

GRAND VALLEY DISTRIBUTER'S  
SAFETY DATA SHEET  
GET A GRIP

Date Prepared: 8/17/16

**I. Product Identity**

PRODUCT NAME: Zero & Beyond

MFR INFO: Grand Valley Distributors  
a division of Groenink's Elevator and Hardware  
11260 Michigan Ave.  
Nunica, MI 49448  
Phone: 1-800-682-3142  
FOR EMERGENCY: (800) 424-9300 (CHEMTREC)  
FOR INFORMATION: (616) 837-7391

CURRENT AS OF: 8/17/16

**II. Ingredient List**

Potash  
Sodium Chloride  
Magnesium Chloride  
Calcium Chloride

**III. Ingredient: Potash**

**Section 1: Identification**

Trade Name : Muriate of Potash (MOP), all grades  
Chemical Name : Potassium Chloride  
CAS Number : 7447-40-7  
Chemical Family : Inorganic salt  
Synonyms : Potash, MOP, Potassium Chloride, Potassium Muriate, Potassium Monochloride, Muriate of Potash  
Primary Use : Crop nutrient and industrial applications  
Manufacturer : Grand Valley Distributors, a division of Groenink's Elevator and Hardware, Inc.  
11260 Michigan Ave  
Nunica, MI 49448  
Phone: 1-800-682-3142  
Emergency US CHEMTREC: 1-800-424-9300  
CHEMTREC : 1-800-424-9300

**Section 2: Hazard Identification**

GHS-US Classification  
Eye Irritation 2B H320  
Full text of H-phrases: see section 16  
GHS-US Labeling  
Signal Word : Warning  
Hazard Statement : H320 – Causes eye irritation  
Precautionary Statements : P264 – Wash hands thoroughly after handling  
P305 + P351 + P338 – If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Other Hazards**

No pictogram according to the established criteria.  
No additional information available.

**Section 3: Composition and Information on Ingredients**

Substances : Not applicable  
Mixtures

Name	Product Identifier	%	GHS-US Classification
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Potassium Chloride	(CAS No.) 7447-40-7	95-99.8	Eye Irrit. 2B, H320
Sodium Chloride	(CAS No.) 7647-14-5	1-4	Skin Irrit. 2, H315 Eye Irrit. 2A, H316 STOT SE 3, H335

\*May contain up to 0.25% base lubrication (de-dust) oil and/or 0.03% neutralized primary aliphatic (anti-cake) amine.

#### Section 4: First Aid Measures

First-aid Measures General	:	If medical advice is needed, have product container or label in hand.
First-aid Measures After Inhalation	:	If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. Obtain medical attention if breathing difficulty persists.
First-aid Measures After Skin Contact	:	Wash skin thoroughly with mild soap and water. Obtain medical attention if irritation develops or persists.
First-aid Measures After Eye Contact	:	Immediately rinse with water for a prolonged period (15 minutes) while holding the eyelids wide open including upper and lower lids. Obtain medical attention if pain and irritation develops or persists.
First-aid Measures After Ingestion	:	Do not induce vomiting. Administer water if patient is conscious. Ingesting potash will usually cause purging of the stomach by vomiting. Seek medical attention if a large amount is swallowed. Get medical advice and attention you feel unwell.
Symptoms/ Injuries	:	Irritation to eyes, skin, and respiratory tract.
Injuries after Inhalation	:	Overexposure may be irritating to the respiratory system.
Injuries after Skin Contact	:	May cause skin irritation.
Injuries after Ingestion	:	If a large quantity has been ingested: abdominal pain, diarrhea, nausea, vomiting, tingling in hands and feet, weak pulse, and circulatory disturbances.
Chronic Symptoms	:	Prolonged inhalation of dust may cause respiratory irritation.

#### Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:	Not flammable. Use extinguishing media appropriate for surrounding fire.
Unsuitable Extinguishing Media	: None known.
Fire Hazard	: Under conditions of fire this material may produce: potassium oxides, hydrogen chloride, and chlorine gas.
Explosion Hazard	: Product is not explosive.
Reactivity	: Stable at ambient temperature and under normal conditions of use.
Fire-fighting Instructions	: Keep upwind. Under conditions of fire this material may produce: potassium oxides, hydrogen chloride, and chlorine gas.
Protection During Fire-Fighting	: Wear full fire-fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).
Other Information	: Do not allow run-off from fire fighting to enter drains or water courses.

#### Section 6: Accidental Release Measures

General Measures	: Do not breathe fumes from fires or vapors from decomposition.
Protective Equipment	: Wear suitable protective clothing, gloves, and eye/face protection including tight fitting goggles in areas of high dust concentration. Wear NIOSH approved respiratory protective equipment when workplace conditions warrant use of respirator.
Emergency Procedures	: Collect as any solid. Ventilate area. If possible, stop flow of product. Contain and collect as any solid. Ventilate area.
Environmental Precautions	: If spill could potentially enter any waterway, including intermittent dry creeks, contact the US. Coast Guard National Response Center at 800-424-8802. In case of accident or road spill notify CHEMTREC at 1-800-424-9300.
Containment	: Contain and collect as any solid. Do not allow into drains or water courses or dispose of where ground or surface waters may be effected.
Methods for Cleaning Up	: Recover the product by vacuuming, shoveling, or sweeping. Avoid generation of dust during clean-ups of spills. If uncontaminated, recover and reuse as product. If on soil, remove and collect the top 5 cm of soil.

