Contact:** Contact may cause irritation due to mechanical abrasion.

**Symptoms/Injuries After Ingestion:** Large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema.

**Chronic Symptoms:** None expected under normal conditions of use.

### SECTION 12: ECOLOGICAL INFORMATION

**Toxicity** No additional information available

Sodium Bicarbonate	
LC50 Fish 1	7100 mg/l Bluegill
EC50 Daphnia 1	4100 mg/l
LC 50 Fish 2	7700 mg/l Rainbow Trout
Sodium bicarbonate (144-55-8)	
LC50 Fish 1	8250 - 9000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	2350 mg/l (Exposure time: 48 h - Species: Daphnia magna)

# Sodium Bicarbonate

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

**Persistence and Degradability** Not established

**Bioaccumulative Potential** Not established

**Mobility in Soil** Not available

**Other Adverse Effects**

**Other Information:** Avoid release to the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

### SECTION 14: TRANSPORT INFORMATION

**In Accordance with DOT** Not regulated for transport

**In Accordance with IMDG** Not regulated for transport

**In Accordance with IATA** Not regulated for transport

**In Accordance with TDG** Not regulated for transport

### SECTION 15: REGULATORY INFORMATION

#### US Federal & International Regulations

##### Sodium Bicarbonate (144-55-8)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### US State Regulations

Neither this product nor its chemical components appear on any US state lists.

#### Canadian Regulations

##### Sodium bicarbonate (144-55-8)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 03/12/2015

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### Party Responsible for the Preparation of This Document

Church & Dwight

500 Charles Ewing Blvd

Ewing Township, NJ 08628

T 1-800-524-1328

*This Product Safety Data Sheet is offered solely for your information, consideration and investigation. Church & Dwight Co., Inc. provides no warranties; either expressed or implied, and assumes no responsibility for the accuracy or completeness of data contained herein. Church & Dwight Co., Inc. urges persons receiving this information to make their own determination as to the information suitability for their particular application.*

## Section 1 Identification

Page E1 of E2



**Aldon** 221 Rochester Street  
Avon, NY 14414  
(585) 226-6177

**CHEMTREC 24 Hour Emergency**  
**Phone Number (800) 424-9300**  
For laboratory and industrial use only.  
Not for drug, food or household use.

<b>Product</b>	<b>BARIUM NITRATE, 0.1 MOLAR SOLUTION</b>
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<b>Synonyms</b>	Barium Nitrate, Aqueous Solution
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## Section 2 Hazards Identification

Signal word: WARNING

Pictograms: None required

Target organs: Central nervous system, Kidneys.

## GHS Classification:

Acute toxicity, oral (Category 5)

Acute toxicity, inhalation (Category 5)

## GHS Label information: Hazard statement:

H303: May be harmful if swallowed.

H333: May be harmful if inhaled.

## Precautionary statement:

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

P304+P312: IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

## Section 3 Composition / information on ingredients

Chemical Name	CAS #	%	EINECS
Water	7732-18-5	97.39%	231-791-2
Barium nitrate	10022-31-8	2.61%	233-020-5

## Section 4 First aid measures

**INGESTION: MAY BE HARMFUL IF SWALLOWED.** Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION: MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION.** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT: MAY CAUSE IRRITATION.** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION: MAY CAUSE IRRITATION.** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire fighting measures

**Suitable Extinguishing Media:** Use any media suitable for extinguishing supporting fire.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

## Section 6 Accidental release measures

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.



# AK Scientific, Inc.

Page 1 of 5

## Safety Data Sheet (United States)

Calcium chloride, anhydrous powder

### 1. Identification

Product name: Calcium chloride, anhydrous powder  
Catalog#: 2398AP  
IUPAC name: Calcium dichloride  
Product use restrictions: Only for research and development use by, or directly under the supervision of, a technically qualified individual.  
Company: AK Scientific, Inc.  
30023 Ahern Ave.  
Union City, CA 94587  
Telephone: (510) 429-8835  
Fax: (510) 429-8836  
Website: www.aksci.com  
Emergency contact number: 1-800-633-8253 United States & Canada  
1-801-629-0667 International

### 2. Hazard Identification:

#### GHS Classification (United States)

Skin irritation (Category 2)

Eye irritation (Category 2A)

Specific target organ toxicity - single exposure (Category 3), Respiratory system

#### Pictogram(s)



#### Signal word:

Warning

#### Hazard statement(s)

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

#### Precautionary statement(s):

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 Call a poison center or doctor if you feel unwell.  
P321 Specific treatment (see supplemental first aid instructions on this label).  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/container to an approved waste disposal plant.

#### Hazards not otherwise classified (HNOC) or not covered by GHS:

None

**3. Composition/Information on Ingredients**

Synonyms:	Not available.
CAS#:	10043-52-4
Purity:	95%
EC:	233-140-8

**4. First Aid Measures**

**General Information:** Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and show this safety data sheet.

**Inhalation:** Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical aid.

**Skin contact:** Immediately flush skin with running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Obtain medical aid immediately.

**Eye contact:** Immediately flush open eyes with running water for at least 15 minutes. Obtain medical aid immediately.

**Ingestion:** Do NOT induce vomiting without medical advice. Rinse mouth with water. Never administer anything by mouth to an unconscious person. Obtain medical aid immediately.

**Most important symptoms and effects, both acute and delayed:** No further information available. Please see sections 2 and 11.

**Indication of any immediate medical attention and special treatment needed:** No further information available.

**5. Fire Fighting Measures**

**Suitable extinguishing media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.

**Specific hazards arising from the chemical:** Calcium oxides, Hydrogen chloride.

**Advice for firefighters:** As in any fire, wear a NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**6. Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures:** Wear protective equipment and keep unprotected personnel away. Ensure adequate ventilation. Remove all sources of ignition. Prevent further leak or spill if safe to do so. For personal protective equipment, please refer to section 8.

**Environmental precautions:** Do not let product enter drains, other waterways, or soil.

**Methods and materials for containment and cleaning up:** Prevent further leak or spill if safe to do so. Vacuum, sweep up, or absorb with inert material and place into a suitable disposal container. Consult local regulations for disposal. See section 13 for further disposal information.

**7. Handling and Storage**

**Precautions for safe handling:** Avoid contact with skin, eyes, and personal clothing. Wash hands thoroughly after handling. Avoid breathing fumes. Use only with adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection. Keep away from sources of ignition. Minimize dust generation and accumulation. Keep container tightly closed. Open and handle container with care. Do not eat, drink, or smoke while handling.

**Conditions for safe storage, including any incompatibilities:** Store in a tightly-closed

container when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from sources of ignition. Store long-term in a cool, dry place.

## 8. Exposure Controls/Personal Protection

### Exposure limits:

OSHA PEL: Not available.  
NIOSH REL: Not available.  
ACGIH TLV: Not available.

**Appropriate engineering controls:** Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Facilities storing or utilizing this material should be equipped with an eyewash fountain. Use adequate general and local exhaust ventilation to keep airborne concentrations low.

### Personal protection

**Eyes:** Based on an evaluation of the eye or face hazards present, wear chemical splash-resistant safety glasses or goggles with side protection. A face shield may be appropriate in some workplaces. Use eyewear tested and approved under appropriate government standards such as OSHA 29 CFR 1910.133 or EU EN166.

**Hands:** Wear gloves selected based on an evaluation of the possible hazards to hands and skin, the duration of use, the physical conditions of the workplace, and the chemical resistance and physical properties of the glove material.

**Skin and body:** Protective clothing must be selected based on the hazards present in the workplace, the physical environment, the duration of exposure, and other factors. No fabric can provide protection against all potential hazards; therefore it is important to select the appropriate protective clothing for each specific hazard. At the minimum, wear a laboratory coat and close-toed footwear.

**Respiratory:** Respirators are not a substitute for accepted engineering control measures such as enclosure or confinement of the operation, general and local ventilation, and substitution of less toxic materials. When respiratory personal protective equipment is appropriate based on an assessment of respiratory hazards in the workplace, use a NIOSH- or CEN-certified respirator.

## 9. Physical and Chemical Properties

Physical State:	Solid
Molecular Formula:	CaCl <sub>2</sub>
Molecular Weight:	110.98
Odor:	Not available.
pH:	Not available.
Boiling Point Range:	1600°C
Freezing/Melting Point:	782°C
Flash Point:	Not available.
Evaporation Rate:	Not available.
Flammability(solid,gas):	Please see section 2.
Explosive limits:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Solubility:	Not available.
Relative Density:	Not available.
Refractive Index:	Not available.
Volatility:	Not available.
Auto-ignition Temperature:	Not available.
Decomposition Temperature:	Not available.
Partition Coefficient:	Not available.

## 10. Stability and Reactivity

Reactivity: Not available.  
Chemical stability: Stable under recommended temperatures and pressures.  
Possibility of hazardous reactions: Not available.  
Conditions to avoid: Dust generation.  
Incompatible materials: Strong oxidizing agents.  
Hazardous decomposition products: Calcium oxides, Hydrogen chloride.

### 11. Toxicological Information

RTECS# EV9800000  
Acute toxicity: Not available.  
Routes of exposure: Inhalation, eye contact, skin contact, ingestion.  
Symptoms related to the physical, chemical and toxicological characteristics: Skin contact may result in inflammation characterized by itching, scaling, reddening, blistering, pain or dryness. Eye contact may result in redness, pain or severe eye damage. Inhalation may cause irritation of the lungs and respiratory system. Overexposure may result in serious illness or death.

### Carcinogenicity

IARC: Not classified.  
NTP: Not listed.  
OSHA: Not listed.  
Acute toxic effects: Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

### 12. Ecological Information

Ecotoxicity: Toxicity to Fish: LC50 *Cyprinodon variegatus* (Sheepshead Minnow)-0.0152M-24h; Toxicity to Crustaceans: LC50 *Americamysis bahia* (Opossum Shrimp)-270000 g/L-48h; Toxicity to Algae: EC50 *Pseudokirchneriella subcapitata* (Green Algae)-0.01M-96h  
Persistence and degradability: Not available.  
Bioaccumulative potential: Not available.  
Mobility in soil: Not available.  
Other adverse effects: Not available.

### 13. Disposal Considerations

Disposal of waste: Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state and local regulations when disposing of the substance.

Disposal of packaging: Do not reuse containers. Dispose of as unused product.

### 14. Transportation Information

#### DOT (United States)

UN number: Not hazmat  
Proper shipping name: Not available.  
Transport hazard class: Not available.  
Packing group: Not available.

#### IATA

UN Number: Not DG  
Proper shipping name: Not available.

Transport hazard class: Not available.  
Packing group: Not available.

### 15. Regulatory Information

#### TSCA (United States)

This product is on the EPA Toxic Substance Control Act (TSCA) inventory. The product is supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR § 720 et seq. The health risks have not been fully determined. Any information that is or becomes available will be supplied on the SDS.

California Proposition 65:	Not Available..	
NFPA Rating:	Health:	Not available.
	Flammability:	Not available.
	Instability:	Not available.

### 16. Additional Information

Revision Date: 01/27/2024

Printed Date: 01/27/2024

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall AK Scientific be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if AK Scientific has been advised of the possibility of such damages.*

**Section 1 Identification**

**Aldon** 221 Rochester Street  
Avon, NY 14414  
(585) 226-6177

**CHEMTREC 24 Hour Emergency**  
Phone Number (800) 424-9300  
For laboratory and industrial use only.  
Not for drug, food or household use.

**Product** COPPER(II) SULFATE, 20% SOLUTION

**Synonyms** Cupric Sulfate, Water Solution

**Section 2 Hazards identification**

**Signal word:** WARNING

**Pictograms:** GHS07 / GHS09

**Target organs:** Liver, Kidneys, Lungs, Spleen.

**GHS Classification:**

Acute toxicity-oral (Category 4)

Skin irritation (Category 2)

Eye irritation (Category 2A)

Aquatic acute toxicity (Category 1)

Aquatic chronic toxicity (Category 1)

**GHS Label information: Hazard statement:**

H302: Harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H410: Very toxic to aquatic life with long lasting effects.

**Precautionary statement:**

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P312: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell.

P302+P352: IF ON SKIN: Wash with plenty of water and soap.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313: If skin irritation occurs: Get medical attention.

P337+P313: If eye irritation persists: Get medical attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

P391: Collect spillage.

P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

**Hazards not otherwise classified:**

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

**Section 3 Composition / information on ingredients**

Chemical Name	CAS #	%	EINECS
Water	7732-18-5	68.8%	231-791-2
Cupric sulfate, pentahydrate	7758-99-8	31.2%	231-847-6 (anhydrous)

**Section 4 First aid measures**

**INGESTION:** HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** CAUSES SEVERE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** CAUSES SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

**Section 5 Fire fighting measures**

**Suitable Extinguishing Media:** Use any media suitable for extinguishing supporting fire.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Section 6 Accidental release measures**

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

**Section 7 Handling and storage**

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, well-ventilated area away from incompatible substances.

**Section 8 Exposure controls / personal protection**

Exposure Limits:	Chemical Name	ACGIH (TLV) TWA: 1 mg/m <sup>3</sup>	OSHA (PEL) TWA: 1 mg/m <sup>3</sup>	NIOSH (REL) TWA: 1 mg/m <sup>3</sup>
	Copper, dusts and mists, as Cu			

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

**Section 9 Physical and chemical properties**

<b>Appearance:</b> Clear, blue liquid.	<b>Evaporation rate (Water = 1):</b> <1	<b>Partition coefficient:</b> Data not available
<b>Odor:</b> No odor.	<b>Flammability (solid/gas):</b> Data not available.	<b>Auto-ignition temperature:</b> Data not available
<b>Odor threshold:</b> Data not available.	<b>Explosion limits: Lower / Upper:</b> Data not available	<b>Decomposition temperature:</b> Data not available.
<b>pH:</b> Data not available.	<b>Vapor pressure (mm Hg):</b> 14 (water)	<b>Viscosity:</b> Data not available.
<b>Melting / Freezing point:</b> Approximately 0°C (32°F) (water)	<b>Vapor density (Air = 1):</b> 0.7 (water)	<b>Molecular formula:</b> Mixture
<b>Boiling point:</b> Approximately 100°C (212°F) (water)	<b>Relative density (Specific gravity):</b> Approximately 1.0 (water)	<b>Molecular weight:</b> Mixture
<b>Flash point:</b> Data not available	<b>Solubility(ies):</b> Complete in water.	

**Section 10 Stability and reactivity**

**Chemical stability:** Stable **Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Excessive temperatures which cause evaporation.

**Incompatible materials:** Reducing agents, acetylene or nitromethane, magnesium, strong bases, alkalines, phosphates, hydrazine, zirconium. Can corrode aluminum, steel and iron.

**Hazardous decomposition products:** Oxides of sulfur and copper fumes.

**Section 11 Toxicological information**

**Acute toxicity:** Oral-rat LD50: 300 mg/kg [Copper sulfate anhydrous]  
**Skin corrosion/irritation:** Data not available  
**Serious eye damage/irritation:** Data not available  
**Respiratory or skin sensitization:** Data not available  
**Germ cell mutagenicity:** Data not available  
**Carcinogenicity:** Data not available  
**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.  
**Ca Prop 65:** This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.  
**Reproductive toxicity:** Data not available  
**STOT-single exposure:** Data not available  
**STOT-repeated exposure:** Data not available  
**Aspiration hazard:** Data not available  
**Potential health effects:**  
**Inhalation:** May cause irritation to the mucous membranes and upper respiratory tract.  
**Ingestion:** Ingestion can cause irritation to the digestive tract and abdominal pain.  
**Skin:** Contact with skin causes slight irritation. Excessive exposure may cause allergic dermatitis. May cause irritation or burns on wet skin.  
**Eyes:** Can cause severe irritation and may result in irreversible eye damage.  
**Signs and symptoms of exposure:** *Note to physician:* Probable mucosal damage may contradict the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed. Wilson's disease can be aggravated by excessive exposure. Symptoms include nausea, vomiting, gastrointestinal pain, diarrhea, dizziness, jaundice, and general debility.  
**Additional information:** RTECS #: GL8900000 [Copper sulfate pentahydrate]

**Section 12 Ecological information**

**Toxicity to fish:** *Salmo gairdneri* (fish, estuary, fresh water), LC50 = < 0.75-0.84 mg/L [Copper sulfate anhydrous]  
**Toxicity to daphnia and other aquatic invertebrates:** No data available  
**Toxicity to algae:** No data available  
**Persistence and degradability:** No data available **Bioaccumulative potential:** No data available  
**Mobility in soil:** No data available **PBT and vPvB assessment:** No data available  
**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Section 13 Disposal considerations**

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

**Section 14 Transport information**

<b>UN/NA number:</b> Not applicable	<b>Shipping name:</b> Not Regulated	<b>Reportable Quantity:</b> No	<b>Marine pollutant:</b> No
<b>Hazard class:</b> Not applicable	<b>Packing group:</b> Not applicable		
<b>Exceptions:</b> Not applicable	<b>2024 ERG Guide #</b> Not applicable		

**Section 15 Regulatory information**

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Cupric sulfate	Listed	10 lbs (4.54 kg)	Not listed	Not listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

**Section 16 Other information**

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

**Section 1 Identification**

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**Aldon** 221 Rochester Street  
Avon, NY 14414  
(585) 226-6177

**CHEMTREC 24 Hour Emergency**  
**Phone Number (800) 424-9300**  
For laboratory and industrial use only.  
Not for drug, food or household use.

