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6/9/2020

Re: Mixing liquid magnesium chloride with rock salt

Below is a brief summary of the method used to mix liquid magnesium chloride with rock salt:

“The Clearlane® Enhanced Deicer production process is initiated as untreated, sodium chloride rock salt is conveyed to a rotary blending screw. A liquid magnesium chloride blend, containing corrosion inhibitor, green dye, and performance enhancer is injected continuously, via a regulated pump and hose delivery system, into the screw. The liquid magnesium chloride blend and untreated rock salt combine to form a consistently blended, treated final product, Clearlane® Enhanced Deicer.”

Should you need any further info, please let me know.

Regards,

A handwritten signature in black ink that reads "Lyndsay Albarado". The signature is written in a cursive, flowing style.

**Lyndsay Albarado**  
**Food Safety, Quality, Regulatory Specialist – Deicing Technology**  
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\*EPA/Safer Choice recognition does not constitute endorsement of this product. The Safer Choice label signifies that the product's formula as Cargill Deicing Technology has represented it to the EPA, contains ingredients with more positive human health and environmental characteristics than conventional products of the same type. EPA/Safer Choice relies solely on Cargill Deicing Technology, its integrity and good faith, for information on the product's composition, ingredients and attributes. EPA/Safer Choice has not independently identified, that is, via chemical analysis, the ingredients in the product formula, nor evaluated any of Cargill Deicing Technology's non-ingredient claims. EPA/Safer Choice provides its evaluation only as to the product's human health and environmental characteristics, as specified in the Safer Choice Standard and based on currently available information and scientific understanding.

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**LESS IMPACT ON THE ENVIRONMENT.  
LESS IMPACT ON YOUR BUDGET.**



Protect lives and enhance commerce by providing sustainable road safety solutions.



# REMOVE THE ICE WHILE KEEPING YOUR BUDGET SAFELY INTACT.

It's common knowledge that pre-wetted deicers are proven to be the best and most practical defense against roadway ice and snow. What's not so widely known is that ClearLane® enhanced deicer is among the most economical options for combating ice and snow – even when compared to basic rock salt.

The ClearLane® product is a pre-wetted salt that's formulated to combat the three most pressing problems facing snow and ice fighters – icy roads, high product costs and equipment corrosion.

## THE CLEARLANE® TECHNOLOGY'S PATENTED\* FORMULATION ENTAILS:

- ASTM grade rock salt
- Liquid magnesium chloride
- PNS approved corrosion inhibitor
- Coloring agent
- Leaching inhibitor

## NEW FORMULATION. SAME PERFORMANCE. SAFER FOR THE ENVIRONMENT.



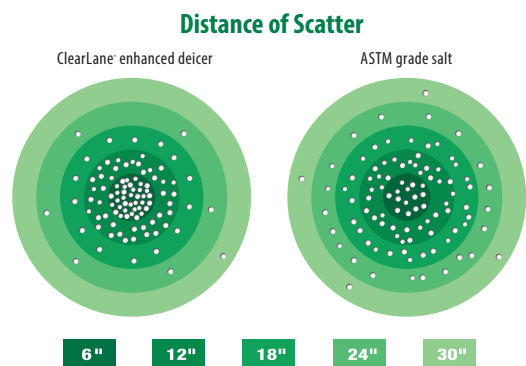
The newly formulated ClearLane® enhanced deicer carries the distinguished Safer Choice label, granted by the U.S. Environmental Protection Agency (EPA). This distinction is only allotted to products deemed safer when compared to other chemicals in their class.

As a ClearLane® enhanced deicer consumer you have come to depend on the significant advantages this product offers when compared to regular rock salt. The first and foremost of these is safer roads – but the benefits go well beyond safety. The ClearLane® product can also improve your bottom line by reducing product usage, labor and equipment costs, and reducing environmental impact – now more than ever before.

This new formulation offers you access to the same effective product while utilizing safer chemical ingredients that are more environmentally friendly.

## IT IS ROCK SALT MADE BETTER.

Tests prove and real world performance shows that ClearLane® enhanced deicer scatters less than plain rock salt. And when more of your deicing product stays in place, you're able to make roadways safer, stretch budgets farther, and impact ecosystems less. You can accomplish all of this without buying a single piece of new equipment or adding labor. The only thing that's required is to switch from traditional rock salt to ClearLane® enhanced deicer. It works better so you don't have to work harder.



In Cargill lab tests, 80% of ClearLane® enhanced deicer stays within 18" of where it is spread versus 51% of regular rock salt.