#### Section 7: Handling and Storage

Additional Hazards when Processed	: When heated, material emits irritating fumes.
Precautions for Safe Handling	: Handle in accordance with good industrial hygiene and safety procedures. Avoid contact with skin and eyes. Do not eat, drink, or smoke when using this product. Always wash hands after handling the product.
Hygiene Measures	: Emergency eye wash fountains should be available in the immediate vicinity of any potential

exposure.  
 Storage Conditions : Store tightly closed in a dry, cool, and well ventilated place. Protect from moisture.  
 Special Rules on Packaging : Avoid contact with aluminum or carbon steel to minimize corrosion.  
 Specific End Use : Fertilizer

**Section 8: Exposure Controls and Personal Protection**

Control Parameters : Highly soluble – No ACGIH TWA, Particulate Not Otherwise Specified (PNOS) not appropriate for highly soluble material.

Appropriate  
 Engineering Controls : Ensure adequate ventilation, especially in confined areas.  
 Personal  
 Protection Equipment : Gloves, safety glasses, and protective clothing.  
 Hand Protection : Impermeable protective gloves.  
 Eye Protection : Protective goggles.  
 Skin and Body Protection : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Wear suitable protective clothing. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice. Wash clothing frequently.  
 Respiratory Protection : Use NIOSH-approved air purifying or supplied-air respirator where airborne concentrations of dust are expected to exceed exposure limits.

Environmental  
 Exposure Controls : Ensure adequate ventilation, especially in confined areas.

**Section 9: Physical and Chemical Properties**

Physical State : Solid  
 Appearance : Granular solid. Fine to 4mm size.  
 Color : White to red  
 Odor : Slightly oily  
 Odor Threshold : No data available  
 pH : 7 (approximately)  
 Relative Evaporation Rate : No data available  
 Melting Point : 771-773 C (1420-1423 F)  
 Freezing Point : No data available  
 Boiling Point : 1420-1500 C (2588-2732 F)  
 Flash Point : No data available  
 Self Ignition Temperature : Not flammable  
 Decomposition Temperature : No data available  
 Flammability (solid, gas) : Not flammable  
 Vapor Pressure : 80 Pa at 20 C  
 Relative Vapor  
 Density at 20 C : No data available  
 Relative Density : No data available  
 Density : 1.98 g/cc  
 Solubility : Water: 347 g/l (at 20 C)  
 Log Pow : No data available  
 Log Kow : No data available  
 Viscosity, Kinematic : No data available  
 Viscosity, Dynamic : No data available  
 Explosive Properties : None known  
 Oxidizing properties : None known  
 Explosive Limits : Not explosive  
 VOC Content : < 0.5%

**Section 10: Stability and Reactivity**

Reactivity : Stable at temperature and under normal conditions of use.  
 Chemical Stability : Stable at standard temperature and pressure.  
 Possibility of  
 Hazardous Reactions : Hazardous polymerization will not occur.  
 Conditions to Avoid : Protect from moisture.  
 Incompatible Materials : Contact with acids liberates toxic gas (chlorine). Contact with hot nitric acid may produce toxic nitrosyl chloride.

Hazardous  
 Decomposition Products : Contact with strong acids may produce hydrogen chlorine gas.

**Section 11: Toxicological Information**

Acute Toxicity : Not classified

<b>Potash</b>	
Additional Information	Potassium chloride is listed by the FDA as “Generally Recognized

	as Safe <sup>™</sup> (GRAS) and may be used as a food additive according to prescribed conditions.
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<b>Potassium Chloride (7447-40-7)</b>	
LD50 oral rat	2600 mg/kg

<b>Sodium Chloride (7647-14-5)</b>	
LD50 oral rat	3 g/kg
LD50 dermal rabbit	> 10 g/kg
LD50	> 42 g/m <sup>3</sup> (exposure time: 1 hr)

Serious Eye  
 Damage/ Irritation : Causes eye irritation  
 pH: 7 (approximately)

Respiratory  
 Skin Sensitization : Not classified  
 Germ Cell Mutagenicity : Not classified  
 Carcinogenicity : Not classified  
 Specific Target Organ Toxicity (single exposure) – not classified  
 Specific Target Organ Toxicity (repeated exposure) – not classified  
 Aspiration Hazard : Not classified

**Section 12: Ecological Information**

Ecotoxicity:	
Acute toxicity to fish:	(Lepomis Macrochirus) (blue gill) – 96 hour – LC <sub>50</sub> = 2010 mg/L (ppm KCl)
Chronic toxicity to fish:	No data available
Acute toxicity to aquatic invertebrates:	(Daphnia Mgna) – 48 hours – EC <sub>50</sub> – 337 – 825 mg/L; (Physa Heterostropha) – 96 hrs – LC <sub>50</sub> = 940 mg/L.
Chronic Toxicity to Aquatic Invertebrates:	No data available
Toxicity to aquatic plants:	((Nitzshia linearis)diatom) – 5 days – 120 hour TIm = 1,337 ppm KCl; (Scendesmus subspicatus) 72 hour - EC <sub>50</sub>
Toxicity to bacteria: (activated)	No data available
Toxicity to soil dwelling organisms:	No data available
Toxicity to terrestrial plants:	No data available

Environmental Fate:	
Stability in Water:	Ions can persist, dissociates in water
Stability in Soil:	Binds to clay particles
Transport and Distribution:	1.51 x 10 <sup>-8</sup> % to air; 45.2% to water; 54.7% to soil; 0.0755% to sediment

Toxicity:	
Not toxic to aquatic organisms defined by USEPA	

Degradation Products:
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Bio-degradation:	No data available
Photo-degradation:	No data available

### Section 13: Disposal Considerations

#### Sewage Disposal

Considerations	:	This material may be hazardous to the aquatic environment. Keep out of sewers and waterways.
Waste Disposal	:	
Recommendations	:	Place in an appropriate container and dispose of the contaminated material at a licensed site.
Additional Information	:	Dispose of waste material in accordance with all local, regional, national, and international regulations.