**Product** HYDROCHLORIC ACID, 1 MOLAR (1 NORMAL) SOLUTION

**Synonyms** Muriatic Acid, Water Solution / Hydrogen Chloride, Water Solution

**Section 2 Hazards identification**

**Signal word:** WARNING

**Pictograms:** GHS05

**Target organs:** Respiratory system, skin, eyes, lungs.



**GHS Classification:**

Corrosive to metals (Category 1)

Skin irritant (Category 3)

Eye irritant (Category 2B)

**GHS Label information:**

**Hazard statement(s):**

H290: May be corrosive to metals.

H316: Causes mild skin irritation.

H320: Causes eye irritation.

**Precautionary statement(s):**

P234: Keep only in original container.

P264: Wash hands thoroughly after handling.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313: If skin irritation occurs: Get medical attention.

P337+P313: If eye irritation persists: Get medical attention.

P390: Absorb spillage to prevent material damage.

P406: Store in corrosive resistant container with a resistant inner liner.

**Hazards not otherwise classified:**

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

**Section 3 Composition / information on ingredients**

Chemical Name	CAS #	%	EINECS
Water	7732-18-5	96.86%	231-791-2
Hydrochloric acid	7647-01-0	3.14%	231-595-7

**Section 4 First aid measures**

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** MAY CAUSE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY CAUSE IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

**Section 5 Fire fighting measures**

**Suitable Extinguishing Media:** Carbon dioxide, dry chemical, dry sand, alcohol foam.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Contact with metals produce hydrogen, which is flammable and may produce explosive mixtures with air.

**Section 6 Accidental release measures**

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

**Section 7 Handling and storage**

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, well-ventilated area away from incompatible substances.

**Section 8 Exposure controls / personal protection**

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Hydrogen chloride	STEL: C 2 ppm / C 2.98 mg/m <sup>3</sup>	STEL: C 5 ppm / C 7 mg/m <sup>3</sup>	STEL: C 5 ppm / C 7 mg/m <sup>3</sup>

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

**Section 9 Physical and chemical properties**

**Appearance:** Clear, colorless liquid.

**Odor:** No odor.

**Odor threshold:** No data available

**pH:** No data available

**Melting / Freezing point:** ~ 0°C (~ 32°F) [water]

**Boiling point:** ~ 100°C (212°F) [water]

**Flash point:** Not flammable.

**Evaporation rate ( = 1):** < 1

**Flammability (solid/gas):** No data available

**Explosion limits: Upper/Lower:** No data available

**Vapor pressure (mm Hg):** 14 [water]

**Vapor density (Air = 1):** 0.7 [water]

**Relative density (Specific gravity):** 1.0 [water]

**Solubility(ies):** Complete.

**Partition coefficient: (n-octanol / water):** No data available

**Auto-ignition temperature:** No data available

**Decomposition temperature:** No data available

**Viscosity:** No data available

**Molecular formula:** Mixture.

**Molecular weight:** Mixture.

**Section 10 Stability and reactivity**

**Chemical stability:** Stable

**Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Containers may burst when heated. Avoid contact with water.

**Incompatible materials:** Metals, bases, active metals, alkali metals, oxidizing agents, hydroxides, amines, carbonates, cyanides, sulfides, sulfites, formaldehyde.

**Hazardous decomposition products:** Hydrogen chloride gas.

**Section 11 Toxicological information**

**Acute toxicity:** Data not available

**Skin corrosion/irritation:** Data not available at this dilution.

**Serious eye damage/irritation:** Data not available at this dilution.

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

**IARC:** Group 3: Not classifiable as to its carcinogenicity to humans.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Ca Prop 65:** This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** Data not available at this dilution.

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Data not available

**Potential health effects:** To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available.

Exercise appropriate procedures to minimize potential hazards.

**Inhalation:** May be harmful if inhaled. Material may cause irritation to the tissue of the mucous membranes and upper respiratory tract.

**Ingestion:** May be harmful if swallowed.

**Skin:** May cause irritation and/or burns.

**Eyes:** May cause irritation and/or burns.

**Signs and symptoms of exposure:** Data not available at this dilution.

**Additional information:** RTECS #: MW4025000 [Hydrochloric acid]

**Section 12 Ecological information**

**Toxicity to fish:** LC50 - Gambusia affinis (Mosquito fish) - 282 mg/l - 96 h (Hydrochloric acid)

**Toxicity to daphnia and other aquatic invertebrates:** No data available

**Toxicity to algae:** No data available

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Section 13 Disposal considerations**

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

**Section 14 Transport information**

**UN/NA number:** UN1789

**Shipping name:** Hydrochloric acid

**Hazard class:** 8

**Packing group:** III

**Reportable Quantity:** 5000 lbs (2270 kg)

**Marine pollutant:** No

**Exceptions:** Limited quantity equal to or less than 5 Lt

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**Section 15 Regulatory information**

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Hydrochloric acid	Listed	5000 lbs (2270 kg)	D002	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

**Section 16 Other information**

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

## Section 1 Identification

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**Aldon** 221 Rochester Street  
Avon, NY 14414  
(585) 226-6177

**CHEMTREC 24 Hour Emergency**  
**Phone Number (800) 424-9300**  
For laboratory and industrial use only.  
Not for drug, food or household use.

**Product** SODIUM SULFATE, 0.1 MOLAR SOLUTION

**Synonyms** Sodium Sulfate, Water Solution

## Section 2 Hazards identification

This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.

**Signal word:** None required

**Pictograms:** No symbol required

**Target organs:** None known

**GHS Classification:** None required

**GHS Label information: Hazard statement:** None required

**Precautionary statement:** None required

**Supplemental information:**

Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

**Hazards not otherwise classified:**

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

## Section 3 Composition / information on ingredients

Chemical Name	CAS #	%	EINECS
Water	7732-18-5	98.58%	231-791-2
Sodium sulfate	7757-82-6	1.42%	231-820-9

## Section 4 First aid measures

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** MAY CAUSE TRANSIENT IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY CAUSE TRANSIENT IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire fighting measures

**Suitable Extinguishing Media:** Use extinguishing agent suitable for type of surrounding fire.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

## Section 6 Accidental release measures

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, well-ventilated area away from incompatible substances.

## Section 8 Exposure controls / personal protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Sodium sulfate	None established.	None established.	None established.

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

## Section 9 Physical and chemical properties

**Appearance:** Clear, colorless liquid.

**Odor:** No odor.

**Odor threshold:** Data not available.

**pH:** Data not available

**Melting / Freezing point:** Approximately 0°C (32°F) (water)

**Boiling point:** Approximately 100°C (212°F) (water)

**Flash point:** Data not available

**Evaporation rate (Water = 1):** <1

**Flammability (solid/gas):** Data not available.

**Explosion limits: Lower / Upper:** Data not available

**Vapor pressure (mm Hg):** 14 (water)

**Vapor density (Air = 1):** 0.7 (water)

**Relative density (Specific gravity):** Approximately 1.0 (water)

**Solubility(ies):** Complete in water.

**Partition coefficient:** Data not available

**Auto-ignition temperature:** Data not available

**Decomposition temperature:** Data not available.

**Viscosity:** Data not available.

**Molecular formula:** Mixture

**Molecular weight:** Mixture

## Section 10 Stability and reactivity

**Chemical stability:** Stable

**Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Excessive temperatures which cause evaporation.

**Incompatibilities with other materials:** Molten active metals, including aluminum and magnesium, acids.

**Hazardous decomposition products:** Oxides of sulfur.

## Section 11 Toxicological information

**Acute toxicity:** Oral-rat LD50: >10,000 mg/kg

**Skin corrosion/irritation:** Data not available

**Serious eye damage/irritation:** Data not available

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** Data not available

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Data not available

**Potential health effects:**

Inhalation: May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

Skin: May cause mild irritation.

Eyes: May cause mild irritation.

**Signs and symptoms of exposure:** To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

**Additional information:** RTECS #: No data available

## Section 12 Ecological information

**Toxicity to fish:** *Gambusia affinis* (Fish, fresh water) LC50: 120 mg/l/96 hours [Sodium sulfate]

**Toxicity to daphnia and other aquatic invertebrates:** *Daphnia magna* (Crustacea) EC50: 630 mg/l/96 hours [Sodium sulfate]

**Toxicity to algae:** *Chlorella pyrenoidosa* (Algae) EC199: 57,700 mg/l/8 days [Sodium sulfate]

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## Section 13 Disposal considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

## Section 14 Transport information

**UN/NA number:** Not applicable

**Shipping name:** Not Regulated

**Hazard class:** Not applicable

**Packing group:** Not applicable

**Reportable Quantity:** No

**Marine pollutant:** No

**Exceptions:** Not applicable

**2024 ERG Guide #** Not applicable

## Section 15 Regulatory information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Sodium sulfate	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

## Section 16 Other information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

## Section 1 Identification

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**Aldon** 221 Rochester Street  
Avon, NY 14414  
(585) 226-6177

**CHEMTEC 24 Numéros De Téléphone De  
Secours D'Heure (800) 424-9300**  
Pour l'usage industriel et de laboratoire seulement.  
Pas pour l'usage de drogue, de nourriture ou de ménage.

<b>Produit</b>	SULFATE DE SODIUM, SOLUTION DE 0.1 MOLLAIRE
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<b>Synonymes</b>	Sulfate de sodium, solution de l'eau
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## Section 2 Identification des dangers

**Cette substance ou un mélange n'a pas été classé comme dangereux à ce selon le Système général harmonisé (SGH) de classification et d'étiquetage des produits chimiques.**

**Mention d'avertissement:** Aucune requise

**Pictogrammes:** Aucun symbole n'est demandé

**Les organes cibles:** Aucun connu

**Classification par le GHS:** Aucune requise

**Renseignements sur l'étiquette GHS: Mention de danger:** Aucune requise

**Déclarations de précaution:** Aucune requise

**Informations supplémentaires:**

Ne pas respirer les brouillards/vapeurs/aérosols. Ne pas mettre dans les yeux, la peau ou les vêtements. Porter des gants de protection / des vêtements de protection / protection des yeux / du visage. Se laver les mains après avoir manipulé. Consulter un médecin en cas de malaise.

**Dangers non classés autrement:**

Dangers pour la santé non classés ailleurs (HHNOC) - pas connu

Dangers physiques non classés autrement (PHNOC) - pas connu

## Section 3 Composition / information sur les ingrédients

Nommé Chimique	# CAS	%	EINECS
L'eau	7732-18-5	98.58%	231-791-2
Sulfate de sodium	7757-82-6	1.42%	231-820-9

## Section 4 Premiers soins

**INGESTION:** PEUT ÊTRE NOCIF EN CAS D'INGESTION. Appeler un médecin ou un centre antipoison immédiatement. Provoquer le vomissement seulement si elle est informée par le personnel compétent médicaux. Ne jamais rien donner par la bouche à une personne inconsciente.

**INHALATION:** PEUT ÊTRE NOCIF EN CAS D'INHALATION. Sortir au grand air. Si elle ne respire pas, pratiquer la respiration artificielle. Si la respiration est difficile, donner de l'oxygène. Obtenir des soins médicaux.

**CONTACT AVEC LES YEUX:** PEUT CAUSER UNE IRRITATION PASSAGÈRE. Vérifier et enlever les lentilles de contact. Rincer abondamment à l'eau pendant au moins 15 minutes, en soulevant les paupières inférieures et supérieures de temps en temps. Obtenez une attention médicale immédiate.

**ABSORPTION PAR LA PEAU:** PEUT CAUSER UNE IRRITATION PASSAGÈRE. Enlever les vêtements contaminés. Rincer soigneusement avec du savon doux et d'eau. En cas d'irritation, consulter un médecin.

## Section 5 Mesures à prendre en cas d'incendie

**Moyens d'extinction:** Utiliser un agent extincteur approprié au type de feu environnant.

**Actions de protection pour les sapeurs-pompiers:** En cas d'incendie, porter un appareil respiratoire NIOSH / MSHA approuvé autonome et un équipement complet de protection. Utiliser un jet d'eau pour maintenir incendie refroidir les conteneurs exposés.

**Dangers spécifiques:** En cas de feu, de l'eau peut s'évaporer à partir de cette solution, qui peut causer les produits dangereux de décomposition à être formée comme poussière ou vapeur.

## Section 6 Mesures à prendre en cas de déversement accidentel

**Précautions personnelles:** Évacuer le personnel vers la zone sûre. Utiliser un équipement de protection personnelle comme indiqué dans la Section 8. Assurer une ventilation adéquate.

**Précautions environnementales:** Éviter tout ruissellement vers les égouts pluviaux et les fossés qui aboutissent aux voies navigables.

**Confinement et de nettoyage:** Absorbent avec le matériel sec inerte, balayez ou nettoyez à l'aspirateur vers le haut et placez dans un récipient approprié pour la disposition appropriée. Laver la zone de déversement avec du savon et de l'eau.

**Précautions pour la manutention en toute sécurité:** Lire l'étiquette sur le contenant avant d'utiliser. Ne pas porter de lentilles cornéennes lorsque vous travaillez avec des produits chimiques. Tenir hors de portée des enfants. Éviter tout contact avec les yeux, la peau et les vêtements. Ne pas inhaler les vapeurs, les embruns ou le brouillard. Utiliser avec une ventilation adéquate. Éviter l'ingestion. Bien se laver après la manipulation. Retirer et laver les vêtements avant de les réutiliser.

**Conditions de stockage:** Stocker dans un endroit frais et bien aéré, loin des substances incompatibles.

## Section 8 Contrôle de l'exposition / protection individuelle

Limites d'exposition:	Nommé Chimique	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Sulfate de sodium	Aucun établi.	Aucun établi.	Aucun établi.

**Contrôles d'ingénierie:** Les installations d'entreposage ou d'utilisation de ce matériel doit être équipé d'une douche oculaire et une douche de sécurité et le matériel d'extinction d'incendie. Le personnel doit porter des lunettes de sécurité, des lunettes, ou un écran facial, une blouse de laboratoire ou tablier, des gants protecteurs appropriés. Utiliser une ventilation adéquate pour maintenir les concentrations atmosphériques faible.

**Protection respiratoire:** Aucun ne devrait être nécessaire dans le laboratoire normal manipulant aux températures ambiantes. Si les conditions brumeuses prévaloir, travailler dans la hotte ou de porter un masque respiratoire approuvé NIOSH / MSHA.

## Section 9 Propriétés physiques et chimiques

**Apparence:** Clair, liquide incolore.

**Odeur:** Aucun odeur.

**Seuil de l'odeur:** Données non disponibles.

**pH:** Données non disponibles

**Point de fusion / congélation:** Environ 0°C (32°F) (eau)

**Point d'ébullition:** Environ 100°C (212°F) (eau)

**Point d'éclair:** Données non disponibles

**Taux d'évaporation (Eau = 1):** <1

**Inflammabilité (solide / gaz):** Données non disponibles.

**Limites d'explosivité: Bas / Max:** Données non disponibles

**Pression de vapeur (mm Hg):** 14 (eau)

**Densité de vapeur (Air = 1):** 0.7 (eau)

**Densité relative (gravité spécifique):** Environ 1.0 (eau)

**Solubilité (s):** Complet dans l'eau.

**Coefficient de partage:** Données non disponibles

**Auto-inflammation:** Données non disponibles

**Température de décomposition:** Données non disponibles.

**Viscosité:** Données non disponibles.

**Formule moléculaire:** Mélange

**Poids moléculaire:** Mélange

## Section 10 Stabilité et réactivité

**Stabilité chimique:** Stable

**Polymérisation dangereuse:** N'aura pas lieu.

**Conditions à éviter:** Les températures excessives qui causent l'évaporation.

**Incompatibilités avec d'autres matériaux:** Actif fondu metals, y compris l'aluminium et le magnésium, des acides.

**Produits de décomposition dangereux:** Oxydes de soufre.

## Section 11 Données toxicologiques

**Toxicité aiguë:** Oral-rat LD50: >10,000 mg/kg

**La corrosion de la peau et l'irritation:** Données non disponibles

**Des lésions oculaires graves / irritation:** Données non disponibles

**Respiratoire ou sensibilisation de la peau:** Données non disponibles

**Mutagenicité des cellules germinales:** Données non disponibles

**Cancérogène:** Données non disponibles

NTP: Aucun composant de ce produit présent à des niveaux supérieurs ou égaux à 0,1% n'a été identifié comme cancérigène reconnu ou présumé par NTP.

IARC: Aucun composant de ce produit présent à des niveaux supérieurs ou égaux à 0,1% n'a été identifié comme cancérigène probable, possible ou confirmé par IARC.