\* U.S. Pat. No. 7,309,451; 7,507,349; other patents pending.



## INCREASED SAFETY IS REASON ENOUGH. BUT IT'S NOT ALL.

ClearLane® enhanced deicer offers users significant advantages when compared to regular rock salt which include:

**REDUCED COST PER LANE MILE** – Proven to achieve 30% less road scatter versus regular deicing salt, requires no need for mixing equipment and helps reduce labor costs and fuel consumption.

**BETTER PRODUCT COMPOSITION** – Fewer lumps and crusts, and no clogging at the spreader.

**LOWER ENVIRONMENTAL IMPACT** – Customers find they can reduce product usage 20-40% when compared to bulk deicing salt.

**LESS EQUIPMENT CORROSION** – PNS-approved inhibitor proven to be three times less corrosive than regular rock salt.

**INCREASED OPERATIONAL EFFECTIVENESS** – Effective melting at temperatures when rock salt becomes ineffective, uniform mixture for uniform performance, non-leaching formulation, greater residual effects and green coloring for easier identification on roadways.

## MANUFACTURER'S RECOMMENDATIONS

- ClearLane® enhanced deicer is a non-leaching product. The liquid treatment used is water soluble and therefore should be kept under covered storage.
- Blending salt or sand to the product will reduce its effectiveness against scatter.
- Providing superior snow-fighting and effective winter maintenance services requires great expertise and the ability to identify effective application methods. Customers who use this product find they can use between 20-40% less product when compared to rock salt. For best results, use straight ClearLane® enhanced deicer at application rates that show the most effective performance.
- This product is intended for bulk deicing use only. It should not be packaged for any purpose, including for re-sale.

## PUT A FREEZE ON CORROSION.

Ice isn't the only thing a deicer attacks. Rock salt can cause corrosion to your equipment. ClearLane® enhanced deicer helps mitigate this effect using a corrosion inhibitor in its formulation. In fact, tests demonstrate that ClearLane® is approximately 84% less corrosive than ASTM grade salt that is pre-wetted with brine.

### Methods of Analysis

Methods of analysis and product performance evaluation based on ASTM E 534, ASTM D 632 and Cargill internal methods.

### Producing Location

This product is available at various Cargill locations across the USA. Product of the USA.

### Chemical Analysis

COMPONENT	TYPICAL
Sodium Chloride CAS No. 7647-14-5 %	95.4 – 96.4
Water %	2.2-3.6
Magnesium Chloride CAS No. 7786-30-3 %	0.9 – 1.3
Sodium Gluconate CAS No. 527-07-1 %	0.08 – 0.18
Xanthan Gum CAS No. 11138-66-2 %	0.08 – 0.18
Colorant (ppm)	15-50

### Product Configuration

PRODUCT NAME	SAP DESCRIPTION	SAP NUMBER
Clearlane®		
Bulk	CLEARLANE	100012763



Protect lives and enhance commerce by providing sustainable road safety solutions.



## Technical Information *ClearLane® enhanced deicer*

### DESCRIPTION:

**ClearLane® enhanced deicer** is an enhanced deicing salt product containing a pre-wetting agent, coloring agent, and a corrosion inhibitor. It is a highly effective performer that protects exposed steel surfaces from damp salt corrosion and remains free-flowing at low temperatures. It adheres to the road surface more effectively than dry salt, minimizing loss of deicer from wind and traffic scatter, providing more efficient deicing.

### COMPLIANCE:

**ClearLane® enhanced deicer** is not approved for human or animal consumption. It is intended for use only as a chemical deicer on roadways and thoroughfares.

### ADDITIVES:

**ClearLane® enhanced deicer** contains a patent pending pre-wetting agent.

### APPLICATION:

**ClearLane® enhanced deicer** can be applied at the same rate as regular highway deicing salt. Depending on the conditions present at the time of application, **ClearLane® enhanced deicer** may be applied at lower application rates than regular deicing salt.

### HANDLING AND STORAGE:

**ClearLane® enhanced deicer** requires no additional handling, equipment or labor over and above that used for regular highway deicing salt. To improve caking resistance and reduce run-off, it is recommended that the product be stored in a covered storage shed or tarped. Normal precautionary measures for the safe handling of deicers should be observed.

### PACKAGING:

**ClearLane® enhanced deicer** is available only in bulk form.

#### **CARGILL DEICING TECHNOLOGY**

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### METHODS OF ANALYSIS:

Methods of analysis are taken from the ASTM designations D 632-99, E 534-98, and from Cargill Salt. pH is reported on a dilution of 1 part pre-wetting agent to 4 parts water.