### Section 14: Transport Information

In accordance with DOT, TDG, ADR, RID, ADNR, IMDG, ICAO, and IATA.

UN Number	:	No dangerous good in sense of transport regulations.
UN Proper Shipping Name	:	Not applicable
Additional Information	:	No supplementary information available.
Overland Transport	:	No additional information available.
Transport by Sea	:	No additional information available.
Air Transport	:	No additional information available.

### Section 15: Regulatory Information

#### US Federal Information

<b>Potash</b>	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

#### Potassium Chloride (7447-40-7)

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

#### Sodium Chloride (7647\*14OS-5)

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

#### US State Regulations

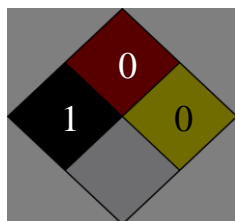
The following states have an OSH program approved by OSHA. If you are located in any of these states you may be under state jurisdiction rather than federal jurisdiction and your state may have more requirements than OSHA. You should consult your state regulations to ensure compliance.

Alaska	*Illinois	Michigan	*New York	Tennessee	Washington
Arizona	Indiana	Minnesota	North Carolina	Utah	Wyoming
California	Iowa	Nevada	Oregon	Vermont	
*Connecticut	Kentucky	New Mexico	Puerto Rico	*Virgin Islands	
Hawaii	Maryland	*New Jersey	South Carolina	Virginia	

\*The state plans in these states apply only to public sector employers. In these states private sector employers are subject to USOL – OSHA jurisdiction. All other state plans apply to both public and private sector employers.

Sodium Chloride (7647-14-5)
US. - Texas – Effects Screening Levels – Long Term
US. - Texas – Effects Screening Levels – Short Term

### Section 16: Other Information



NFPA Health Hazard	:	1 – Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA Fire Hazard	:	0 – Materials that will not burn.
NFPA Reactivity	:	0 – Normally stable, even under fire exposure conditions, and are not reactive with water.
Full Text of H-Phrases		

Eye Irrit. 2	Serious eye damage/ eye irritation Category 2
Skin Irrit. 2	Skin corrosion/ irritation Category 2

STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

Disclaimer	:	The directions of use for this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of Groenink's Elevator and Hardware, Inc. or the Seller. All such risks shall be assumed by the Buyer. Groenink's Elevator and Hardware, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in its Direction for Use subject to the inherent risks referred to above. <b>Groenink's Elevator and Hardware, Inc USA makes no other express or implied Warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Groenink's Elevator and Hardware, Inc. or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product.</b> Groenink's Elevator and Hardware, Inc. and the Seller offer this product, and the Buyer and user except it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of Groenink's Elevator and Hardware, Inc.
Issue Date	:	August 17, 2016
Effective Date	:	August 17, 2016
Expiry Date	:	Reoccurring
Further Information	:	For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.
Prepared By	:	Grand Valley Distributors, a division of Groenink's Elevator and Hardware Phone: 1-800-682-3142
Other Information	:	This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS). This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.

#### IV. Ingredient: Sodium Chloride

##### Section 1: Identification

Product Identifier	:	Salt
Other Means of Identification	:	Sodium Chloride, Sifto Safe Step Standard Salt, Sifto Ice Salt, Sifto Sodium Chloride, Sifto Safe, Step EnviroGuard, QwikSalt, Ice-A-Way, IceAway Turbo, IceAway Turbo Blue, Safe Step 3300, Aspen, Aspen Blue, Safe Step 4300 Dual Blend, Safe Step 4300 Dual Blend Blue, EconoBlend 370, Winter Storm, Winter Storm Blue, Safe Step Pro Series 550, Safe Step Pro, Series 570, Safe Step 6300 Enviro Blend, Safe Step Pro Series 960 Choice Formula, Safe Step Sure Paws, Sifto Safe Step Sure Paws, American Stockman Animal Nutrition Products, Nature's Own water care products, Sure Soft water care products, Natural Salt water care, Pro Soft water care products
Recommended Use	:	De-icer. General industrial and water softening/conditioning purposes. Animal Nutrition.
Recommended Restrictions	:	None known.
Manufacturer	:	Grand Valley Distributors, a division of Groenink's Elevator and Hardware, Inc. 11260 Michigan Ave Nunica, MI 49448 Phone: 1-800-682-3142 Emergency US CHEMTREC: 1-800-424-9300
CHEMTREC	:	1-800-424-9300

##### Section 2: Hazard 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 and/or 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, i.e, strong oxidizing agents (see Section 10)

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 and Information on Ingredients**

Salt and/or Salt Mixtures  
Composition Comments : The criteria for listing components in this section are: Carcinogens, Respiratory Sensitizers, Mutagens, Teratogens and Reproductive toxins are listed when present at 0.1% or greater; components which are otherwise hazardous according to WHMIS/OSHA are listed when present at 1.0% or greater. Non hazardous components are not listed. The products pertaining to this SDS have various proportions of components which do not meet the listing criteria.