OSHA: Aucun composant de ce produit présent à des niveaux supérieurs ou égaux à 0,1% n'a été identifié comme cancérigène ni comme cancérigène possible par OSHA.

**Reproductive toxicity:** Données non disponibles

**STOT-exposition unique:** Données non disponibles.

**STOT-une exposition répétée:** Données non disponibles

**Risque d'aspiration:** Données non disponibles

**Effets d'une surexposition:**

Inhalation: Peut être nocif en cas d'inhalation.

Ingestion: Peut être nocif en cas d'ingestion.

Peau: Peut causer une légère irritation.

Yeux: Peut causer une légère irritation.

**Les signes et les symptômes de l'exposition:** Pour le meilleur de notre connaissance les propriétés chimiques, physiques et toxicologiques n'ont pas été étudiées à fond.

Les données spécifiques n'est pas disponible. Exercice des procédures appropriées afin de minimiser les dangers potentiels.

**Informations complémentaires: RTECS #:** Données non disponibles

## Section 12 Données écologiques

**Toxicité pour les poissons:** Gambusia affinis (Fish, fresh water) LC50: 120 mg/l/96 hours [Sulfate de sodium]

**Toxicité pour les daphnies et autres invertébrés aquatiques:** Daphnia magna (Crustacea) EC50: 630 mg/l/96 hours [Sulfate de sodium]

**Toxicité pour les algues:** Chlorella pyrenoidosa (Algae) EC199: 57,700 mg/l/8 days [Sulfate de sodium]

**Persistence et dégradabilité:** Pas de données disponible

**Potentiel de bioaccumulation:** Pas de données disponible

**Mobilité dans le sol:** Pas de données disponibles

**Évaluation PBT et vPvB:** Pas de données disponibles

**Autres effets indésirables:** Un danger pour l'environnement ne peut pas être exclu dans l'éventualité d'une manipulation ou d'élimination.

## Section 13 Données sur l'élimination

Ces lignes directrices sont destinées à l'élimination de la disposition d'un catalogue de taille seules les quantités. Les règlements fédéraux peuvent s'appliquer aux contenants vides. Des réglementations nationales et / ou local peut être différent. Éliminer conformément à toutes les réglementations locales, provinciales et fédérales ou d'un contrat avec une agence élimination des produits chimiques sous licence.

## Section 14 Informations relatives au transport

**Numéro UN / NA:** Non applicable

**Nom d'expédition:** Non réglé

**Classe de danger:** Non applicable

**Groupe d'emballage:** Non applicable

**Quantité à déclarer:** Non

**Polluant marin:** Non

**Exceptions:** Non applicable

**2024 ERG Guide #:** Non applicable

## Section 15 Informations sur la réglementation

Un produit chimique est considéré comme inscrit si le numéro CAS pour la forme anhydre est sur la liste d'inventaire.

Composant	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL
Sulfate de sodium	Listed	Pas listed	Pas listed	Listed	Pas listed

## Section 16 Autres informations

Les informations contenues dans ce document sont fournis sans garantie d'aucune sorte. Les employeurs devraient considérer cette information seulement comme complément à d'autres informations recueillies par eux et doivent prendre des décisions indépendantes de la pertinence et l'exhaustivité de l'information de toutes les sources afin d'assurer une utilisation correcte de ces matériaux et de la sécurité et la santé des employés. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

Section 1 Identification

**INNOVATING SCIENCE**® by Aldon  
 "Cutting edge science for the classroom"

221 Rochester Street  
 Avon, NY 14414-9409  
 (585) 226-6177

**CHEMTREC 24 Hour Emergency**  
**Phone Number (800) 424-9300**  
 For laboratory and industrial use only.  
 Not for drug, food or household use.

Product UNIVERSAL PH INDICATOR

Synonyms Universal Indicator

Section 2 Hazards Identification

Signal word: DANGER  
 Pictograms: GHS02 / GHS08 / GHS06  
 Target organs: Eyes, Central nervous system, Liver, Kidneys.



GHS Classification:  
 Flammable liquid (Category 2)  
 Acute toxicity, inhalation (Category 3)  
 Skin irritation (Category 2)  
 Eye irritation (Category 2B)  
 STOT-SE (Category 2)  
 STOT-SE (Category 3)

GHS Label information: Hazard statement:  
 H225: Highly flammable liquid and vapour.  
 H315: Causes skin irritation.  
 H319: Causes serious eye irritation.  
 H331: Toxic if inhaled.  
 H336: May cause drowsiness or dizziness.  
 H371: May cause damage to organs.

Precautionary statement:

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
 P240: Ground/bond container and receiving equipment.  
 P241: Use explosion-proof electrical/ventilating/lighting equipment.  
 P242: Use only non-sparking tools.  
 P243: Take precautionary measures against static discharge.  
 P260: Do not breathe mist/vapours/spray.  
 P264: Wash hands thoroughly after handling.  
 P271: Use only outdoors or in a well-ventilated area.  
 P280: Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P312: Call a POISON CENTER or doctor if you feel unwell.  
 P332+P313: If skin irritation occurs: Get medical attention.  
 P337+P313: If eye irritation persists: Get medical attention.  
 P362+P364: Take off contaminated clothing and wash it before reuse.  
 P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
 P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Hazards not otherwise classified:  
 Health hazards not otherwise classified (HHNOC) - Not Known  
 Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / information on ingredients

Chemical Name	CAS #	%	EINECS
Ethyl alcohol	64-17-5	64.50 - 65.11%	200-578-6
Water	7732-18-5	23.96%	231-791-2
Isopropyl alcohol	67-63-0	6.83%	200-661-7
Methanol	67-56-1	3.03 - 3.26%	200-659-6
Methyl isobutyl ketone	108-10-1	0.68 - 0.76%	203-550-1
Bromothymol blue	76-59-5	0.06%	200-971-2
Phenolphthalein	77-09-8	0.06%	201-004-7
Methyl red	845-10-3	0.02%	212-682-9
Thymol blue	62625-21-2	0.005%	263-650-6

Section 4 First aid measures

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

**Suitable Extinguishing Media:** Carbon dioxide, dry chemical, dry sand, alcohol foam.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly. Flame may not be visible in daylight.

Section 6 Accidental release measures

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.



**Section 1 Identification**

Page E1 of E2



**Aldon** 221 Rochester Street  
Avon, NY 14414  
(585) 226-6177

**CHEMTREC 24 Hour Emergency**  
**Phone Number (800) 424-9300**  
For laboratory and industrial use only.  
Not for drug, food or household use.

<b>Product</b>	ACETIC ACID, 1 MOLAR SOLUTION
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<b>Synonyms</b>	Acetic Acid, Water Solution
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**Section 2 Hazards identification****Signal word:** WARNING**Pictograms:** No symbol required**Target organs:** None known**GHS Classification:**

Eye irritation (Category 2B)

**GHS Label information: Hazard statement:**

H320: Causes eye irritation.

**Precautionary statement:**

P264: Wash hands thoroughly after handling.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical attention.

**Hazards not otherwise classified:**

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

**Section 3 Composition / information on ingredients**

Chemical Name	CAS #	%	EINECS
Water	7732-18-5	94.1%	231-791-2
Acetic acid	64-19-7	5.9%	200-580-7

**Section 4 First aid measures**

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

**Section 5 Fire fighting measures****Suitable Extinguishing Media:** Carbon dioxide, dry chemical, dry sand, alcohol foam.**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This chemical reacts violently with strong oxidizers, generating a fire and explosion hazard. Reacts violently with strong bases, strong acids and many other compounds.**Section 6 Accidental release measures****Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.**Containment and Cleanup:** Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

**Section 7 Handling and storage**

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, well-ventilated area away from incompatible substances. Keep away from ignition sources.

**Section 8 Exposure controls / personal protection**

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Acetic acid	TWA: 25 mg/m <sup>3</sup> STEL: 37 mg/m <sup>3</sup>	TWA: 25 mg/m <sup>3</sup>	TWA: 25 mg/m <sup>3</sup> STEL: 37 mg/m <sup>3</sup>

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

**Section 9 Physical and chemical properties**

<b>Appearance:</b> Clear, colorless liquid.	<b>Evaporation rate ( Water = 1):</b> <1	<b>Partition coefficient:</b> Data not available
<b>Odor:</b> Vinegar-like odor.	<b>Flammability (solid/gas):</b> Data not available.	<b>Auto-ignition temperature:</b> Data not available
<b>Odor threshold:</b> Data not available.	<b>Explosion limits: Lower / Upper:</b> Data not available	<b>Decomposition temperature:</b> Data not available.
<b>pH:</b> Data not available.	<b>Vapor pressure (mm Hg):</b> 14 (water)	<b>Viscosity:</b> Data not available.
<b>Melting / Freezing point:</b> Approximately 0°C (32°F) (water)	<b>Vapor density (Air = 1):</b> 0.7 (water)	<b>Molecular formula:</b> Mixture
<b>Boiling point:</b> Approximately 100°C (212°F) (water)	<b>Relative density (Specific gravity):</b> Approximately 1.0 (water)	<b>Molecular weight:</b> Mixture
<b>Flash point:</b> Data not available	<b>Solubility(ies):</b> Complete in water.	

**Section 10 Stability and reactivity**

**Chemical stability:** Stable      **Hazardous polymerization:** Will not occur.  
**Conditions to avoid:** Excessive temperatures, heat, sparks, open flame and other sources of ignition.

**Incompatible materials:** Bases, strong oxidizers, chromic acid, nitric acid, sodium peroxide, carbonates, hydroxides, phosphates. Corrosive to some metals. Potentially violent reaction with acetaldehyde and acetic anhydride. Ignites on contact with potassium-tert-botoxide.

**Hazardous decomposition products:** Carbon monoxide, hydrogen sulfide and other harmful gases or vapors including oxides and/or other compounds of sulfur and sodium.

**Section 11 Toxicological information**

**Acute toxicity:** Oral-rat LD50: 3,310 mg/kg ; Inhalation-rat LC50: 11.4 mg/L/4 hours ; Dermal-rabbit LD50: 1,060 mg/kg [Acetic acid, glacial]

**Skin corrosion/irritation:** Skin-rabbit - Severe irritant. [Acetic acid, glacial]

**Serious eye damage/irritation:** Eyes-rabbit - Severe irritant. [Acetic acid, glacial]

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** Data not available

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Data not available

**Potential health effects:**

Inhalation: May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

Skin: Contact with skin causes pain and redness.

Eyes: Contact with eyes may cause redness and pain.

**Signs and symptoms of exposure:** See Potential health effects above. Exercise appropriate procedures to minimize potential hazards.

**Additional information:** RTECS #: AF1225000 [Acetic acid, glacial]

**Section 12 Ecological information**

**Toxicity to fish:** *Gambusia affinis* (fish, fresh water), LC50 = 251 mg/L/24 hours [Acetic acid, glacial]

**Toxicity to daphnia and other aquatic invertebrates:** *Daphnia magna* (Crustacea), EC50 = 95 mg/L/24 hours [Acetic acid, glacial]

**Toxicity to algae:** *Euglena gracilis* (Algae), EC100 = 720 mg/L [Acetic acid, glacial]

**Persistence and degradability:** Easily biodegradable      **Bioaccumulative potential:** Not expected to bioaccumulate

**Mobility in soil:** No data available

**PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Section 13 Disposal considerations**

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

**Section 14 Transport information**

<b>UN/NA number:</b> Not applicable	<b>Shipping name:</b> Not Regulated	<b>Reportable Quantity:</b> No	<b>Marine pollutant:</b> No
<b>Hazard class:</b> Not applicable	<b>Packing group:</b> Not applicable		
<b>Exceptions:</b> Not applicable	<b>2020 ERG Guide #</b> Not applicable		

**Section 15 Regulatory information**

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Acetic acid, glacial	Listed	5,000 lbs (2270 kg)	D001, D002	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

**Section 16 Other information**

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.



## Cargill Gel 03420

### SECTION 1: Identification

#### Product identifier

Brandname	Cargill Gel 03420
Product name	Corn Starch
REACH status	Exempt
Revision date	20-02-2015

#### Relevant identified uses of the substance

Binding or texturizing agent in food applications

#### Company identification

Cargill, Incorporated, Cargill Texturizing Solutions  
15407 McGinty Road West  
Wayzata, MN 55391-2399  
US

Non emergency telephone +1 877 650 7080

#### Emergency telephone number

Emergency telephone +1-800-255-3924 / +1-813-248-0585

### SECTION 2: Hazards identification

#### Physical hazards

Not classified.

#### Health hazards

Not classified.

#### OSHA defined hazards

Combustible dust

#### Label element(s)

#### Hazard symbol

None.

#### Signal word

WARNING

#### Hazard statement

May form combustible dust concentrations in air.

#### Precautionary statements

#### Prevention

**Cargill Gel 03420**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed.  
Ground/bond container and receiving equipment. Prevent dust accumulation to minimize explosion hazard.

**Response**

Wash hands after handling.

**Storage**

Store away from incompatible materials.

**Disposal**

Dispose of waste and residues in accordance with local authority requirements.

**Hazard(s) not otherwise classified (HNOC)**

None known.

**Supplemental information**

Not applicable.

**SECTION 3: Composition/information on ingredients****Product identifiers substances**

Chemical name	CAS No
Starch	9005-25-8

**SECTION 4: First aid measures****Inhalation**

Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact**

Wash off with soap and water. Get medical attention if irritation develops and persists.

**Eye contact**

Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion**

Rinse mouth. Get medical attention if symptoms occur.

**Most important symptoms and effects, both acute and delayed**

Direct contact with eyes may cause temporary irritation.

**Information on medical attendance**

Provide general supportive measures and treat symptomatically.

**General information**

**Cargill Gel 03420**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**SECTION 5: Firefighting measures****Suitable extinguishing media**

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>). Apply extinguishing media carefully to avoid creating airborne dust.

**Unsuitable extinguishing media**

None known.

**Specific hazards arising from the chemical**

Dust may form explosive mixture with air. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

**Special protective equipment and precautions for firefighter**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire fighting equipment/instructions**

In the event of fire, cool tanks with water spray.

**Specific methods**

Cool containers exposed to flames with water until well after the fire is out.

**General fire hazards**

No unusual fire or explosion hazards noted.

**SECTION 6: Accidental release measures****Personal precautions**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Wear appropriate personal protective equipment. Use only non-sparking tools. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

**Methods for cleaning up**

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

## Cargill Gel 03420

### SECTION 7: Handling and storage

#### Precautions for safe handling

Use with adequate ventilation. Eliminate all sources of ignition. Minimize dust generation and accumulation. Combustible dust clouds may be created where operations produce fine material (dust). Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Handling and processing operations should be conducted in accordance with 'best practices' (e.g. NFPA-654). Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid direct contact with eyes.

#### Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

### SECTION 8: Exposure controls/personal protection

#### Occupational exposure limits

##### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Material	Type	Value	Form
Corn starch (CAS Mixture)	PEL	5 mg/m <sup>3</sup>	Respirable fraction.
		15 mg/m <sup>3</sup>	Total dust.

Components	Type	Value	Form
Corn starch (CAS 9005-25-8)	PEL	5 mg/m <sup>3</sup>	Respirable fraction.
		15 mg/m <sup>3</sup>	Total dust.

##### US. ACGIH Threshold Limit Values

Material	Type	Value
Corn starch (CAS Mixture)	TWA	10 mg/m <sup>3</sup>

Components	Type	Value
Corn Starch (CAS 9005-25-8)	TWA	10 mg/m <sup>3</sup>

##### US. NIOSH: Pocket Guide to Chemical Hazards

Material	Type	Value	
Corn starch (CAS Mixture)	TWA	5 mg/m <sup>3</sup>	Respirable.
		10 mg/m <sup>3</sup>	Total

Components	Type	Value	Form
Corn Starch (CAS 9005-25-8)	TWA	5 mg/m <sup>3</sup>	Respirable.
		10 mg/m <sup>3</sup>	Total

#### Biological limit values

No biological exposure limits noted for the ingredient(s).

**Cargill Gel 03420****Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Not normally needed. If contact is likely, safety glasses with side shields are recommended.

**Skin protection****Hand protection**

Gloves are not required. Gloves are recommended for prolonged use.

**Other**

Wear suitable protective clothing.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards**

Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties**

Appearance	Solid powder.
Color	White to off white.
Odor	Odorless.
Odor threshold	Not available.
pH	Not available.
Melting Point/ freezing point	Not available.
Initial boiling point and boiling range (°C)	Not available.
Flash Point	Not available.
Evaporation rate	Not available.

**Cargill Gel 03420**

Flammability (solid, gas)	Combustible dust.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Explosive limit lower	Not available.
Explosive limit upper	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility in water	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
pH in aqueous solution	4 - 8.5

**SECTION 10: Stability and reactivity****Reactivity**

The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability**

Material is stable under normal conditions.

**Possibility of hazardous reactions**

No dangerous reaction known under conditions of normal use.

**Conditions to avoid**

Keep away from heat, sparks and open flame. Minimize dust generation and accumulation. Contact with incompatible materials. Humidity.

**Incompatible materials**

Strong oxidizing agents.