### CHEMICAL ANALYSIS OF TREATED SALT

Component	Units	Typical
Sodium Chloride Deicing Salt	%	95.9
Pre-wetting Agent	%	4.1

### CHEMICAL ANALYSIS OF PRE-WETTING AGENT

Component	CAS	Units	Typical
Water	7732-18-5	%	67 - 70
Magnesium chloride	7786-30-3	%	26 - 29
Sodium gluconate	527-07-1	%	0.25 - 0.35
Xanthan Gum	11138-66-2	%	0.2 - 0.4
Colorant Blend		%	0.01 - 0.06
FDC Blue 1	3844-45-9		
Tartrazine	1934-21-0		
FD&C Red 40	25956-17-6		
Trans-2851	proprietary	ppm	0.4 - 0.8
pH			7.0 - 8.6

### SIEVE ANALYSIS:

U.S.S. Mesh	Opening Inches	Opening Microns	Specification
1/2"	0.500	12700	100
3/8"	0.375	9525	95 - 100
4	0.187	4760	20 - 90
8	0.0937	2380	10 - 60
30	0.0232	590	0 - 15

Note: Sieve analysis is reported as percent passing. The dry salt utilized in this product complies fully with ASTM specification D632-99, Type 1, Grade 1. Sieve analysis of the final product differs from the ASTM dry salt specification due to the effect of the liquid prewetting agent on the sieve.

#### **PRODUCING LOCATIONS: VARIOUS LOCATIONS ACROSS THE U.S.**

**Material Number 100012763**

**No. 7714- Sept 2015 Rev 11**

NOTICE: All of the above statements, recommendations, suggestions and data are based on our laboratory results, and we believe same to be reliable. Nevertheless, with the exception of data showing an express guaranty (such as in the case of products specifically designed for use as nutrient supplements), all such statements, recommendations, suggestions and data hereinabove presented are made without guaranty, warranty or responsibility of any kind on our part.



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** ClearLane® enhanced deicer

**Other means of identification**

**SDS number** NC19

**Synonyms** Sodium Chloride mixed with Magnesium Chloride

**Recommended use** Salt may be intended for several industrial applications includeing deicing.

**Recommended restrictions** None known.

### Manufacturer/Importer/Supplier/Distributor information

#### Manufacturer

**Company name** Cargill Incorporated

**Address** Minneapolis, MN 55440

**Telephone** 1-888-385-7258

**Website** www.cargillsalt.com

**Emergency telephone number** CHEMTREC (800) 424-9300

## 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health hazards** Not classified.

**OSHA defined hazards** Not classified.

#### Label elements

**Hazard symbol** None.

**Signal word** None.

**Hazard statement** The mixture 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.

**Supplemental information** None.

## 3. Composition/information on ingredients

#### Mixtures

Chemical name	CAS number	%
Sodium Chloride	7647-14-5	91.0-96.0
Water	7732-18-5	2.3-3.6
Magnesium chloride	7786-30-3	1.0-1.3
Sodium Gluconate	527-07-1	<0.02
Xanthan gum	11138-66-2	<0.02
FD&C Blue No. 1	3844-45-9	0.05 – 0.20
FD&C Red 40	25956-17-6	0.05 – 0.20
Tartrazine	1934-21-0	0.05 – 0.20

## 4. First-aid measures

<b>Inhalation</b>	If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Give one or two glasses of water if patient is alert and able to swallow. Get medical attention if symptoms occur.
<b>Most important symptoms/effects, acute and delayed</b>	Direct contact with eyes may cause temporary irritation.
<b>Indication of immediate medical attention and special treatment needed</b>	Treat symptomatically.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Use extinguishing agent suitable for type of surrounding fire.
<b>Unsuitable extinguishing media</b>	None known.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed such as: Carbon oxides (COx). Hydrogen chloride gas. Metal oxides.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	Use water spray to cool unopened containers.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	This product is not flammable or combustible.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Avoid inhalation of dust from the spilled material. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at 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>	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 drains, water courses or onto the ground.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Provide appropriate exhaust ventilation at places where dust is formed. Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes. Avoid contact with water and moisture. Keep away from strong acids. May evolve chlorine gas when in contact with strong acids. Hydrogen chloride release above 1400°F. Do not reuse containers. Practice good housekeeping.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in original tightly closed container. Store in a well-ventilated 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. Keep out of reach of children.

## 8. Exposure controls/personal protection

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Unvented, tight fitting goggles should be worn in dusty areas.