**Section 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 : Rinse skin with water/shower. Get medical attention if irritation develops and persists.  
Eye Contact : Rinse with water. Get medical attention if irritation develops and persists.  
Ingestion : Rinse mouth. If ingestion of a large amount does occur, seek medical attention.  
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.

**Section 5: Fire-Fighting Measures**

Suitable Extinguishing Media : Salt and salt mixtures are non-combustible.  
Unsuitable Extinguishing Media : Not applicable.  
Specific Hazards Arising from the Chemical : During fire, gases hazardous to health may be formed.  
Special Protective Equipment and Precautions for Firefighters : Use appropriate firefighting PPE as a general precaution.  
Fire-fighting Equipment/Instructions : Salt is not combustible and is thus not the material of concern for firefighting equipment or methods.  
Specific Methods : In the event of a fire, equipment and methods that are consistent with the combusting material should be utilized.  
General Fire Hazards : No unusual fire or explosion hazards noted.  
Hazardous Combustion Products : Chlorine. Hydrogen chloride. Oxides of sodium.  
Explosion Data  
Sensitivity to Mechanical Impact : Not available.  
Sensitivity to Static Discharge : Not available.

**Section 6: Accidental Release Measures**

Personal Precautions, Protective Equipment and Emergency Procedures : Restrict area to facilitate clean up.  
Methods and Materials for Containment and Cleaning up : Stop the flow of material, if this is without risk. Prevent direct entry into waterways and sewers. Following product recovery, flush area with water if necessary. For waste disposal, see section 13 of the SDS.  
Environmental Precautions : Avoid direct release into waterways and sewers.

**Section 7: Handling and Storage**

Precautions for Safe Handling: Use care in handling/storage. Avoid breathing dust.  
Conditions for Safe Storage, Including Any Incompatibilities : Store in original tightly closed container. Store away from incompatible materials, i.e, strong oxidizing agents (see Section 10)

**Section 8: Exposure Controls and Personal Protection**

Occupational Exposure Limits : No exposure limits noted for ingredient(s).

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
Eye/face Protection	:	Safety glasses if eye contact is possible.
Skin Protection	:	
Hand Protection	:	If there is constant skin contact, rubber gloves are recommended.
Other	:	Wear suitable protective clothing.
Respiratory Protection	:	No personal respiratory protective equipment normally required.
Thermal Hazards	:	Not applicable.
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.

### Section 9: Physical and Chemical Properties

Appearance	:	Crystalline.
Physical State	:	Solid.
Form	:	Solid.
Color	:	Varies
Odor	:	Odorless
Odor Threshold	:	Not applicable
pH	:	6 - 8 (Neutral)
Melting Point/Freezing Point:	:	Not applicable
Initial Boiling Point and Boiling Range	:	Not applicable
Pour Point	:	Not applicable
Specific Gravity	:	Not applicable
Partition Coefficient (n-octanol/water)	:	Not applicable
Flash Point	:	Not applicable
Evaporation Rate	:	Not applicable
Flammability (solid, gas)	:	Not applicable.
Upper/Lower Flammability or Explosive Limits	:	
Flammability limit – lower (%)	:	Not applicable
Flammability limit – upper (%)	:	Not applicable
Explosive limit - lower (%)	:	Not applicable
Explosive limit - upper (%)	:	Not applicable
Vapor Pressure	:	Not applicable
Vapor Density	:	Not applicable
Relative Density	:	Not applicable
Solubility(ies)	:	Not available.
Auto-Ignition Temperature	:	Not applicable
Decomposition Temperature	:	Not applicable
Viscosity	:	Not applicable

### Section 10: Stability and Reactivity

Reactivity	:	None known.
Possibility of Hazardous Reactions	:	No dangerous reaction known under conditions of normal use.
Chemical Stability	:	Material is stable under normal conditions.
Conditions to Avoid	:	Contact with incompatible materials, i.e strong oxidizing agents.
Incompatible Materials	:	Strong oxidizing agents.



Hazardous Decomposition  
Products : Chlorine gas. Hydrogen chloride. Oxides of sodium.

### Section 11: Toxicological Information

Information on likely routes of exposure

Ingestion : Expected to be a low ingestion hazard.  
Inhalation : No adverse effects due to inhalation are expected.  
Skin Contact : No adverse effects due to skin contact are expected.  
Eye Contact : Direct contact with eyes may cause temporary irritation.

Symptoms Related to the  
Physical, Chemical and

Toxicological Characteristics : Direct contact with eyes may cause temporary irritation.

Information on Toxicological Effects

Acute Toxicity : Not classified.  
Skin Corrosion/Irritation : Prolonged skin contact may cause temporary irritation.  
Exposure Minutes : Not available.  
Erythema Value : Not available.  
Oedema Value : Not available.

Serious Eye

Damage/Eye Irritation : Direct contact with eyes may cause temporary irritation.

Corneal Opacity Value : Not available.

Iris Lesion Value : Not available.

Conjunctival

Reddening Value : Not available.

Conjunctival Oedema Value : Not available.

Recover Days : Not available.

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.

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.

Reproductive Toxicity : This product is not expected to cause reproductive or developmental effects.

Teratogenicity : Not classified.

Specific target organ toxicity – single exposure

Not classified.

Specific target organ toxicity – repeated exposure

Not classified.

Aspiration Hazard : Not classified.

Chronic Effects : Not classified.

Further Information : This product has no known adverse effect on human health.

Name of Toxicological

Synergistic Products : Not available.

### Section 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.

Mobility in General : Not 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 : Collect and reclaim or dispose in sealed containers in accordance with applicable regulations.

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.