**Hazardous decomposition products**

Carbon oxides.

**SECTION 11: Toxicological information****Information on likely routes of exposure****Inhalation**

No adverse effects due to inhalation are expected.

**Skin contact**



## Cargill Gel 03420

May cause skin irritation.

### Eye contact

May cause eye irritation.

### Ingestion

Ingestion may cause irritation and malaise.

### Symptoms related to the physical, chemical and toxicological

Irritant effects.

### Information on toxicological effects

#### Acute toxicity

Not available.

#### Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

#### Serious eye damage/eye irritation

Direct contact with eyes may cause temporary irritation.

#### Respiratory or skin sensitization

#### Respiratory sensitization

No data available.

#### Skin sensitization

No data available.

#### Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

#### Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

#### OSHA Specifically Regulated Substances 29 CFR 1910.1001-1050

Not listed.

#### Reproductive toxicity

No data available.

#### Specific target organ toxicity - single exposure

No data available.

#### Specific target organ toxicity - repeated exposure

No data available.

**Cargill Gel 03420****Aspiration hazard**

No data available.

**SECTION 12: Ecological information****Ecotoxicity**

Not expected to be harmful to aquatic organisms.

**Persistence and degradability**

No data is available on the degradability of this product.

**Bioaccumulative potential**

No data available for this product.

**Mobility in soil**

No data available.

**Other adverse effects**

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**SECTION 13: Disposal considerations****Disposal instructions**

Disposal should be conducted in accordance with Federal, State, and/or Local regulations.

**Hazardous waste code**

No data available

**Waste from residues / unused products**

Disposal should be conducted in accordance with Federal, State, and/or Local regulations.

**Contaminated packaging**

Since emptied containers may retain product residue, follow SDS precautions and label warnings even after container is emptied.

**SECTION 14: Transport information****Transport hazard class(es)**

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.



## Cargill Gel 03420

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Not established.

### **SECTION 15: Regulatory information**

#### US federal regulations

This product is hazardous according to OSHA 29 CFR 1910.1200 due to the potential for dust explosion.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)  
Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)  
Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)  
Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

SARA 302 Extremely hazardous substance  
Not listed.

SARA 311/312 Hazardous chemical  
Yes

SARA 313 (TRI reporting)  
Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List  
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)  
Not regulated.

Safe Drinking Water Act (SDWA)  
Not regulated.

#### US state regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US. Massachusetts RTK - Substance List  
Corn starch (CAS 9005-25-8)

US. New Jersey Worker and Community Right-to-Know Act  
Not listed.



## Cargill Gel 03420

US. Pennsylvania Worker and Community Right-to-Know Law  
Corn starch (CAS 9005-25-8)

US. Rhode Island RTK  
Not regulated.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance  
Not listed.

**Inventory status**

Country(s) or region	Inventory name	On inventory
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

**Remark**

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).  
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**SECTION 16: Other information****Revision information**

Date of first issue 20-02-2015

**Further information**

Refer to NFPA 61, Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities, for safe handling.

Disclaimer:



**Cargill Gel 03420**

The information contained herein is believed to be true and accurate. However, all statements, recommendations or suggestions are made without any guarantee, representation or warranty, express or implied, on our part. Therefore, no warranty is made or to be implied that the information set out in this document is accurate or complete, and we accordingly exclude all liability in connection with the use of this information or the products referred to herein. All such risks are assumed by the purchaser/user. For the avoidance of doubt, however, nothing in this document excludes or limits our liability for death or personal injury caused by our negligence or for fraudulent misrepresentation.



First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

#### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

1020 – Blue Liquid Color	
ACGIH	Not applicable
OSHA	Not applicable

### 8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear eye protection and protective gloves. protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Refer to specification sheet
Odor	: characteristic
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 200 °F
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.017
Solubility	: Miscible with water. Water: N/A
Log Pow	: No data available
Log K <sub>ow</sub>	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

**10.2. Chemical stability**

Not established.

**10.3. Possibility of hazardous reactions**

Not established.

**10.4. Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

**10.5. Incompatible materials**

Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

fume. Carbon monoxide. Carbon dioxide.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Acute toxicity : Not classified

<b>Proprietary Flavor Ingredient - p322</b>	
LD50 oral rat	20000 mg/kg (Rat; Experimental value)
LD50 dermal rat	22500 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	20800 mg/kg (Rabbit; Experimental value)
ATE US (oral)	20000.000 mg/kg body weight
ATE US (dermal)	20800.000 mg/kg body weight

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

**12.1. Toxicity**

No additional information available

**12.2. Persistence and degradability**

<b>1020 - Blue Liquid Color</b>	
Persistence and degradability	Not established.

**12.3. Bioaccumulative potential**

<b>1020 - Blue Liquid Color</b>	
Bioaccumulative potential	Not established.

**12.4. Mobility in soil**

No additional information available

## 12.5. Other adverse effects

Effect on ozone layer :  
Effect on the global warming : No known ecological damage caused by this product.  
Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT  
Not regulated for transport  
**Additional information**  
Other information : No supplementary information available.

### ADR

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Proprietary Flavor Ingredient - p322

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

#### 15.2.2. National regulations

### 15.3. US State regulations

#### Proprietary Flavor Ingredient - p322

U.S. - New Jersey - Right to Know Hazardous Substance List

## SECTION 16: Other information

### Other information

: **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.



MATERIAL SAFETY DATA SHEET

001 0013579

FOR: GORDON FOOD SERVICE

FOR CHEMICAL EMERGENCY  
SPILL LEAK FIRE EXPOSURE OR ACCIDENT  
CALL CHEMTREC DAY OR NIGHT

DOMESTIC NORTH AMERICA 800-424-9300  
INTERNATIONAL, CALL 703-527-3887 (COLLECT CALLS ACCEPTED)

MATERIAL ID: 23.1331 DATE PREPARED: 2/24/10  
CUSTOMER PART#: 979992

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: GREEN COLOR W.S. (GFS# 573051)  
FORMULA : #23.1331  
CAS NUMBER :

SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

COMPONENTS	CAS NUMBER	% BY WEIGHT	OSHA PEL (ppm)	ACGIH TLV (ppm)	*NOTE*
NONE.					

SECTION III - PHYSICAL DATA

BOILING POINT: NOT AVAILABLE SPECIFIC GRAVITY: 1.01 (+/- .05)  
VAPOR PRESSURE: NOT AVAILABLE VAPOR DENSITY (AIR=1): HEAVIER  
SOLUBILITY IN WATER: SOLUBLE

APPEARANCE AND ODOR:  
AN OPAQUE DARK GREEN LIQUID HAVING NO CHARACTERISTIC FLAVOR OR ODOR.

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (TAG CLOSED CUP): >200 DEG. F.

FLAMMABLE LIMITS (% VOLUME IN AIR) LEL: NOT KNOWN UEL: NOT KNOWN

EXTINGUISHING MEDIA:  
CARBON DIOXIDE, DRY CHEMICAL OR UNIVERSAL-TYPE FOAM APPLIED ACCORDING TO  
MANUFACTURER'S TECHNIQUES. WATER SPRAY.



SPECIAL FIRE-FIGHTING PROCEDURES:  
WEAR SELF-CONTAINED BREATHING APPARATUS AND COMPLETE PERSONAL PROTECTIVE EQUIPMENT.

UNUSUAL FIRE AND/OR EXPLOSION HAZARDS:  
CLOSED CONTAINERS MAY BUILD UP AT ELEVATED TEMPERATURES. IF POSSIBLE, CONTAINERS SHOULD BE COOLED WITH A WATER SPRAY.

NFPA CODES - HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

-----  
SECTION V - REACTIVITY DATA  
-----

STABILITY:  
STABLE. AVOID HEAT, SPARKS AND OPEN FLAMES.

INCOMPATIBILITY:  
AVOID CONTACT WITH STRONG ALKALIES AND OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:  
BURNING CAN PRODUCE CARBON DIOXIDE AND/OR CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION:  
WILL NOT OCCUR.

-----  
SECTION VI - HEALTH AND HAZARD DATA / FIRST AID  
-----

EFFECTS OF OVER-EXPOSURE  
-----

EYES:  
MAY CAUSE EYE IRRITATION BY DIRECT CONTACT OR FROM FUMES.

SKIN:  
PROLONGED CONTACT MAY LEAD TO IRRITATION AND DERMATITIS.

BREATHING:  
MAY CAUSE RESPIRATORY TRACT IRRITATION.

SWALLOWING:  
HARMFUL IF SWALLOWED IN CONCENTRATED FORM. CONCENTRATED COLORING AGENT.

EMERGENCY FIRST AID PROCEDURES  
-----

EYES:  
FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, CONTACT A DOCTOR.

SKIN:  
WASH SKIN WITH SOAP AND PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE WEARING AGAIN.

BREATHING:  
REMOVE VICTIM TO FRESH AIR. IF BREATHING BECOMES DIFFICULT SEEK IMMEDIATE MEDICAL ATTENTION.

SWALLOWING:  
IF SWALLOWED, DRINK MILK OR WATER AND CONTACT A DOCTOR IMMEDIATELY.



-----  
SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE  
-----

-----  
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE  
-----

STORE IN TIGHTLY SEALED CONTAINERS IN A COOL DRY PLACE THAT IS WELL VENTILATED.

-----  
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  
-----

SMALL SPILL:

COVER WITH A NON-COMBUSTIBLE MATERIAL AND REMOVE TO AN APPROVED DISPOSAL CONTAINER. WASH AREA WITH SOAP AND WATER.

LARGE SPILL:

AVOID SOURCES OF IGNITION. CONTAIN SPILLED MATERIAL. COVER WITH A NON-COMBUSTIBLE MATERIAL AND REMOVE TO AN APPROVED DISPOSAL CONTAINER. AVOID INHALATION OF VAPORS. IF IN A CONFINED AREA, NIOSH APPROVED RESPIRATORY PROTECTION MAY BE REQUIRED. WASH AREA WITH SOAP AND WATER. DRY PRODUCTS SHOULD BE SWEEPED UP AND REMOVED TO AN APPROVED DISPOSAL CONTAINER. WASH AREA WITH SOAP AND WATER.

-----  
WASTE DISPOSAL METHOD  
-----

INCINERATE, BURY IN APPROVED MANNER OR DISPOSE OF USING ANY PROCEDURE WHICH IS IN CONFORMANCE WITH PERTINENT FEDERAL, STATE OR LOCAL REGULATIONS.

-----  
SECTION VIII - PROTECTIVE EQUIPMENT TO BE USED  
-----

RESPIRATORY PROTECTION:

IN WELL VENTILATED AREAS, RESPIRATORY PROTECTION IS NOT NORMALLY REQUIRED. IN POORLY VENTILATED AREAS USE NIOSH RESPIRATOR.

VENTILATION:

PROVIDE ADEQUATE VENTILATION USING A MECHANICAL EXHAUST FAN.

PROTECTIVE GLOVES:

CHEMICAL RESISTANT GLOVES RECOMMENDED.

EYE PROTECTION:

CHEMICAL SAFETY GOGGLES RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT:

EYE WASH STATION AND SAFETY SHOWER SHOULD BE EASILY ACCESSIBLE.

-----  
NOTE - THE INFORMATION CONTAINED HEREIN IS FURNISHED WITHOUT WARRANTY OF ANY KIND. EMPLOYERS SHOULD USE THIS INFORMATION ONLY AS A SUPPLEMENT TO OTHER INFORMATION GATHERED BY THEM AND MUST MAKE INDEPENDENT DETERMINATIONS OF SUITABILITY AND COMPLETENESS OF INFORMATION FROM ALL SOURCES TO ASSURE PROPER USE OF THESE MATERIALS AND THE SAFETY AND HEALTH OF EMPLOYEES.  
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- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunlight.

#### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

1100 – Red Liquid Color	
ACGIH	Not applicable
OSHA	Not applicable

### 8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear eye protection and protective gloves. protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Refer to specification sheet
Odor	: characteristic
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 200 °F
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.02
Solubility	: Miscible with water. Water: N/A
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

**10.2. Chemical stability**

Not established.

**10.3. Possibility of hazardous reactions**

Not established.

**10.4. Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

**10.5. Incompatible materials**

Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

fume. Carbon monoxide. Carbon dioxide.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

Acute toxicity : Not classified

<b>Proprietary Flavor Ingredient - p322</b>	
LD50 oral rat	20000 mg/kg (Rat; Experimental value)
LD50 dermal rat	22500 mg/kg (Rat; Experimental value)
LD50 dermal rabbit	20800 mg/kg (Rabbit; Experimental value)
ATE US (oral)	20000.000 mg/kg body weight
ATE US (dermal)	20800.000 mg/kg body weight

Skin corrosion/irritation : Not classified  
 Serious eye damage/irritation : Not classified  
 Respiratory or skin sensitization : Not classified  
 Germ cell mutagenicity : Not classified  
 Carcinogenicity : Not classified

Reproductive toxicity : Not classified  
 Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified  
 Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**

**12.1. Toxicity**

No additional information available

**12.2. Persistence and degradability**

<b>1100 – Red Liquid Color</b>	
Persistence and degradability	Not established.

**12.3. Bioaccumulative potential**

<b>1100 – Red Liquid Color</b>	
Bioaccumulative potential	Not established.

**12.4. Mobility in soil**

No additional information available

## 12.5. Other adverse effects

Effect on ozone layer :  
Effect on the global warming : No known ecological damage caused by this product.  
Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with DOT  
Not regulated for transport

### Additional information

Other information : No supplementary information available.

### ADR

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Proprietary Flavor Ingredient - 94

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Proprietary Flavor Ingredient - p322

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

### 15.2.2. National regulations

### 15.3. US State regulations

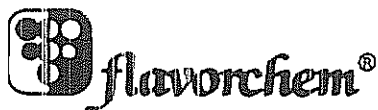
#### Proprietary Flavor Ingredient - p322

U.S. - New Jersey - Right to Know Hazardous Substance List

## SECTION 16: Other Information

Other information

: **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.



MATERIAL SAFETY DATA SHEET

001 0013579

FOR: GORDON FOOD SERVICE

FOR CHEMICAL EMERGENCY  
SPILL LEAK FIRE EXPOSURE OR ACCIDENT  
CALL CHEMTREC DAY OR NIGHT

DOMESTIC NORTH AMERICA 800-424-9300  
INTERNATIONAL, CALL 703-527-3887 (COLLECT CALLS ACCEPTED)

DATE PREPARED: 3/30/10  
MATERIAL ID: 23.1271 GQ CUSTOMER PART#: 111023

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: EGG SHADE GFS (QT) #23.1271 (111023)  
FORMULA : #23.1271  
CAS NUMBER :

SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

COMPONENTS	CAS NUMBER	% BY WEIGHT	OSHA PEL (ppm)	ACGIH TLV (ppm)	*NOTE*
NONE					

SECTION III - PHYSICAL DATA

BOILING POINT: NOT AVAILABLE      SPECIFIC GRAVITY: 1.01 (+/- .05)  
VAPOR PRESSURE: NOT AVAILABLE      VAPOR DENSITY (AIR=1): HEAVIER  
SOLUBILITY IN WATER: SOLUBLE

APPEARANCE AND ODOR:  
AN OPAQUE, ORANGE LIQUID HAVING NO CHARACTERISTIC FLAVOR OR ODOR.

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (TAG CLOSED CUP): >200 DEG. F.  
FLAMMABLE LIMITS (% VOLUME IN AIR)    LEL: NOT KNOWN      UEL: NOT KNOWN  
EXTINGUISHING MEDIA:  
CARBON DIOXIDE, DRY CHEMICAL OR UNIVERSAL-TYPE FOAM APPLIED ACCORDING TO  
MANUFACTURER'S TECHNIQUES. WATER SPRAY.



23.1271

PAGE 2

SPECIAL FIRE-FIGHTING PROCEDURES:  
WEAR SELF-CONTAINED BREATHING APPARATUS AND COMPLETE PERSONAL PROTECTIVE EQUIPMENT.

UNUSUAL FIRE AND/OR EXPLOSION HAZARDS:  
CLOSED CONTAINERS MAY BUILD UP AT ELEVATED TEMPERATURES. IF POSSIBLE, CONTAINERS SHOULD BE COOLED WITH A WATER SPRAY.

NFPA CODES - HEALTH: 1      FLAMMABILITY: 0      REACTIVITY: 0

-----  
SECTION V - REACTIVITY DATA  
-----

STABILITY:  
STABLE. AVOID HEAT, SPARKS AND OPEN FLAMES.

INCOMPATIBILITY:  
AVOID CONTACT WITH STRONG ALKALIES AND OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:  
BURNING CAN PRODUCE CARBON DIOXIDE AND/OR CARBON MONOXIDE.

HAZARDOUS POLYMERIZATION:  
WILL NOT OCCUR.

-----  
SECTION VI - HEALTH AND HAZARD DATA / FIRST AID  
-----

EFFECTS OF OVER-EXPOSURE  
-----

EYES:  
MAY CAUSE EYE IRRITATION BY DIRECT CONTACT OR FROM FUMES.