<b>Skin protection</b>	
<b>Hand protection</b>	Wear appropriate chemical resistant gloves.
<b>Skin protection</b>	
<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. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.
<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>	Green damp crystalline solid.
<b>Physical state</b>	Solid.
<b>Form</b>	Damp crystalline solid.
<b>Color</b>	Green.
<b>Odor</b>	None.
<b>Odor threshold</b>	Not available.
<b>pH</b>	7 - 8.6
<b>Melting point/freezing point</b>	1473.8 °F (801 °C)
<b>Initial boiling point and boiling range</b>	2669 °F (1465 °C) (760 mmHg)
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	2.4 mm Hg (1376.6 °F (747 °C))
<b>Vapor density</b>	Not available.
<b>Relative density</b>	2.16 (H2O = 1)
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	26.4 %
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Bulk density</b>	72 - 80 lb/ft³
<b>Molecular formula</b>	NaCl, MgCl2
<b>Molecular weight</b>	NaCl = 58.44, MgCl2 = 95.22
<b>pH in aqueous solution</b>	5 - 9

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, 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. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
<b>Incompatible materials</b>	Avoid contact with strong acids, caustics, ammonia and cyanides. Sodium chloride is incompatible with lithium and bromine trifluoride. Magnesium chloride is incompatible with Furan-2-peroxycarboxylic acid.
<b>Hazardous decomposition products</b>	May evolve chlorine gas when in contact with strong acids. Possibly chlorine, nitrogen and sodium containing compounds.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Inhalation of dusts may cause respiratory irritation.
<b>Skin contact</b>	Prolonged or repeated skin contact may cause irritation. If applied to damaged skin, absorption can occur with effects similar to those via ingestion.
<b>Eye contact</b>	Dust in the eyes will cause irritation.
<b>Ingestion</b>	Expected to be a low ingestion hazard.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye and skin contact: Exposure may cause temporary irritation, redness, or discomfort. For ingestion, consuming less than a few grams would not be harmful. The following effects were observed after ingesting an excessive quantity: nausea and vomiting, diarrhea, cramps, restlessness, irritability, dehydration, water retention, nose bleed, gastrointestinal tract damage, fever, sweating, sunken eyes, high blood pressure, muscle weakness, dry mouth and nose, shock, cerebral edema (fluid on brain), pulmonary edema (fluid in lungs), blood cell shrinkage, and brain damage (due to dehydration of brain cells). Death is generally due to cardiovascular collapse or CNS damage.

### Information on toxicological effects

<b>Acute toxicity</b>	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.
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Components	Species	Test Results
Magnesium chloride (CAS 7786-30-3)		
<u>Acute</u>		
Oral		
LD50	Rat	2800 mg/kg
Sodium Chloride (CAS 7647-14-5)		
<u>Acute</u>		
Oral		
LD50	Rat	3000 mg/kg
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Dust in the eyes will cause irritation.	
Respiratory or skin sensitization		
Respiratory sensitization	Not available.	
Skin sensitization	This product is not expected to cause skin sensitization.	
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.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
FD&C Blue No. 1 (CAS 3844-45-9)	3 Not classifiable as to carcinogenicity to humans.	
NTP Report on Carcinogens		
Not listed.		
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)		
Not regulated.		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.	

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Due to the physical form of the product it is not 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.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

**Mobility in soil** No data available.

**Other adverse effects** None known.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** 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).

**Contaminated packaging** 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

### DOT

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

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

Not regulated.

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

Not listed.

### SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

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

#### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** Yes

**Classified hazard categories** Acute toxicity (any route of exposure)

#### SARA 313 (TRI reporting)

Not regulated.

## Other federal regulations

### 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

### US. Massachusetts RTK - Substance List

FD&C Blue No. 1 (CAS 3844-45-9)

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

Not listed.

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

Not listed.

### US. Rhode Island RTK

Not regulated.

### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Magnesium chloride (CAS 7786-30-3)

## International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No
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 exempt from listing on the inventory administered by the governing country(s).

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

Issue date	30-December-2014
Revision date	16-April-2018
Version #	04
HMIS® ratings	Health: 1 Flammability: 0 Physical hazard: 0 Personal protection: A



## Disclaimer

All statements, technical information and recommendations contained herein are, the best of our knowledge, reliable and accurate; however no warranty, either expressed or implied is made with respect thereto, nor will any liability be assumed for damages resultant from the use of the material described.

It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations. It is also the responsibility of the user to maintain a safe workplace. The user should consider the health hazards and safety information provided herein as a guide and should take the necessary steps to instruct employees and to develop work practice procedures to ensure a safe work environment.

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