**Section 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.

**Section 15: Regulatory Information**

Canadian Federal Regulations: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

WHMIS Status : Not Controlled

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)  
Not regulated.

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)  
Hazard categories Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

SARA 302 Extremely Hazardous Substance - No

SARA 311/312 Hazardous Chemical - No

SARA 313 (TRI reporting)  
Not regulated.

Other Federal Regulations

Safe Drinking Water Act (SDWA)  
Not regulated.

Food and Drug Administration (FDA)  
Not regulated.

US State Regulations

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.

US. Massachusetts RTK - Substance List  
Not regulated.

US. Pennsylvania RTK - Hazardous Substances  
Not regulated.

US. Rhode Island RTK  
Not regulated.

Inventory Status

Country(s) or region Inventory name On inventory (yes/no)\*

Canada Domestic Substances List (DSL) Yes

Canada Non-Domestic Substances List (NDSL) No

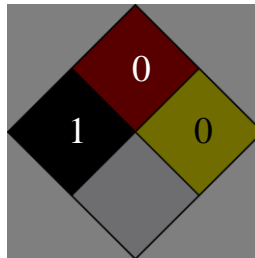
United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**Section 16: Other Information**

HEALTH	/ 1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	E

Legend	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0



Disclaimer : The directions of use for this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is

impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of Groenink's Elevator and Hardware, Inc. or the Seller. All such risks shall be assumed by the Buyer. Groenink's Elevator and Hardware, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in its Direction for Use subject to the inherent risks referred to above. **Groenink's Elevator and Hardware, Inc USA makes no other express or implied Warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Groenink's Elevator and Hardware, Inc. or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product.** Groenink's Elevator and Hardware, Inc. and the Seller offer this product, and the Buyer and user except it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of Groenink's Elevator and Hardware, Inc.

Issue Date : August 17, 2016  
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 Further Information : For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.  
 Prepared By : Grand Valley Distributors, a division of Groenink's Elevator and Hardware  
 Phone: 1-800-682-3142  
 Other Information : This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS). This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.

## V. Ingredient: Magnesium Chloride

### Section 1: Identification

Product Identifier : **Magnesium Chloride Hexahydrate**  
 Other Means of Identification : 7791-18-6  
 Freez Gard® Magnesium Chloride  
 Safe Step® Extreme 8300™ Magnesium Chloride  
 Safe Step® Pro Series® 750 Magnesium Chloride  
 Sifto® Safe Step® Nature's Power™ Magnesium Chloride  
 Safe Step® Sure Paws™  
 Sifto Safe Step® Sure Paws™  
 Recommended Use : Dust suppression, deicing, aqua-culture, general industrial, and specialty uses.  
 Recommended Restrictions : None known  
 Manufacturer : Grand Valley Distributors, a division of Groenink's Elevator and Hardware, Inc.  
 11260 Michigan Ave  
 Nunica, MI 49448  
 Phone: 1-800-682-3142  
 Emergency US CHEMTREC: 1-800-424-9300  
 CHEMTREC : 1-800-424-9300

### Section 2: Hazard 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 substance 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 : Not applicable

### Section 3: Composition and Information on Ingredients

Substance  
 Composition Comments : The criteria for listing components in this section are: Carcinogens, Respiratory Sensitizers, Mutagens, Teratogens, and Reproductive toxins that are listed when present at 0.1% or greater;

components which are otherwise hazardous according to WHMIS/OSHA are listed when present at 1.0% or greater. Non-hazardous components are not listed. The products pertaining to this SDS have various proportions of components which do not meet the listing criteria.

#### Section 4: First Aid Measures

Inhalation	:	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	:	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Eye Contact	:	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	:	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
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.
General Information	:	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:	:	Treat for surrounding material.
Unsuitable Extinguishing Media	:	None known.
Specific Hazards Arising from the Chemical	:	During fire, gases hazardous to health may be formed.
Special Protective Equipment and Precautions for Firefighters	:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-Fighting Equipment/Instructions	:	Use standard firefighting procedures and consider the hazards of other involved materials.
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.
Hazardous Combustion Products	:	May include and are not limited to: Hydrogen chloride. Chlorine gas. Oxides of magnesium.
Explosion data	:	
Sensitivity to Mechanical Impact	:	Not available
Sensitivity to Static Discharge	:	Not available

#### Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures	:	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Methods and Materials for Containment and Cleaning Up	:	This product is miscible in water. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
Environmental Precautions	:	Avoid discharge into drains, water courses or onto the ground.

#### Section 7: Handling and Storage

Precautions for Safe Handling: Conditions for Safe Storage, Including Any Incompatibilities	:	Use care in handling/storage. Avoid breathing dust.  Keep container tightly closed in a cool, dry and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).
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#### Section 8: Exposure Controls and Personal Protection

Occupational Exposure Limits	:	No exposure limits noted for ingredient(s).
Biological Limit Values	:	No biological exposure limits noted for the ingredient(s).
Appropriate Engineering Controls	:	
TWA PEL	:	No specific limits have been established for magnesium 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 magnesium 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. If user operations generate dust, fumes, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual Protection Measures, Such as Personal Protective Equipment	:	Eye/face protection Safety glasses
Skin Protection	:	Hand protection Rubber gloves. Confirm with a reputable supplier first. Other As required by employer code.
Respiratory Protection	:	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator or NIOSH-approved filtering facepiece.
Thermal Hazards	:	Not applicable.
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