SKIN:  
PROLONGED CONTACT MAY LEAD TO IRRITATION AND DERMATITIS.

BREATHING:  
MAY CAUSE RESPIRATORY TRACT IRRITATION.

SWALLOWING:  
HARMFUL IF SWALLOWED IN CONCENTRATED FORM.

EMERGENCY FIRST AID PROCEDURES  
-----

EYES:  
FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, CONTACT A DOCTOR.

SKIN:  
WASH SKIN WITH SOAP AND PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE WEARING AGAIN.

BREATHING:  
REMOVE VICTIM TO FRESH AIR. IF BREATHING BECOMES DIFFICULT SEEK IMMEDIATE MEDICAL ATTENTION.

SWALLOWING:  
IF SWALLOWED, DRINK MILK OR WATER AND CONTACT A DOCTOR IMMEDIATELY.



-----  
SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE  
-----

STORE IN TIGHTLY SEALED CONTAINERS IN A COOL DRY PLACE THAT IS WELL VENTILATED.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED  
-----

SMALL SPILL:

COVER WITH A NON-COMBUSTIBLE MATERIAL AND REMOVE TO AN APPROVED DISPOSAL CONTAINER. WASH AREA WITH SOAP AND WATER.

LARGE SPILL:

AVOID SOURCES OF IGNITION. CONTAIN SPILLED MATERIAL. COVER WITH A NON-COMBUSTIBLE MATERIAL AND REMOVE TO AN APPROVED DISPOSAL CONTAINER. AVOID INHALATION OF VAPORS. IF IN A CONFINED AREA, NIOSH APPROVED RESPIRATORY PROTECTION MAY BE REQUIRED. WASH AREA WITH SOAP AND WATER. DRY PRODUCTS SHOULD BE SWEEPED UP AND REMOVED TO AN APPROVED DISPOSAL CONTAINER. WASH AREA WITH SOAP AND WATER.

WASTE DISPOSAL METHOD  
-----

INCINERATE, BURY IN APPROVED MANNER OR DISPOSE OF USING ANY PROCEDURE WHICH IS IN CONFORMANCE WITH PERTINENT FEDERAL, STATE OR LOCAL REGULATIONS.

-----  
SECTION VIII - PROTECTIVE EQUIPMENT TO BE USED  
-----

RESPIRATORY PROTECTION:

IN WELL VENTILATED AREAS, RESPIRATORY PROTECTION IS NOT NORMALLY REQUIRED. IN POORLY VENTILATED AREAS, USE NIOSH RESPIRATOR.

VENTILATION:

PROVIDE ADEQUATE VENTILATION USING A MECHANICAL EXHAUST FAN.

PROTECTIVE GLOVES:

CHEMICAL RESISTANT GLOVES RECOMMENDED.

EYE PROTECTION:

CHEMICAL SAFETY GOGGLES RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT:

EYE WASH STATION AND SAFETY SHOWER SHOULD BE EASILY ACCESSIBLE.

-----  
NOTE - THE INFORMATION CONTAINED HEREIN IS FURNISHED WITHOUT WARRANTY OF ANY KIND. EMPLOYERS SHOULD USE THIS INFORMATION ONLY AS A SUPPLEMENT TO OTHER INFORMATION GATHERED BY THEM AND MUST MAKE INDEPENDENT DETERMINATIONS OF SUITABILITY AND COMPLETENESS OF INFORMATION FROM ALL SOURCES TO ASSURE PROPER USE OF THESE MATERIALS AND THE SAFETY AND HEALTH OF EMPLOYEES.  
-----



# SAFETY DATA SHEET

## 1. Product and Company Identification

**Product Identifier** Iodized Salt

**Other means of identification  
Synonyms** Superior Iodized Table Salt  
Private Label Brand Iodized Table Salt  
Superior TX-10 Iodized Salt

**Recommended Use** Food applications

**Recommended Restrictions** None Known

**Manufacturer** US Salt LLC  
3580 Salt Point Road  
Watkins Glen, NY 14891  
Phone: 607-535-2721

**Emergency Telephone Number** CHEMTREC (800) 424-9300

## 2. Hazard(s) Identification

**Physical Hazards** Not Classified

**Health Hazards** Not Classified

**Environmental Hazards** Not Classified

**OSHA Defined Hazards** Not Classified

### Label Elements

**Hazard Symbol** None

**Signal Word** None

**Hazard Statement** The product does not meet the criteria for classification

**Precautionary Statement**

**Prevention** Observe good industrial hygiene practices

**Response** Wash hands after handling

**Storage** Store away from incompatible materials

**Disposal** Dispose of waste and residues in accordance with local authority requirements

**Hazard(s) not otherwise  
Classified (HNOC)** None Known

## 3. Composition / Information on Ingredients

### Salt and/or Salt Mixtures

Chemical Name	CAS #	%
Sodium Chloride	7647-14-5	99.0-99.7
Sodium Silicoaluminate	1344-00-9	< 0.70
Dextrose	50-99-7	0.02-0.03
Sodium Bicarbonate	144-55-8	0.00-0.01
Potassium Iodide	7681-11-0	0.006-0.010
Sodium Ferrocyanide	13601-19-9	0.00-0.0013

GRAS Substance (Generally Recognized as Safe)

## 4. First Aid Measures

**Inhalation** Avoid breathing dust. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

**Skin Contact** Wash skin with soap and water. Get medical attention if irritation develops and persists.

**Eye Contact** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Give one or two glasses of water if person is alert and able to swallow. Get medical attention if symptoms occur.

**Most important  
symptoms/effects, acute and  
delayed** Direct contact with eyes may cause temporary irritation.

**Indication of immediate  
medical attention and special  
Treatment needed** Treat symptomatically

## 5. Fire Fighting Measures

<b>Suitable extinguishing media</b>	Salt and salt mixtures are non-combustible
<b>Unsuitable extinguishing media</b>	Not Applicable
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Use appropriate firefighting PPE as a general precaution.
<b>Fire-fighting equipment/instructions</b>	Salt is not combustible and is thus not the material of concern for firefighting equipment or methods.
<b>Specific methods</b>	In the event of a fire, equipment and methods that are consistent with the combusting material should be used.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

## 6. Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Avoid generation and spreading of dust. Avoid inhalation of dust and contact with skin and eyes. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Stop the flow of material, if this is without risk. If sweeping of a contaminated area is necessary, use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Avoid release to the environment. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid discharge into storm drains or sanitary sewers, groundwater or soil.

## 7. Handling and Storage

<b>Precautions for safe handling</b>	Use work methods which minimize dust production. Provide appropriate exhaust ventilation at places where dust is formed. Avoid inhalation of dust and contact with skin and eyes. Wash thoroughly after handling. Keep away from strong acids. Practice good housekeeping.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in closed original container in a dry place. Store away from incompatible materials (see section 10 of the SDS). Becomes hygroscopic at 70-75% relative humidity. Avoid humid or wet conditions as product will cake and become hard.

## 8. Exposure Controls / Personal Protection

**Occupational exposure limits** No exposures limits noted for ingredient(s).

### **US. ACGIH Threshold Limit Values**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Potassium Iodide (CAS 7681-11-0)	TWA	0.01 ppm	Inhalable Form and vapor
Sodium Silicoaluminate (CAS 1344-00-9)	TWA	1 mg/m <sup>3</sup>	Respirable Fraction

### **US. NIOSH Pocket Guide to Chemical Hazards**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Sodium Silicoaluminate	TWA	2 mg/m <sup>3</sup>

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls** TWA PEL: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, OSHA (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 5mg/cu.m. Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total Dust 8-Hour TWA PEL.

TWA TLV: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): 10mg/cu.m. Inhalable Particulate 8-Hours TWA TLV, 3mg/cu.m. Respirable Particulate TWA TLV.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

## Individual protection measures, such as personal protective equipment

<b>Eye/face protection</b>	Wear safety glasses with side shields. Wear a full-face respirator, if needed.
<b>Skin protection</b>	
<b>Hand protection</b>	If there is constant skin contact, rubber gloves are recommended.
<b>Other</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and Chemical Properties

<b>Appearance</b>	White crystalline solid
<b>Physical State</b>	Solid
<b>Form</b>	Crystalline Solid
<b>Color</b>	White
<b>Odor</b>	Halogen odor
<b>Odor Threshold</b>	Not applicable
<b>pH in aqueous solution</b>	4-9
<b>Melting point/freezing point</b>	1473.8 °F (801 °C)
<b>Initial boiling point and boiling range</b>	2669 °F (1465 °C) (760 mm Hg)
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit – lower (%)</b>	Not applicable
<b>Flammability limit – upper (%)</b>	Not applicable
<b>Explosive limit – lower (%)</b>	Not applicable
<b>Explosive limit – upper (%)</b>	Not applicable
<b>Vapor pressure</b>	2.4 mm Hg (1376.6 °F (747 °C))
<b>Vapor density</b>	Not applicable
<b>Relative density</b>	2.16 (H <sub>2</sub> O = 1)
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	26.4%
<b>Partition coefficient (n-octanol/water)</b>	Not applicable
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	Not applicable
<b>Viscosity</b>	Not applicable
<b>Other information</b>	
<b>Bulk density</b>	53 – 83 lb/ft <sup>3</sup>
<b>Molecular formula</b>	NaCl, 14SiO <sub>2</sub> ·Al <sub>2</sub> O <sub>3</sub> ·Na <sub>2</sub> ·3H <sub>2</sub> O, NaHCO <sub>3</sub> , KI, Na <sub>4</sub> Fe(CN) <sub>6</sub> ·10H <sub>2</sub> O
<b>Molecular weight</b>	58.44, 1059.3, 84.0, 166.02, 484.06

## 10. Stability and Reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials, i.e. strong oxidizing agents.
<b>Incompatible materials</b>	Strong oxidizing agents, strong acids. Becomes corrosive to metals when wet.
<b>Hazardous decomposition products</b>	Chlorine gas, hydrogen chloride, oxides of sodium.

## 11. Toxicological Information

### Information on likely routes of exposure

<b>Ingestion</b>	Expected to be low ingestion hazard
<b>Inhalation</b>	High concentrations of dust may irritate throat and respiratory system and cause coughing.
<b>Skin contact</b>	Dust may irritate skin. May cause irritation through mechanical abrasion.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.

**Symptoms related to the physical, chemical and toxicological characteristics**  
Dust may cause eye, skin and respiratory tract irritation. Exposed individuals may experience eye tearing, redness and discomfort.

### Information on toxicological effects

**Acute toxicity**  
In some cases of confirmed hypertension, ingestion may result in elevated blood pressure. Ingestion of large amounts (greater than 0.1 pound) can cause gastrointestinal upset and irritation of the stomach. Rare cases of over exposure can lead to systemic toxicity related to the binding of ionized blood calcium.

<b>Product</b>	<b>Species</b>	<b>Test Results</b>
Sodium Chloride (CAS 7647-14-5)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Mouse	4000 mg/kg
	Rat	3000 mg/kg
<i>Other</i>		
LD50	Mouse	2602 mg/kg
Sodium Silicoaluminate (CAS 1344-00-9)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg, 24 hours
<i>Inhalation</i>		
	Rat	> 2.08 mg/l, 4 hours
Dextrose (CAS		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	25,800 mg/kg
Potassium Iodide		
<b>Acute</b>		
<i>Oral</i>		
LD50		500-5000 mg/kg
	Mouse	1000 mg/kg
	Rat	4340 mg/kg
<i>Other</i>		
LD50	Mouse	430 mg/kg
	Rat	> 285 mg/kg

Product	Species	Test Results
Sodium Bicarbonate (CAS 144-55-8)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	> 4000 mg/kg
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation	
<b>Serious eye damage/eye irritation</b>	Dust in the eyes will cause irritation	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not available	
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization	
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic	
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA	
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Specific target organ toxicity - single exposure</b>	Not classified	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified	
<b>Aspiration Hazard</b>	Due to the physical form of the product, it is not considered an aspiration hazard.	

## 12. Ecological Information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Sodium Chloride (CAS 7647-14-5)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 340.7 – 469.2 mg/l, 48 hours
Fish	LC50	Rainbow trout, Donaldson trout ( <i>Oncorhynchus mykiss</i> ) 4747 – 7824 mg/l, 96 hours
Sodium Aluminosilicate (CAS 1344-00-9)		
<b>Aquatic</b>		
Fish	LC50	Guppy ( <i>Poecilia reticulata</i> ) 1800 – 3200 mg/l, 96 hours
Potassium Iodide (CAS 7681-11-0)		
<b>Aquatic</b>		
Fish	LC50	Rainbow trout, Donaldson trout ( <i>Oncorhynchus mykiss</i> ) 896 mg/l, 96 hours
Sodium Bicarbonate (CAS 144-55-8)		
<b>Aquatic</b>		
Crustacea	EC50	Daphnia 2350 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> ) 8600 mg/l, 96 hours
<b>Persistence and degradability</b>	No data is available on the degradability of this product	
<b>Bioaccumulative potential</b>	No data available	
Partition coefficient n-octanol/water (log Kow)		
Dextrose (CAS 50-99-7)	-3.24	
<b>Mobility in soil</b>	No data available	
<b>Mobility in general</b>	No data available	
<b>Other Adverse effects</b>	None known	

### **13. Disposal Considerations**

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal Instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since Emptied containers may retain product residue, follow label warnings even after container is emptied.

### **14. Transport Information**

#### **U.S. Department of Transportation (DOT)**

Not regulated as dangerous goods.

#### **Transportation of Dangerous Goods (TDG – Canada)**

Not regulated as dangerous goods.

#### **IATA**

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not Applicable

### **15. Regulatory Information**

#### **US Federal Regulations**

All components are on the U.S. EPA TSCA Inventory List  
This product is not known to be a "hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated

#### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed

#### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated

#### **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPS) List**

Not regulated

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<b>Hazard Categories</b>	Immediate Hazard – No Delayed Hazard – No Fire Hazard – No Pressure Hazard – No Reactivity Hazard – No
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<b>SARA 302 Extremely Hazardous Substance</b>	No
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<b>SARA 311/312 Hazardous Chemical</b>	No
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<b>SARA 313 (TRI reporting)</b>	Not regulated
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#### **Other federal regulations**

<b>Safe Drinking Water Act (SDWA)</b>	Not regulated
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## US state regulations

### US Massachusetts RTK – Substance List

Not regulated

### US New Jersey Worker and Community Right-to Know Act

Not listed

### US Pennsylvania Worker and Community Right-to-Know Law

Sodium Silicoaluminate (CAS 1344-00-9)

### US Rhode Island RTK

Not regulated

### US California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### US – California Proposition 65 – Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

## International Inventories

<u>Country(s) or region</u>	<u>Inventory name</u>	<u>On inventory (Yes/No)*</u>
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ENCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or are exempt from listing on the inventory administered by the governing country(s)

## 16. Other Information, including date of preparation or last revision

<b>Issue Date</b>	01-March-2015
<b>Revision Date</b>	-
<b>Version #</b>	01

### Legend

Severe	4	<b>HMIS Ratings</b>	Health	1
Serious	3		Flammability	0
Moderate	2		Physical Hazard	0
Slight	1		Personal protection	A
Minimal	0	<b>NFPA Ratings</b>	Health	1
			Flammability	0
			Reactivity	0

### **Disclaimer**

The information contained herein was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the manufacturer's control, it is the users responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies may have specific regulations concerning the transportation, handling storage, use or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.

**Section 1 Identification**

Page E1 of E2



**Aldon** 221 Rochester Street  
Avon, NY 14414  
(585) 226-6177

**CHEMTREC 24 Hour Emergency**  
**Phone Number (800) 424-9300**  
For laboratory and industrial use only.  
Not for drug, food or household use.

<b>Product</b>	ACETIC ACID, 1 MOLAR SOLUTION
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<b>Synonyms</b>	Acetic Acid, Water Solution
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**Section 2 Hazards identification****Signal word:** WARNING**Pictograms:** No symbol required**Target organs:** None known**GHS Classification:**

Eye irritation (Category 2B)

**GHS Label information: Hazard statement:**

H320: Causes eye irritation.

**Precautionary statement:**

P264: Wash hands thoroughly after handling.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical attention.

**Hazards not otherwise classified:**

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

**Section 3 Composition / information on ingredients**

Chemical Name	CAS #	%	EINECS
Water	7732-18-5	94.1%	231-791-2
Acetic acid	64-19-7	5.9%	200-580-7

**Section 4 First aid measures**

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

**Section 5 Fire fighting measures****Suitable Extinguishing Media:** Carbon dioxide, dry chemical, dry sand, alcohol foam.**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This chemical reacts violently with strong oxidizers, generating a fire and explosion hazard. Reacts violently with strong bases, strong acids and many other compounds.**Section 6 Accidental release measures****Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.**Containment and Cleanup:** Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

**Section 7 Handling and storage**

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, well-ventilated area away from incompatible substances. Keep away from ignition sources.

**Section 8 Exposure controls / personal protection**

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Acetic acid	TWA: 25 mg/m <sup>3</sup> STEL: 37 mg/m <sup>3</sup>	TWA: 25 mg/m <sup>3</sup>	TWA: 25 mg/m <sup>3</sup> STEL: 37 mg/m <sup>3</sup>

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

**Section 9 Physical and chemical properties**

<b>Appearance:</b> Clear, colorless liquid.	<b>Evaporation rate ( Water = 1):</b> <1	<b>Partition coefficient:</b> Data not available
<b>Odor:</b> Vinegar-like odor.	<b>Flammability (solid/gas):</b> Data not available.	<b>Auto-ignition temperature:</b> Data not available
<b>Odor threshold:</b> Data not available.	<b>Explosion limits: Lower / Upper:</b> Data not available	<b>Decomposition temperature:</b> Data not available.
<b>pH:</b> Data not available.	<b>Vapor pressure (mm Hg):</b> 14 (water)	<b>Viscosity:</b> Data not available.
<b>Melting / Freezing point:</b> Approximately 0°C (32°F) (water)	<b>Vapor density (Air = 1):</b> 0.7 (water)	<b>Molecular formula:</b> Mixture
<b>Boiling point:</b> Approximately 100°C (212°F) (water)	<b>Relative density (Specific gravity):</b> Approximately 1.0 (water)	<b>Molecular weight:</b> Mixture
<b>Flash point:</b> Data not available	<b>Solubility(ies):</b> Complete in water.	

**Section 10 Stability and reactivity**

**Chemical stability:** Stable **Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Excessive temperatures, heat, sparks, open flame and other sources of ignition.

**Incompatible materials:** Bases, strong oxidizers, chromic acid, nitric acid, sodium peroxide, carbonates, hydroxides, phosphates. Corrosive to some metals. Potentially violent reaction with acetaldehyde and acetic anhydride. Ignites on contact with potassium-tert-botoxide.

**Hazardous decomposition products:** Carbon monoxide, hydrogen sulfide and other harmful gases or vapors including oxides and/or other compounds of sulfur and sodium.

**Section 11 Toxicological information**

**Acute toxicity:** Oral-rat LD50: 3,310 mg/kg ; Inhalation-rat LC50: 11.4 mg/L/4 hours ; Dermal-rabbit LD50: 1,060 mg/kg [Acetic acid, glacial]

**Skin corrosion/irritation:** Skin-rabbit - Severe irritant. [Acetic acid, glacial]

**Serious eye damage/irritation:** Eyes-rabbit - Severe irritant. [Acetic acid, glacial]

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Ca Prop 65:** This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** Data not available

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Data not available

**Potential health effects:**

**Inhalation:** May be harmful if inhaled.

**Ingestion:** May be harmful if swallowed.

**Skin:** Contact with skin causes pain and redness.

**Eyes:** Contact with eyes may cause redness and pain.

**Signs and symptoms of exposure:** See Potential health effects above. Exercise appropriate procedures to minimize potential hazards.

**Additional information:** RTECS #: AF1225000 [Acetic acid, glacial]

**Section 12 Ecological information**

**Toxicity to fish:** *Gambusia affinis* (fish, fresh water), LC50 = 251 mg/L/24 hours [Acetic acid, glacial]

**Toxicity to daphnia and other aquatic invertebrates:** *Daphnia magna* (Crustacea), EC50 = 95 mg/L/24 hours [Acetic acid, glacial]

**Toxicity to algae:** *Euglena gracilis* (Algae), EC100 = 720 mg/L [Acetic acid, glacial]

**Persistence and degradability:** Easily biodegradable **Bioaccumulative potential:** Not expected to bioaccumulate

**Mobility in soil:** No data available

**PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Section 13 Disposal considerations**

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

**Section 14 Transport information**

<b>UN/NA number:</b> Not applicable	<b>Shipping name:</b> Not Regulated	<b>Reportable Quantity:</b> No	<b>Marine pollutant:</b> No
<b>Hazard class:</b> Not applicable	<b>Packing group:</b> Not applicable		
<b>Exceptions:</b> Not applicable	<b>2020 ERG Guide #</b> Not applicable		

**Section 15 Regulatory information**

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Acetic acid, glacial	Listed	5,000 lbs (2270 kg)	D001, D002	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

**Section 16 Other information**

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

## 1. Product and Company Identification

**Product Identifier** Iodized Salt

**Other means of identification  
Synonyms** Superior Iodized Table Salt  
Private Label Brand Iodized Table Salt  
Superior TX-10 Iodized Salt

**Recommended Use** Food applications

**Recommended Restrictions** None Known

**Manufacturer** US Salt LLC  
3580 Salt Point Road  
Watkins Glen, NY 14891  
Phone: 607-535-2721

**Emergency Telephone Number** CHEMTREC (800) 424-9300

## 2. Hazard(s) Identification

**Physical Hazards** Not Classified

**Health Hazards** Not Classified

**Environmental Hazards** Not Classified

**OSHA Defined Hazards** Not Classified

**Label Elements**

**Hazard Symbol** None

**Signal Word** None

**Hazard Statement** The product does not meet the criteria for classification

**Precautionary Statement**

**Prevention** Observe good industrial hygiene practices

**Response** Wash hands after handling

**Storage** Store away from incompatible materials

**Disposal** Dispose of waste and residues in accordance with local authority requirements

**Hazard(s) not otherwise  
Classified (HNOC)** None Known

## 3. Composition / Information on Ingredients

### Salt and/or Salt Mixtures

Chemical Name	CAS #	%
Sodium Chloride	7647-14-5	99.0-99.7
Sodium Silicoaluminate	1344-00-9	< 0.70
Dextrose	50-99-7	0.02-0.03
Sodium Bicarbonate	144-55-8	0.00-0.01
Potassium Iodide	7681-11-0	0.006-0.010
Sodium Ferrocyanide	13601-19-9	0.00-0.0013

GRAS Substance (Generally Recognized as Safe)

## 4. First Aid Measures

**Inhalation** Avoid breathing dust. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

**Skin Contact** Wash skin with soap and water. Get medical attention if irritation develops and persists.

**Eye Contact** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Give one or two glasses of water if person is alert and able to swallow. Get medical attention if symptoms occur.

**Most important  
symptoms/effects, acute and  
delayed** Direct contact with eyes may cause temporary irritation.

**Indication of immediate  
medical attention and special  
Treatment needed** Treat symptomatically

## 5. Fire Fighting Measures

<b>Suitable extinguishing media</b>	Salt and salt mixtures are non-combustible
<b>Unsuitable extinguishing media</b>	Not Applicable
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Use appropriate firefighting PPE as a general precaution.
<b>Fire-fighting equipment/instructions</b>	Salt is not combustible and is thus not the material of concern for firefighting equipment or methods.
<b>Specific methods</b>	In the event of a fire, equipment and methods that are consistent with the combusting material should be used.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

## 6. Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Avoid generation and spreading of dust. Avoid inhalation of dust and contact with skin and eyes. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Stop the flow of material, if this is without risk. If sweeping of a contaminated area is necessary, use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Avoid release to the environment. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid discharge into storm drains or sanitary sewers, groundwater or soil.

## 7. Handling and Storage

<b>Precautions for safe handling</b>	Use work methods which minimize dust production. Provide appropriate exhaust ventilation at places where dust is formed. Avoid inhalation of dust and contact with skin and eyes. Wash thoroughly after handling. Keep away from strong acids. Practice good housekeeping.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in closed original container in a dry place. Store away from incompatible materials (see section 10 of the SDS). Becomes hygroscopic at 70-75% relative humidity. Avoid humid or wet conditions as product will cake and become hard.

## 8. Exposure Controls / Personal Protection

**Occupational exposure limits** No exposures limits noted for ingredient(s).

### **US. ACGIH Threshold Limit Values**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Potassium Iodide (CAS 7681-11-0)	TWA	0.01 ppm	Inhalable Form and vapor
Sodium Silicoaluminate (CAS 1344-00-9)	TWA	1 mg/m <sup>3</sup>	Respirable Fraction

### **US. NIOSH Pocket Guide to Chemical Hazards**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Sodium Silicoaluminate	TWA	2 mg/m <sup>3</sup>

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**

TWA PEL: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, OSHA (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 5mg/cu.m. Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total Dust 8-Hour TWA PEL.

TWA TLV: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): 10mg/cu.m. Inhalable Particulate 8-Hours TWA TLV, 3mg/cu.m. Respirable Particulate TWA TLV.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

## Individual protection measures, such as personal protective equipment

<b>Eye/face protection</b>	Wear safety glasses with side shields. Wear a full-face respirator, if needed.
<b>Skin protection</b>	
<b>Hand protection</b>	If there is constant skin contact, rubber gloves are recommended.
<b>Other</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and Chemical Properties

<b>Appearance</b>	White crystalline solid
<b>Physical State</b>	Solid
<b>Form</b>	Crystalline Solid
<b>Color</b>	White
<b>Odor</b>	Halogen odor
<b>Odor Threshold</b>	Not applicable
<b>pH in aqueous solution</b>	4-9
<b>Melting point/freezing point</b>	1473.8 °F (801 °C)
<b>Initial boiling point and boiling range</b>	2669 °F (1465 °C) (760 mm Hg)
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit – lower (%)</b>	Not applicable
<b>Flammability limit – upper (%)</b>	Not applicable
<b>Explosive limit – lower (%)</b>	Not applicable
<b>Explosive limit – upper (%)</b>	Not applicable
<b>Vapor pressure</b>	2.4 mm Hg (1376.6 °F (747 °C))
<b>Vapor density</b>	Not applicable
<b>Relative density</b>	2.16 (H <sub>2</sub> O = 1)
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	26.4%
<b>Partition coefficient (n-octanol/water)</b>	Not applicable
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	Not applicable
<b>Viscosity</b>	Not applicable
<b>Other information</b>	
<b>Bulk density</b>	53 – 83 lb/ft <sup>3</sup>
<b>Molecular formula</b>	NaCl, 14SiO <sub>2</sub> ·Al <sub>2</sub> O <sub>3</sub> ·Na <sub>2</sub> ·3H <sub>2</sub> O, NaHCO <sub>3</sub> , KI, Na <sub>4</sub> Fe(CN) <sub>6</sub> ·10H <sub>2</sub> O
<b>Molecular weight</b>	58.44, 1059.3, 84.0, 166.02, 484.06

## 10. Stability and Reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials, i.e. strong oxidizing agents.
<b>Incompatible materials</b>	Strong oxidizing agents, strong acids. Becomes corrosive to metals when wet.
<b>Hazardous decomposition products</b>	Chlorine gas, hydrogen chloride, oxides of sodium.

## 11. Toxicological Information

### Information on likely routes of exposure

<b>Ingestion</b>	Expected to be low ingestion hazard
<b>Inhalation</b>	High concentrations of dust may irritate throat and respiratory system and cause coughing.
<b>Skin contact</b>	Dust may irritate skin. May cause irritation through mechanical abrasion.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.

**Symptoms related to the physical, chemical and toxicological characteristics**  
Dust may cause eye, skin and respiratory tract irritation. Exposed individuals may experience eye tearing, redness and discomfort.

### Information on toxicological effects

**Acute toxicity**  
In some cases of confirmed hypertension, ingestion may result in elevated blood pressure. Ingestion of large amounts (greater than 0.1 pound) can cause gastrointestinal upset and irritation of the stomach. Rare cases of over exposure can lead to systemic toxicity related to the binding of ionized blood calcium.

<b>Product</b>	<b>Species</b>	<b>Test Results</b>
Sodium Chloride (CAS 7647-14-5)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Mouse	4000 mg/kg
	Rat	3000 mg/kg
<i>Other</i>		
LD50	Mouse	2602 mg/kg
Sodium Silicoaluminate (CAS 1344-00-9)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg, 24 hours
<i>Inhalation</i>		
	Rat	> 2.08 mg/l, 4 hours
Dextrose (CAS		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	25,800 mg/kg
Potassium Iodide		
<b>Acute</b>		
<i>Oral</i>		
LD50		500-5000 mg/kg
	Mouse	1000 mg/kg
	Rat	4340 mg/kg
<i>Other</i>		
LD50	Mouse	430 mg/kg
	Rat	> 285 mg/kg

Product	Species	Test Results
Sodium Bicarbonate (CAS 144-55-8)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	> 4000 mg/kg
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation	
<b>Serious eye damage/eye irritation</b>	Dust in the eyes will cause irritation	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not available	
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization	
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic	
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA	
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Specific target organ toxicity - single exposure</b>	Not classified	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified	
<b>Aspiration Hazard</b>	Due to the physical form of the product, it is not considered an aspiration hazard.	

## 12. Ecological Information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Sodium Chloride (CAS 7647-14-5)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 340.7 – 469.2 mg/l, 48 hours
Fish	LC50	Rainbow trout, Donaldson trout ( <i>Oncorhynchus mykiss</i> ) 4747 – 7824 mg/l, 96 hours
Sodium Aluminosilicate (CAS 1344-00-9)		
<b>Aquatic</b>		
Fish	LC50	Guppy ( <i>Poecilia reticulata</i> ) 1800 – 3200 mg/l, 96 hours
Potassium Iodide (CAS 7681-11-0)		
<b>Aquatic</b>		
Fish	LC50	Rainbow trout, Donaldson trout ( <i>Oncorhynchus mykiss</i> ) 896 mg/l, 96 hours
Sodium Bicarbonate (CAS 144-55-8)		
<b>Aquatic</b>		
Crustacea	EC50	Daphnia 2350 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> ) 8600 mg/l, 96 hours
<b>Persistence and degradability</b>	No data is available on the degradability of this product	
<b>Bioaccumulative potential</b>	No data available	
Partition coefficient n-octanol/water (log Kow)		
Dextrose (CAS 50-99-7)	-3.24	
<b>Mobility in soil</b>	No data available	
<b>Mobility in general</b>	No data available	
<b>Other Adverse effects</b>	None known	

### **13. Disposal Considerations**

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal Instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since Emptied containers may retain product residue, follow label warnings even after container is emptied.

### **14. Transport Information**

#### **U.S. Department of Transportation (DOT)**

Not regulated as dangerous goods.

#### **Transportation of Dangerous Goods (TDG – Canada)**

Not regulated as dangerous goods.

#### **IATA**

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not Applicable

### **15. Regulatory Information**

#### **US Federal Regulations**

All components are on the U.S. EPA TSCA Inventory List  
This product is not known to be a "hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated

#### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed

#### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated

#### **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPS) List**

Not regulated

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<b>Hazard Categories</b>	Immediate Hazard – No Delayed Hazard – No Fire Hazard – No Pressure Hazard – No Reactivity Hazard – No
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<b>SARA 302 Extremely Hazardous Substance</b>	No
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<b>SARA 311/312 Hazardous Chemical</b>	No
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<b>SARA 313 (TRI reporting)</b>	Not regulated
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#### **Other federal regulations**

<b>Safe Drinking Water Act (SDWA)</b>	Not regulated
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## US state regulations

### US Massachusetts RTK – Substance List

Not regulated

### US New Jersey Worker and Community Right-to Know Act

Not listed

### US Pennsylvania Worker and Community Right-to-Know Law

Sodium Silicoaluminate (CAS 1344-00-9)

### US Rhode Island RTK

Not regulated

### US California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### US – California Proposition 65 – Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

## International Inventories

<u>Country(s) or region</u>	<u>Inventory name</u>	<u>On inventory (Yes/No)*</u>
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ENCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or are exempt from listing on the inventory administered by the governing country(s)

## 16. Other Information, including date of preparation or last revision

<b>Issue Date</b>	01-March-2015
<b>Revision Date</b>	-
<b>Version #</b>	01

### Legend

Severe	4	<b>HMIS Ratings</b>	Health	1
Serious	3		Flammability	0
Moderate	2		Physical Hazard	0
Slight	1		Personal protection	A
Minimal	0	<b>NFPA Ratings</b>	Health	1
			Flammability	0
			Reactivity	0

### **Disclaimer**

The information contained herein was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the manufacturer's control, it is the users responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies may have specific regulations concerning the transportation, handling storage, use or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.

**Section 1 Identification**

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**Aldon** 221 Rochester Street  
Avon, NY 14414  
(585) 226-6177

**CHEMTREC 24 Hour Emergency**  
**Phone Number (800) 424-9300**  
For laboratory and industrial use only.  
Not for drug, food or household use.

**Product** HYDROCHLORIC ACID, 0.02 MOLAR (0.02 NORMAL) SOLUTION

**Synonyms** Muriatic Acid, Water Solution ; Hydrogen Chloride, Water Solution

**Section 2 Hazards Identification**

**Signal word:** WARNING

**Pictograms:** None required

**Target organs:** Respiratory system, skin, eyes, lungs.

**GHS Classification:**

Skin irritant (Category 3)

Eye irritant (Category 2B)

**GHS Label information:**

**Hazard statement(s):**

H316: Causes mild skin irritation.

H320: Causes eye irritation.

**Precautionary statement(s):**

P264: Wash hands thoroughly after handling.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313: If skin irritation occurs: Get medical attention.

P337+P313: If eye irritation persists: Get medical attention.