Appearance	:	Crystalline.
Physical State	:	Solid.
Form	:	Crystalline.
Color	:	White
Odor	:	Odorless
Odor Threshold	:	Not available.
PH	:	9 - 10 (Basic)
Melting Point/Freezing Point	:	Not available.
Initial Boiling Point and Boiling Range	:	Not applicable
Pour Point	:	Not available.
Specific Gravity	:	1.57 (H <sub>2</sub> O = 1)
Partition Coefficient (n-octanol/water)	:	Not available.
Flash Point	:	Not available.
Evaporation Rate	:	Not available.
Flammability (solid, gas)	:	Not applicable.
Upper/Lower Flammability or Explosive Limits	:	
Flammability Limit – Lower (%)	:	Not available.
Flammability Limit – Upper (%)	:	Not available.
Explosive Limit - Lower (%)	:	Not available.
Explosive Limit - Upper (%)	:	Not available.
Vapor Pressure	:	0.09 kPa (0.7 mmHg) @ 68°C < 0 kPa at 25 °C
Vapor Density	:	Not available.
Relative Density	:	Not available.
Solubility: Soluble	:	
Auto-Ignition Temperature	:	Not available.
Decomposition Temperature	:	Not available.
Viscosity	:	Not available.

#### Section 10: Stability and Reactivity

Reactivity	:	Reactive with oxidizing agents, acids, metals in presence of moisture.
Possibility of Hazardous Reactions	:	No dangerous reaction known under conditions of normal use.
Chemical Stability	:	Material is stable under normal conditions.
Conditions to Avoid	:	Contact with incompatible materials.
Incompatible Materials	:	Acids, Strong oxidizing agents, Metals.
Hazardous Decomposition Products	:	May include and are not limited to: Hydrogen chloride. Chlorine gas. Oxides of magnesium.

#### Section 11: Toxicological Information

##### Information on Likely Routes of Exposure

Ingestion	:	Expected to be a low ingestion hazard.
Inhalation	:	No adverse effects due to inhalation are expected.
Skin Contact	:	No adverse effects due to skin contact are expected.
Eye Contact	:	Direct contact with eyes may cause temporary irritation.
Symptoms Related to the Physical, Chemical, and Toxicological Characteristics	:	Direct contact with eyes may cause temporary irritation.

#### Information on Toxicological Effects

Acute Toxicity	:	Not classified.
Skin Corrosion/Irritation	:	Prolonged skin contact may cause temporary irritation.
Exposure Minutes	:	Not available.
Erythema Value	:	Not available.
Oedema Value	:	Not available.
Serious Eye Damage and Eye Irritation	:	Direct contact with eyes may cause temporary irritation.
Corneal Opacity Value	:	Not available.
Iris Lesion Value	:	Not available.
Conjunctival Reddening Value	:	Not available.
Conjunctival Oedema Value	:	Not available.
Recover Days	:	Not available.
Respiratory or Skin Sensitization		
Respiratory Sensitization	:	Not classified.
Skin Sensitization	:	This product is not expected to cause skin sensitization.
Germ Cell Mutagenicity mutagenic or genotoxic.	:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
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.
Reproductive Toxicity	:	This product is not expected to cause reproductive or developmental effects.
Teratogenicity	:	Not classified.
Specific Target Organ Toxicity - Single Exposure	:	Not classified.
Specific Target Organ Toxicity - Repeated Exposure:		Not classified.
Aspiration Hazard	:	Not classified.
Chronic Effects	:	Not classified.
Further Information	:	This product has no known adverse effect on human health.
Name of Toxicologically Synergistic Products	:	Not available.

#### Section 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.
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<u>Product</u>	<u>Species</u>	<u>Test Results</u>
Magnesium Chloride Hexahydrate		
Aquatic		
Crustacea	EC50	Calanoid copepod (Eudiaptomus padanus padanus) 95 - 342 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) 1580 - 2740 mg/l, 96 hours
Persistence and Degradability:		No data is available on the degradability of this product.
Bioaccumulative Potential	:	No data available.
Mobility in Soil	:	No data available.
Mobility in General	:	Not 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	:	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.

#### Section 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.

**Section 15: Regulatory Information**

Canadian Federal

Regulations : This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

WHMIS Status : Not Controlled

US Federal Regulations

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

Not regulated.

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)

Hazard Categories

Immediate Hazard - No

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

SARA 302 Extremely Hazardous Substance - No

SARA 311/312 Hazardous Chemical - No

SARA 313 (TRI reporting) - Not regulated.

Other Federal Regulations

Safe Drinking Water Act (SDWA)

Not regulated.

Food and Drug Administration (FDA)

Total food additive

Direct food additive

GRAS food additive

US State Regulations : 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.

US. Massachusetts RTK - Substance List

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

US. Rhode Island RTK

Not regulated.

Inventory Status

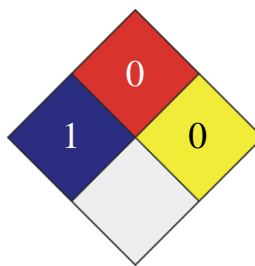
Country(s) or Region	Inventory Name	On Inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**Section 16: Other Information**

HEALTH	/ 1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	E

Legend	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0



Disclaimer : The directions of use for this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather

conditions, presence of other materials, or the manner of use or application all of which are beyond the control of Groenink's Elevator and Hardware, Inc. or the Seller. All such risks shall be assumed by the Buyer. Groenink's Elevator and Hardware, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in its Direction for Use subject to the inherent risks referred to above. **Groenink's Elevator and Hardware, Inc USA makes no other express or implied Warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Groenink's Elevator and Hardware, Inc. or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product.** Groenink's Elevator and Hardware, Inc. and the Seller offer this product, and the Buyer and user except it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of Groenink's Elevator and Hardware, Inc.