**Hazards not otherwise classified:**

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

**Section 3 Composition / Information on Ingredients**

Chemical Name	CAS #	%	EINECS
Water	7732-18-5	99.937%	231-791-2
Hydrochloric acid	7647-01-0	0.063%	231-595-7

**Section 4 First aid measures**

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** MAY CAUSE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY CAUSE IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

**Section 5 Fire fighting measures**

**Suitable Extinguishing Media:** Carbon dioxide, dry chemical, dry sand, alcohol foam.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Contact with metals produce hydrogen, which is flammable and may produce explosive mixtures with air.

**Section 6 Accidental release measures**

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Neutralize spill with sodium bicarbonate or calcium hydroxide, absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

**Section 7 Handling and storage**

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, well-ventilated area away from incompatible substances.

**Section 8 Exposure controls / personal protection**

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Hydrogen chloride	STEL: C 2 ppm / C 2.98 mg/m <sup>3</sup>	STEL: C 5 ppm / C 7 mg/m <sup>3</sup>	STEL: C 5 ppm / C 7 mg/m <sup>3</sup>

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

**Section 9 Physical and chemical properties**

<b>Appearance:</b> Clear, colorless liquid.	<b>Evaporation rate ( = 1):</b> Data not available.	<b>Partition coefficient:</b> (n-octanol / water): Data not available.
<b>Odor:</b> No odor.	<b>Flammability (solid/gas):</b> Data not available.	<b>Auto-ignition temperature:</b> Data not available.
<b>Odor threshold:</b> Data not available.	<b>Explosion limits: Upper/Lower:</b> Data not available.	<b>Decomposition temperature:</b> Data not available.
<b>pH:</b> N/A	<b>Vapor pressure (mm Hg):</b> 14 [water]	<b>Viscosity:</b> Data not available.
<b>Melting / Freezing point:</b> Approx. 0°C (32°F) [water]	<b>Vapor density (Air = 1):</b> 0.7 [water]	<b>Molecular formula:</b> Mixture
<b>Boiling point:</b> Approx. 100°C (212°F) [water]	<b>Relative density (Specific gravity):</b> 1.0 [water]	<b>Molecular weight:</b> Mixture
<b>Flash point:</b> Not flammable.	<b>Solubility(ies):</b> Soluble in water.	

**Section 10 Stability and reactivity**

**Chemical stability:** Stable

**Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Containers may burst when heated. Avoid contact with water.

**Incompatible materials:** Metals, bases, active metals, alkali metals, oxidizing agents, hydroxides, amines, carbonates, cyanides, sulfides, sulfites, formaldehyde.

**Hazardous decomposition products:** Hydrogen chloride gas.

**Section 11 Toxicological information**

**Acute toxicity:** Data not available

**Skin corrosion/irritation:** Data not available at this dilution.

**Serious eye damage/irritation:** Data not available at this dilution.

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP.

**IARC:** Group 3: Not classifiable as to its carcinogenicity to humans.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Ca Prop 65:** This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** Data not available at this dilution.

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Data not available

**Potential health effects:** To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available.

Exercise appropriate procedures to minimize potential hazards.

**Inhalation:** May be harmful if inhaled. Material may cause irritation to the tissue of the mucous membranes and upper respiratory tract.

**Ingestion:** May be harmful if swallowed.

**Skin:** May cause irritation and/or burns.

**Eyes:** May cause irritation and/or burns.

**Signs and symptoms of exposure:** Data not available at this dilution.

**Additional information:** RTECS #: MW4025000 [Hydrochloric acid]

**Section 12 Ecological information**

**Toxicity to fish:** LC50 - Gambusia affinis (Mosquito fish) - 282 mg/l - 96 h (Hydrochloric acid)

**Toxicity to daphnia and other aquatic invertebrates:** No data available

**Toxicity to algae:** No data available

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Section 13 Disposal considerations**

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

**Section 14 Transport information**

**UN/NA number:** Not applicable

**Shipping name:** Not Regulated

**Hazard class:** Not applicable

**Packing group:** Not applicable

**Exceptions:** Not applicable

**2024 ERG Guide #:** Not applicable

**Reportable Quantity:** No

**Marine pollutant:** No

**Section 15 Regulatory information**

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Hydrochloric acid	Listed	Not listed	D002	Listed	Not listed	

**Section 16 Other information**

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

Form 08/2015

Revision Date: August 22, 2024

Supersedes: October 18, 2022

**Section 1 Identification**

Page E1 of E2



**Aldon** 221 Rochester Street  
Avon, NY 14414  
(585) 226-6177

**CHEMTREC 24 Hour Emergency**  
**Phone Number (800) 424-9300**  
For laboratory and industrial use only.  
Not for drug, food or household use.

<b>Product</b>	<b>PHENOLPHTHALEIN SOLUTION</b>
<b>Synonyms</b>	1% Phenolphthalein in 95% Ethanol / Phenolphthalein Indicator

**Section 2 Hazards Identification****Signal word:** DANGER**Pictograms:** GHS02 / GHS08 / GHS06**Target organs:** Eyes, Central nervous system, Liver, Kidneys.**GHS Classification:**

Flammable liquid (Category 2)  
Acute toxicity, inhalation (Category 3)  
Skin irritation (Category 2)  
Eye irritation (Category 2B)  
Mutagenicity (Category 2)  
Carcinogenicity (Category 1B)  
Reproductive toxicity (Category 2)  
STOT-SE (Category 2)  
STOT-SE (Category 3)

**GHS Label information: Hazard statement:**

H225: Highly flammable liquid and vapour.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H331: Toxic if inhaled.  
H336: May cause drowsiness or dizziness.  
H341: Suspected of causing genetic defects.  
H350: May cause cancer.  
H361f: Suspected of damaging fertility.  
H371: May cause damage to organs.

**Hazards not otherwise classified:**

Health hazards not otherwise classified (HHNOC) - Not Known  
Physical hazards not otherwise classified (PHNOC) - Not Known

**Precautionary statement:**

P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P240: Ground/bond container and receiving equipment.  
P241: Use explosion-proof electrical/ventilating/lighting equipment.  
P242: Use only non-sparking tools.  
P243: Take precautionary measures against static discharge.  
P260: Do not breathe mist/vapours/spray.  
P264: Wash hands thoroughly after handling.  
P271: Use only outdoors or in a well-ventilated area.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312: Call a POISON CENTER or doctor if you feel unwell.  
P332+P313: If skin irritation occurs: Get medical attention.  
P337+P313: If eye irritation persists: Get medical attention.  
P362+P364: Take off contaminated clothing and wash it before reuse.  
P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
P405: Store locked up.  
P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

**Section 3 Composition / information on ingredients**

Chemical Name	CAS #	%	EINECS
Ethyl alcohol	64-17-5	80.75 - 81.51%	200-578-6
Isopropyl alcohol	67-63-0	8.55%	200-661-7
Water	7732-18-5	5.00%	231-791-2
Methanol	67-56-1	3.80 - 4.08%	200-659-6
Phenolphthalein	77-09-8	1.00%	201-004-7
Methyl isobutyl ketone	108-10-1	0.85 - 0.95%	203-550-1

**Section 4 First aid measures**

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

**Section 5 Fire fighting measures**

**Suitable Extinguishing Media:** Carbon dioxide, dry chemical, dry sand, alcohol foam.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly. Flame may not be visible in daylight.

**Section 6 Accidental release measures**

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

**Section 7 Handling and storage**

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

**Section 8 Exposure controls / personal protection**

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Ethanol	STEL: 1000 ppm / 1880 mg/m <sup>3</sup> (A3)	TWA: 1000 ppm / 1900 mg/m <sup>3</sup>	TWA: 1000 ppm / 1900 mg/m <sup>3</sup>

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

**Section 9 Physical and chemical properties**

<b>Appearance:</b> Clear, colorless liquid.	<b>Evaporation rate ( Butyl acetate = 1):</b> Ca 2*	<b>Partition coefficient:</b> (n-octanol / water): Low Pow: -.32*
<b>Odor:</b> Mild characteristic odor.	<b>Flammability (solid/gas):</b> Data not available.	<b>Auto-ignition temperature:</b> 400°C (752°F)*
<b>Odor threshold:</b> Data not available.	<b>Explosion limits: Lower / Upper:</b> 4.0%(V) / 20.0%(V)*	<b>Decomposition temperature:</b> Data not available.
<b>pH:</b> Data not available.	<b>Vapor pressure (mm Hg):</b> Ca 50 @ 20°C*	<b>Viscosity:</b> Data not available.
<b>Melting / Freezing point:</b> -114°C (-173°F)*	<b>Vapor density (Air = 1):</b> Ca 1.5*	<b>Molecular formula:</b> Mixture
<b>Boiling point:</b> 74-80°C (165.2-176°F)*	<b>Relative density (Specific gravity):</b> 0.7919-0.7955°C @ 60/60°F*	<b>Molecular weight:</b> Mixture
<b>Flash point:</b> 5°C (41°F)*	<b>Solubility(ies):</b> Soluble in water.	

\*[200 Proof Ethanol]

**Section 10 Stability and reactivity**

**Chemical stability:** Stable **Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Excessive temperatures, heat, sparks, open flame and other sources of ignition.

**Incompatible materials:** Strong oxidizers, inorganic acids and halogens.

**Hazardous decomposition products:** Oxides of carbon.

**Section 11 Toxicological information**

**Acute toxicity:** Oral-rat LD50: 7060 mg/kg ; Inhalation-rat LC50: 124.7 mg/l/4hours [Ethanol]

**Skin corrosion/irritation:** Skin-rabbit - Slight irritant.

**Serious eye damage/irritation:** Eyes-rabbit - Severe irritant.

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

**NTP: (R) Reasonably anticipated to be a human carcinogen.** [Phenolphthalein]

**IARC classified:** Group 2B: Possibly carcinogenic to humans. [Phenolphthalein]

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**CA Prop 65: ⚠ WARNING!** This product can expose you to chemicals including Phenolphthalein, Methanol, and Methyl isobutyl ketone, which are known to the State of California to cause cancer and birth defects or other reproductive harm.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Data not available

**Potential health effects:**

**Inhalation:** Inhalation may cause dizziness, drowsiness, nausea, vomiting, inability to concentrate and irritation of the throat.

**Ingestion:** Ingestion causes dizziness, drowsiness, decreased reaction, euphoria, nausea, vomiting, staggering gait and coma.

**Skin:** Contact with skin causes irritation defatting on prolonged contact.

**Eyes:** Contact with eyes may cause blindness.

**Signs and symptoms of exposure:** See Potential health effects above. Risk of cancer depends on level and duration of exposure.

**Additional information:** RTECS #: KQ6300000 [Ethanol]

**Section 12 Ecological information**

**Toxicity to fish:** Oncorhynchus mykiss (fish, fresh water), LC50 = 11,200 mg/l/24 hours [Ethanol]

**Toxicity to daphnia and other aquatic invertebrates:** Daphnia magna (Crustacia), EC50 = 10,800 mg/l/24 hours [Ethanol, 99.8% pure]

**Toxicity to algae:** Chlorella pyrenoidosa (Algae), EC50 = 9,310 mg/l/growth rate [Ethanol, absolute]

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Section 13 Disposal considerations**

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

**Section 14 Transport information**

**UN/NA number:** UN1170

**Shipping name:** Ethanol solution

**Hazard class:** 3

**Packing group:** II

**Reportable Quantity:** 5,000 lbs (2270 kg)

**Marine pollutant:** No

**Exceptions:** Limited quantity equal to or less than 1 L

**2020 ERG Guide #** 127

**Section 15 Regulatory information**

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERCLA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Ethanol	Listed	Not listed	D001	Listed	Not listed	⚠ WARNING -Cancer and Reproductive Harm - www.P65Warnings.ca.gov.
Methanol	Listed	5,000 lbs.	U154	Listed	Not listed	
Isopropanol	Listed	Not listed	Not listed	Listed	Not listed	
Phenolphthalein	Listed	Not listed	Not listed	Listed	Not listed	

**Section 16 Other information**

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

**Section 1 Identification**

Page E1 of E2



**Aldon** 221 Rochester Street  
Avon, NY 14414  
(585) 226-6177

**CHEMTREC 24 Hour Emergency**  
Phone Number (800) 424-9300  
For laboratory and industrial use only.  
Not for drug, food or household use.

**Product** SODIUM HYDROXIDE, 0.01 MOLAR SOLUTION

**Synonyms** Sodium Hydroxide, Water Solution (0.01M/0.01N)

**Section 2 Hazards Identification**

**Signal word:** WARNING

**Pictograms:** No symbol required

**Target organs:** Respiratory tract, gastrointestinal tract, eyes, skin.

**GHS Classification:**

Skin irritation (Category 3)

Eye irritation (Category 2B)

**GHS Label information: Hazard statement:**

H316: Causes mild skin irritation.

H320: Causes eye irritation.

**Precautionary statement:**

P264: Wash hands thoroughly after handling.

P332+P313: If skin irritation occurs: Get medical attention.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical attention.

**Hazards not otherwise classified:**

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

**Section 3 Composition / Information on ingredients**

Chemical Name	CAS #	%	EINECS
Water	7732-18-5	99.96%	231-791-2
Sodium hydroxide	1310-73-2	0.04%	215-185-5

**Section 4 First aid measures**

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** CAUSES IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** CAUSES IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

**Section 5 Fire fighting measures**

**Suitable Extinguishing Media:** Dry chemical, water spray, alcohol foam. Can react with carbon dioxide to form sodium carbonate.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume. Contact with metals can generate hydrogen gas.

**Section 6 Accidental release measures**

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.





Safety Data Sheet:  
**Material Name: Elmer's  
Disappearing Purple Glue  
Stick**  
**SDS ID: SDS-89**  
Issue Date: 2015-04-22  
Revision: .

### Other Sections

[01](#) [02](#) [03](#) [04](#) [05](#) [06](#) [07](#) [08](#) [09](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#)

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## Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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### Material Name

Elmer's Disappearing Purple Glue Stick

### Synonyms

E1558, E1559, E1560, E1573, E1591, E238, E239, E310, E4051, E4053, E4055, E4057, E5007, E5009, E502, E503, E5042, E5051, E506, E508, E513, E514, E520, E522, E5223, E523, E524, E543, E546, E555, E558, E261, E562, E576, E578, E60520, E64051, E64523, 60320, 60554, 60555, 61576, 61592, 61665, 61667, 61668, 61669, 61715, 62428, 60307, 61665, 61666, 61669, 62428

### Product Use

Adhesive

### Restrictions on Use

None known

### Manufacturer Information

Elmer's Products, Inc  
460 Polaris Parkway, Suite 500  
Westerville, OH 43082  
USA  
Phone:1-888-435-6377  
Fax:1-800-741-6046  
Email:comments@elmers.com

Emergency Phone Number:  
Poison Control Center  
1-888-516-2502

For additional product information, access our website at [www.elmers.com](http://www.elmers.com). To place an order, call 1-800-848-9400.

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## Section 2 - HAZARDS IDENTIFICATION

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### Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

None needed according to classification criteria

### GHS Label Elements

#### Symbol(s)

None needed according to classification criteria

#### Signal Word

None needed according to classification criteria

#### Hazard Statement(s)

None needed according to classification criteria

#### Precautionary Statement(s)

#### Prevention

None needed according to classification criteria

#### Response

None needed according to classification criteria

#### Storage

None needed according to classification criteria

#### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations

#### Statement of Unknown Toxicity

100% of the mixture consists of ingredient(s) of unknown acute toxicity.

#### Other Hazards

No data available

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## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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CAS	Component Name	Percent
Not available	Non-hazardous substance	100

---

## **Section 4 - FIRST AID MEASURES**

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### **Inhalation**

If adverse effects occur, remove to uncontaminated area. If discomfort persists, contact a physician.

### **Skin**

If on skin, wash immediately with plenty of soap and water. Get medical attention if irritation develops.

### **Eyes**

Remove contact lenses, if present and easy to do. IMMEDIATELY wash with large amounts of warm water, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.

### **Ingestion**

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious or convulsive person. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

### **Indication of any immediate medical attention and special treatment needed**

Treat symptomatically and supportively.

### **Most Important Symptoms/Effects**

#### **Acute**

No information on significant adverse effects.

#### **Delayed**

No information on significant adverse effects.

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## **Section 5 - FIRE FIGHTING MEASURES**

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### **Extinguishing Media**

#### **Suitable Extinguishing Media**

Use carbon dioxide, regular dry chemical, regular foam or water.

#### **Unsuitable Extinguishing Media**

None known.

### **Special Hazards Arising from the Chemical**

Slight fire hazard.

### **Hazardous Combustion Products**

oxides of carbon

### **Special Protective Equipment and Precautions for Firefighters**

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

### **Fire Fighting Measures**

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

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## **Section 6 - ACCIDENTAL RELEASE MEASURES**

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### **Personal Precautions, Protective Equipment and Emergency Procedures**

See Section 8 for Personal Protective Equipment recommendations.

### **Methods and Materials for Containment and Cleaning Up**

Stop leak if possible without personal risk. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

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## **Section 7 - HANDLING AND STORAGE**

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### **Precautions for Safe Handling**

Wash thoroughly after handling.