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 Phone: 1-800-682-3142  
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## VI. Ingredient: Calcium Chloride

### Section 1: Identification

Product identifier : **Calcium Chloride**  
 Other Means of Identification: IceAway Max, Safe Step Extreme 7300 Calcium Chloride  
 Recommended Use : De-icer.  
 Recommended Restrictions : None known  
 Manufacturer : Grand Valley Distributors, a division of Groenink's Elevator and Hardware, Inc.  
 11260 Michigan Ave  
 Nunica, MI 49448  
 Phone: 1-800-682-3142  
 Emergency US CHEMTREC: 1-800-424-9300  
 CHEMTREC : 1-800-424-9300

### Section 2: Hazard Identification

Physical Hazards : Not classified.  
 Health Hazards : Acute toxicity, oral Category 4  
 Serious eye damage/eye irritation Category 2A  
 Environmental Hazards : Not classified.  
 OSHA Defined Hazards : Not classified.  
 Label Elements



Signal Word : Warning  
 Hazard Statement : Harmful if swallowed and causes serious eye irritation.  
 Precautionary Statement  
 Prevention : Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye/face protection.  
 Response : If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. 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.  
 Storage : Store away from incompatible materials.  
 Disposal : Dispose of contents/container in accordance with local/regional/national/international regulations.  
 Hazard(s) not otherwise classified (HNOC) : None known.  
 Supplemental Information : 100% of the mixture consists of component(s) of unknown acute inhalation toxicity.

### Section 3: Composition and Information on Ingredients

Mixture

Chemical Name	Common name and Synonyms	CAS Number	%
Calcium chloride		10043-52-4	60-100



#### Composition Comments

US GHS : The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

#### Section 4: First Aid Measures

Inhalation : If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.  
Skin Contact : Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.  
Eye Contact : 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.  
Ingestion : If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth.  
Most Important  
Symptoms/Effects, Acute and Delayed : Symptoms may include stinging, tearing, redness, swelling, and blurred vision.  
Indication of Immediate Medical Attention and Special Treatment Needed : Treat patient symptomatically.  
General Information : Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes. Keep out of reach of children.

#### Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Dry chemical, CO2, water spray or regular foam.  
Unsuitable Extinguishing Media : Not available.  
Specific Hazards Arising from the Chemical : Firefighters should wear a self-contained breathing apparatus.  
Special Protective Equipment and Precautions for Firefighters : Firefighters should wear full protective clothing including self contained breathing apparatus.  
Fire-Fighting Equipment/Instructions : In the event of fire, cool tanks with water spray. Cool containers with flooding quantities of water until well after fire is out.  
Specific Methods : Use standard firefighting procedures and consider the hazards of other involved materials.  
General Fire Hazards : No unusual fire or explosion hazards noted.  
Hazardous Combustion Products : May include and are not limited to: Hydrogen chloride. Chlorine gas. Calcium oxide  
Explosion Data  
Sensitivity to Mechanical Impact : Not available.  
Sensitivity to Static Discharge : Not available.

#### Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures : Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and Materials for Containment and Cleaning Up : Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. For waste disposal, see section 13 of the SDS.

Environmental Precautions : Do not discharge into lakes, streams, ponds or public waters.

#### Section 7: Handling and Storage

Precautions for Safe Handling: Avoid contact with eyes. Avoid breathing dust. Use only with adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash thoroughly after handling. When using do not eat or drink.

Conditions for Safe Storage, Including Any Incompatibilities :

Store in a closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

#### Section 8: Exposure Controls and Personal Protection

Occupational Exposure Limits : No exposure limits noted for ingredient(s).  
Biological Limit Values : No biological exposure limits noted for the ingredient(s).

Exposure Guidelines		
TWA PEL	:	No specific limits have been established for calcium chloride (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 calcium chloride (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.
Appropriate Engineering Controls	:	Ensure adequate ventilation.
Individual protection measures, such as personal protective equipment		
Eye/face Protection:		Wear safety glasses with side shields (or goggles).
Skin Protection		
Hand Protection	:	Wear suitable gloves.
Other	:	As required by employer code.
Respiratory Protection	:	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
Thermal Hazards	:	Not applicable.
General Hygiene Considerations	:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. When using do not eat or drink.

### Section 9: Physical and Chemical Properties

Appearance	:	Pellets
Physical State	:	Solid.
Form	:	Solid.
Color	:	White
Odor	:	Odorless
Odor Threshold	:	Not applicable
pH	:	Not available
Melting Point/Freezing Point	:	1421.6 °F (772 °C)
Initial Boiling Point and Boiling Range	:	3515 °F (1935 °C)
Pour Point	:	Not applicable
Specific Gravity	:	Not available
Partition Coefficient (n-octanol/water)	:	Not applicable
Flash Point	:	Not applicable
Evaporation Rate	:	Not applicable
Flammability (solid, gas)	:	Not applicable.
Upper/Lower Flammability or Explosive Limits		
Flammability limit – lower (%)		Not available.
Flammability limit – upper (%)		Not available.
Explosive limit - lower (%)		Not available.
Explosive limit - upper (%)		Not available.
Vapor Pressure	:	Not applicable
Vapor Density	:	Not applicable
Relative Density	:	0.75 g/cm <sup>3</sup> @ 20°C
Solubility	:	745 g/l
Auto-Ignition Temperature	:	Not applicable
Decomposition Temperature	:	Not available.
Viscosity	:	Not applicable

### Section 10: Stability and Reactivity

Reactivity	:	This product may react with oxidizing agents.
Possibility of Hazardous Reactions	:	Hazardous polymerization does not occur.
Chemical Stability	:	Stable under recommended storage conditions.
Conditions to Avoid	:	Do not mix with other chemicals.
Incompatible Materials	:	Acids, Oxidizers, and Hot water.
Hazardous Decomposition		

Products : May include and are not limited to: Chlorine gas. Calcium oxide. Hydrogen chloride.