### **Conditions for Safe Storage, Including any Incompatibilities**

None needed according to classification criteria

Store in accordance with all current regulations and standards. Keep separated from incompatible substances.

### **Incompatible Materials**

oxidizing materials

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## **Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

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### **Component Exposure Limits**

ACGIH, NIOSH, EU, OSHA (US) and Mexico have not developed exposure limits for any of this product's components

### **Biological limit value**

There are no biological limit values for any of this product's components.

**Engineering Controls**

Based on available information, additional ventilation is not required. Ensure compliance with applicable exposure limits.

**Individual Protection Measures, such as Personal Protective Equipment****Eye/face protection**

Eye protection not required under normal conditions.

**Skin Protection**

Protective clothing is not required under normal conditions.

**Respiratory Protection**

No respirator is required under normal conditions of use.

**Glove Recommendations**

Protective gloves are not required under normal conditions.

**Section 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	purple solid	<b>Physical State</b>	solid
<b>Odor</b>	mild odor	<b>Color</b>	purple
<b>Odor Threshold</b>	Not available	<b>pH</b>	10.2 - 10.7
<b>Melting Point</b>	Not available	<b>Boiling Point</b>	100 °C
<b>Freezing point</b>	0 °C	<b>Evaporation Rate</b>	Not available
<b>Boiling Point Range</b>	Not available	<b>Flammability (solid, gas)</b>	Non-Flammable
<b>Autoignition</b>	Not available	<b>Flash Point</b>	None
<b>Lower Explosive Limit</b>	Not available	<b>Decomposition</b>	Not available
<b>Upper Explosive Limit</b>	Not available	<b>Vapor Pressure</b>	Not applicable
<b>Vapor Density (air=1)</b>	Not applicable	<b>Specific Gravity (water=1)</b>	1.01 - 1.02
<b>Water Solubility</b>	Miscible	<b>Partition coefficient: n-octanol/water</b>	Not available
<b>Viscosity</b>	Not available	<b>Solubility (Other)</b>	Not available
<b>Density</b>	8.4 - 8.5	<b>Physical Form</b>	solid

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## **Section 10 - STABILITY AND REACTIVITY**

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### **Reactivity**

Not known to occur.

### **Chemical Stability**

Stable at normal temperatures and pressure.

### **Possibility of Hazardous Reactions**

Will not polymerize.

### **Conditions to Avoid**

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

### **Incompatible Materials**

oxidizing materials

### **Hazardous decomposition products**

oxides of carbon

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## **Section 11 - TOXICOLOGICAL INFORMATION**

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### **Information on Likely Routes of Exposure**

#### **Inhalation**

No information on significant adverse effects.

#### **Skin Contact**

No information on significant adverse effects.

#### **Eye Contact**

No information on significant adverse effects.

#### **Ingestion**

No information on significant adverse effects.

### **Acute and Chronic Toxicity**

#### **Component Analysis - LD50/LC50**

The components of this material have been reviewed in various sources and no selected endpoints have been identified

**Immediate Effects**

No information on significant adverse effects.

**Delayed Effects**

No information on significant adverse effects.

**Irritation/Corrosivity Data**

No information on significant adverse effects.

**Respiratory Sensitization**

No data available.

**Dermal Sensitization**

No data available.

**Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

**Germ Cell Mutagenicity**

No data available.

**Reproductive Toxicity**

No data available.

**Specific Target Organ Toxicity - Single Exposure**

No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

No data available.

**Aspiration hazard**

No data available.

**Medical Conditions Aggravated by Exposure**

None known.

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**Section 12 - ECOLOGICAL INFORMATION**

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**Component Analysis - Aquatic Toxicity**

No LOLI ecotoxicity data are available for this product's components

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**Section 13 - DISPOSAL CONSIDERATIONS**

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**Disposal Methods**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Component Waste Numbers**

The U.S. EPA has not published waste numbers for this product's components

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**Section 14 - TRANSPORT INFORMATION**

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**US DOT Information:**

UN/NA #: Not regulated

**IATA Information:**

UN#: Not regulated

**TDG Information:**

UN#: Not regulated

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**Section 15 - REGULATORY INFORMATION**

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**U.S. Federal Regulations**

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

**SARA Section 311/312 (40 CFR 370 Subparts B and C)**

**Acute Health:** No **Chronic Health:** No **Fire:** No **Pressure:** No **Reactivity:** No

**U.S. State Regulations**

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA

**Not listed under California Proposition 65****Canadian WHMIS Ingredient Disclosure List (IDL)**

The components of this product are either not listed on the IDL or are present below the threshold limit listed on the IDL.

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**Section 16 - OTHER INFORMATION**

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**NFPA Ratings**

Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**Summary of Changes**

Updated SDS: 12/02/2014

## **Key / Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

## **Other Information**

### **Disclaimer:**

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.



# SAFETY DATA SHEET

## 1. Product and Company Identification

**Product Identifier** Iodized Salt

**Other means of identification  
Synonyms** Superior Iodized Table Salt  
Private Label Brand Iodized Table Salt  
Superior TX-10 Iodized Salt

**Recommended Use** Food applications

**Recommended Restrictions** None Known

**Manufacturer** US Salt LLC  
3580 Salt Point Road  
Watkins Glen, NY 14891  
Phone: 607-535-2721

**Emergency Telephone Number** CHEMTREC (800) 424-9300

## 2. Hazard(s) Identification

**Physical Hazards** Not Classified

**Health Hazards** Not Classified

**Environmental Hazards** Not Classified

**OSHA Defined Hazards** Not Classified

### Label Elements

**Hazard Symbol** None

**Signal Word** None

**Hazard Statement** The product does not meet the criteria for classification

**Precautionary Statement**

**Prevention** Observe good industrial hygiene practices

**Response** Wash hands after handling

**Storage** Store away from incompatible materials

**Disposal** Dispose of waste and residues in accordance with local authority requirements

**Hazard(s) not otherwise  
Classified (HNOC)** None Known

## 3. Composition / Information on Ingredients

### Salt and/or Salt Mixtures

Chemical Name	CAS #	%
Sodium Chloride	7647-14-5	99.0-99.7
Sodium Silicoaluminate	1344-00-9	< 0.70
Dextrose	50-99-7	0.02-0.03
Sodium Bicarbonate	144-55-8	0.00-0.01
Potassium Iodide	7681-11-0	0.006-0.010
Sodium Ferrocyanide	13601-19-9	0.00-0.0013

GRAS Substance (Generally Recognized as Safe)

## 4. First Aid Measures

**Inhalation** Avoid breathing dust. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

**Skin Contact** Wash skin with soap and water. Get medical attention if irritation develops and persists.

**Eye Contact** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Give one or two glasses of water if person is alert and able to swallow. Get medical attention if symptoms occur.

**Most important  
symptoms/effects, acute and  
delayed** Direct contact with eyes may cause temporary irritation.

**Indication of immediate  
medical attention and special  
Treatment needed** Treat symptomatically

## 5. Fire Fighting Measures

<b>Suitable extinguishing media</b>	Salt and salt mixtures are non-combustible
<b>Unsuitable extinguishing media</b>	Not Applicable
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Use appropriate firefighting PPE as a general precaution.
<b>Fire-fighting equipment/instructions</b>	Salt is not combustible and is thus not the material of concern for firefighting equipment or methods.
<b>Specific methods</b>	In the event of a fire, equipment and methods that are consistent with the combusting material should be used.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

## 6. Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Avoid generation and spreading of dust. Avoid inhalation of dust and contact with skin and eyes. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Stop the flow of material, if this is without risk. If sweeping of a contaminated area is necessary, use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Avoid release to the environment. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid discharge into storm drains or sanitary sewers, groundwater or soil.

## 7. Handling and Storage

<b>Precautions for safe handling</b>	Use work methods which minimize dust production. Provide appropriate exhaust ventilation at places where dust is formed. Avoid inhalation of dust and contact with skin and eyes. Wash thoroughly after handling. Keep away from strong acids. Practice good housekeeping.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in closed original container in a dry place. Store away from incompatible materials (see section 10 of the SDS). Becomes hygroscopic at 70-75% relative humidity. Avoid humid or wet conditions as product will cake and become hard.

## 8. Exposure Controls / Personal Protection

**Occupational exposure limits** No exposures limits noted for ingredient(s).

### **US. ACGIH Threshold Limit Values**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Potassium Iodide (CAS 7681-11-0)	TWA	0.01 ppm	Inhalable Form and vapor
Sodium Silicoaluminate (CAS 1344-00-9)	TWA	1 mg/m <sup>3</sup>	Respirable Fraction

### **US. NIOSH Pocket Guide to Chemical Hazards**

<b>Components</b>	<b>Type</b>	<b>Value</b>
Sodium Silicoaluminate	TWA	2 mg/m <sup>3</sup>

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls** TWA PEL: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, OSHA (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 5mg/cu.m. Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total Dust 8-Hour TWA PEL.

TWA TLV: No specific limits have been established for sodium chloride (a soluble substance). As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): 10mg/cu.m. Inhalable Particulate 8-Hours TWA TLV, 3mg/cu.m. Respirable Particulate TWA TLV.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

## Individual protection measures, such as personal protective equipment

<b>Eye/face protection</b>	Wear safety glasses with side shields. Wear a full-face respirator, if needed.
<b>Skin protection</b>	
<b>Hand protection</b>	If there is constant skin contact, rubber gloves are recommended.
<b>Other</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and Chemical Properties

<b>Appearance</b>	White crystalline solid
<b>Physical State</b>	Solid
<b>Form</b>	Crystalline Solid
<b>Color</b>	White
<b>Odor</b>	Halogen odor
<b>Odor Threshold</b>	Not applicable
<b>pH in aqueous solution</b>	4-9
<b>Melting point/freezing point</b>	1473.8 °F (801 °C)
<b>Initial boiling point and boiling range</b>	2669 °F (1465 °C) (760 mm Hg)
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit – lower (%)</b>	Not applicable
<b>Flammability limit – upper (%)</b>	Not applicable
<b>Explosive limit – lower (%)</b>	Not applicable
<b>Explosive limit – upper (%)</b>	Not applicable
<b>Vapor pressure</b>	2.4 mm Hg (1376.6 °F (747 °C))
<b>Vapor density</b>	Not applicable
<b>Relative density</b>	2.16 (H <sub>2</sub> O = 1)
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	26.4%
<b>Partition coefficient (n-octanol/water)</b>	Not applicable
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	Not applicable
<b>Viscosity</b>	Not applicable
<b>Other information</b>	
<b>Bulk density</b>	53 – 83 lb/ft <sup>3</sup>
<b>Molecular formula</b>	NaCl, 14SiO <sub>2</sub> ·Al <sub>2</sub> O <sub>3</sub> ·Na <sub>2</sub> ·3H <sub>2</sub> O, NaHCO <sub>3</sub> , KI, Na <sub>4</sub> Fe(CN) <sub>6</sub> ·10H <sub>2</sub> O
<b>Molecular weight</b>	58.44, 1059.3, 84.0, 166.02, 484.06

## 10. Stability and Reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Contact with incompatible materials, i.e. strong oxidizing agents.
<b>Incompatible materials</b>	Strong oxidizing agents, strong acids. Becomes corrosive to metals when wet.
<b>Hazardous decomposition products</b>	Chlorine gas, hydrogen chloride, oxides of sodium.

## 11. Toxicological Information

### Information on likely routes of exposure

<b>Ingestion</b>	Expected to be low ingestion hazard
<b>Inhalation</b>	High concentrations of dust may irritate throat and respiratory system and cause coughing.
<b>Skin contact</b>	Dust may irritate skin. May cause irritation through mechanical abrasion.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.

**Symptoms related to the physical, chemical and toxicological characteristics**  
Dust may cause eye, skin and respiratory tract irritation. Exposed individuals may experience eye tearing, redness and discomfort.

### Information on toxicological effects

**Acute toxicity**  
In some cases of confirmed hypertension, ingestion may result in elevated blood pressure. Ingestion of large amounts (greater than 0.1 pound) can cause gastrointestinal upset and irritation of the stomach. Rare cases of over exposure can lead to systemic toxicity related to the binding of ionized blood calcium.

<b>Product</b>	<b>Species</b>	<b>Test Results</b>
Sodium Chloride (CAS 7647-14-5)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Mouse	4000 mg/kg
	Rat	3000 mg/kg
<i>Other</i>		
LD50	Mouse	2602 mg/kg
Sodium Silicoaluminate (CAS 1344-00-9)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg, 24 hours
<i>Inhalation</i>		
	Rat	> 2.08 mg/l, 4 hours
Dextrose (CAS		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	25,800 mg/kg
Potassium Iodide		
<b>Acute</b>		
<i>Oral</i>		
LD50		500-5000 mg/kg
	Mouse	1000 mg/kg
	Rat	4340 mg/kg
<i>Other</i>		
LD50	Mouse	430 mg/kg
	Rat	> 285 mg/kg

Product	Species	Test Results
Sodium Bicarbonate (CAS 144-55-8)		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	> 4000 mg/kg
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation	
<b>Serious eye damage/eye irritation</b>	Dust in the eyes will cause irritation	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	Not available	
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization	
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic	
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA	
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Specific target organ toxicity - single exposure</b>	Not classified	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified	
<b>Aspiration Hazard</b>	Due to the physical form of the product, it is not considered an aspiration hazard.	

## 12. Ecological Information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
Sodium Chloride (CAS 7647-14-5)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 340.7 – 469.2 mg/l, 48 hours
Fish	LC50	Rainbow trout, Donaldson trout ( <i>Oncorhynchus mykiss</i> ) 4747 – 7824 mg/l, 96 hours
Sodium Aluminosilicate (CAS 1344-00-9)		
<b>Aquatic</b>		
Fish	LC50	Guppy ( <i>Poecilia reticulata</i> ) 1800 – 3200 mg/l, 96 hours
Potassium Iodide (CAS 7681-11-0)		
<b>Aquatic</b>		
Fish	LC50	Rainbow trout, Donaldson trout ( <i>Oncorhynchus mykiss</i> ) 896 mg/l, 96 hours
Sodium Bicarbonate (CAS 144-55-8)		
<b>Aquatic</b>		
Crustacea	EC50	Daphnia 2350 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> ) 8600 mg/l, 96 hours
<b>Persistence and degradability</b>	No data is available on the degradability of this product	
<b>Bioaccumulative potential</b>	No data available	
Partition coefficient n-octanol/water (log Kow)		
Dextrose (CAS 50-99-7)	-3.24	
<b>Mobility in soil</b>	No data available	
<b>Mobility in general</b>	No data available	
<b>Other Adverse effects</b>	None known	

### **13. Disposal Considerations**

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal Instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since Emptied containers may retain product residue, follow label warnings even after container is emptied.

### **14. Transport Information**

#### **U.S. Department of Transportation (DOT)**

Not regulated as dangerous goods.

#### **Transportation of Dangerous Goods (TDG – Canada)**

Not regulated as dangerous goods.

#### **IATA**

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not Applicable

### **15. Regulatory Information**

#### **US Federal Regulations**

All components are on the U.S. EPA TSCA Inventory List  
This product is not known to be a "hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated

#### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed

#### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated

#### **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPS) List**

Not regulated

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<b>Hazard Categories</b>	Immediate Hazard – No Delayed Hazard – No Fire Hazard – No Pressure Hazard – No Reactivity Hazard – No
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<b>SARA 302 Extremely Hazardous Substance</b>	No
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<b>SARA 311/312 Hazardous Chemical</b>	No
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<b>SARA 313 (TRI reporting)</b>	Not regulated
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#### **Other federal regulations**

<b>Safe Drinking Water Act (SDWA)</b>	Not regulated
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## US state regulations

### US Massachusetts RTK – Substance List

Not regulated

### US New Jersey Worker and Community Right-to Know Act

Not listed

### US Pennsylvania Worker and Community Right-to-Know Law

Sodium Silicoaluminate (CAS 1344-00-9)

### US Rhode Island RTK

Not regulated

### US California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### US – California Proposition 65 – Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

## International Inventories

<u>Country(s) or region</u>	<u>Inventory name</u>	<u>On inventory (Yes/No)*</u>
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ENCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or are exempt from listing on the inventory administered by the governing country(s)

## 16. Other Information, including date of preparation or last revision

<b>Issue Date</b>	01-March-2015
<b>Revision Date</b>	-
<b>Version #</b>	01

### Legend

Severe	4	<b>HMIS Ratings</b>	Health	1
Serious	3		Flammability	0
Moderate	2		Physical Hazard	0
Slight	1		Personal protection	A
Minimal	0	<b>NFPA Ratings</b>	Health	1
			Flammability	0
			Reactivity	0

### **Disclaimer**

The information contained herein was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond the manufacturer's control, it is the users responsibility both to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense arising from the product's improper use. No warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission in this SDS. Various government agencies may have specific regulations concerning the transportation, handling storage, use or disposal of this product which may not be reflected in this SDS. The user should review these regulations to ensure full compliance.