**Section 11: Toxicological Information**

Routes of Exposure : Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

Ingestion : Not a normal route of exposure. May cause stomach distress, nausea or vomiting.

Inhalation : Not a normal route of exposure. May cause respiratory tract irritation.

Skin Contact : No adverse effects due to skin contact are expected.

Eye Contact : Causes serious eye irritation.

Symptoms Related to the

Physical, Chemical and

Toxicological Characteristics : Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute Toxicity : Harmful if swallowed.

<u>Components</u>	<u>Species</u>	<u>Test Results</u>
Calcium chloride (CAS 10043-52-4)		
Acute		
<i>Dermal</i>		
LD50	Rat	2630 mg/kg
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Mouse	1940 mg/kg
	Rat	1000 mg/kg
Skin Corrosion/Irritation	: Prolonged skin contact may cause temporary irritation.	
Exposure Minutes	: Not available.	
Erythema Value	: Not available.	
Oedema Value	: Not available.	
Serious Eye		
Damage/Eye Irritation	: Causes serious eye irritation.	
Corneal Opacity Value	: Not available.	
Iris Lesion Value	: Not available.	
Conjunctival Reddening		
Value	: Not available.	
Conjunctival Oedema Value	: Not available.	
Recover Days	: Not available.	
Respiratory or Skin Sensitization		
Respiratory Sensitization	: Not available.	
Skin Sensitization	: This product is not expected to cause skin sensitization.	
Germ Cell Mutagenicity	: Not classified.	
Mutagenicity	: Not classified.	
Carcinogenicity	: Not classified or listed by IARC, NTP, OSHA and ACGIH.	
Reproductive Toxicity	: Not classified.	
Teratogenicity	: Not classified.	
Specific target organ toxicity - single exposure		
Not classified.		
Specific target organ toxicity - repeated exposure		
Not classified.		
Aspiration Hazard	: Not classified.	
Chronic Effects	: Not available.	
Further Information	: Not available.	
Name of Toxicologically		
Synergistic Products	: Not available.	

**Section 12: Ecological Information**

Ecotoxicity : See below

<u>Components</u>	<u>Species</u>	<u>Test Results</u>
Calcium chloride (CAS 10043-52-4)		
Crustacea	EC50	Daphnia
		52 mg/L, 48 Hours
Aquatic		
Fish	LC50	Fathead minnow
		(Pimephales promelas)
		3930 - 5360 mg/l, 96 hours

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

Bioaccumulative Potential : No data available.

Mobility in Soil : No data available.

Mobility in General : Not 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 : Dispose of contents/container in accordance with local/regional/national/international regulations.  
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 : 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.

### Section 14: Transport Information

General

Canada: TDG Proof of Classification: In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue. If applicable, the technical name and the classification of the product will appear below.

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

### Section 15: Regulatory Information

Canadian Federal Regulations: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Canada Priority Substances List (Second List): Listed substance

Calcium chloride (CAS 10043-52-4) Listed.

WHMIS Status : Controlled

WHMIS Classification : Class D - Division 2B

WHMIS Labeling



US Federal Regulations : This product is 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.

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)

Hazard categories

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

SARA 302 Extremely Hazardous Substance - No

SARA 311/312 Hazardous Chemical - No

SARA 313 (TRI reporting)

Not regulated.

Other Federal Regulations

Safe Drinking Water Act (SDWA)

Not regulated.

Food and Drug Administration (FDA)

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 - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US - Texas Effects Screening Levels: Listed substance

Calcium chloride (CAS 10043-52-4) Listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

US. Rhode Island RTK

Not regulated.

Inventory status

Country(s) or region Inventory name On inventory (yes/no)\*

Canada Domestic Substances List (DSL) Yes

Canada Non-Domestic Substances List (NDSL) No

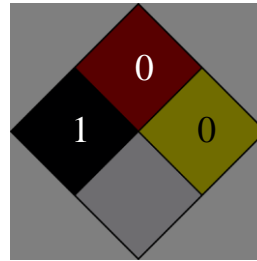
United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**Section 16: Other Information**

HEALTH	/ 1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	E

Legend	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0



- Disclaimer : The directions of use for this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of Groenink's Elevator and Hardware, Inc. or the Seller. All such risks shall be assumed by the Buyer. Groenink's Elevator and Hardware, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in its Direction for Use subject to the inherent risks referred to above. **Groenink's Elevator and Hardware, Inc USA makes no other express or implied Warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Groenink's Elevator and Hardware, Inc. or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product.** Groenink's Elevator and Hardware, Inc. and the Seller offer this product, and the Buyer and user except it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of Groenink's Elevator and Hardware, Inc.
- Issue Date : August 17, 2016
- Effective Date : August 17, 2016
- Expiry Date : Reoccurring
- Further Information : For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.
- Prepared By : Grand Valley Distributors, a division of Groenink's Elevator and Hardware  
Phone: 1-800-682-3142
- Other Information : This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS). This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.