



# SAFETY DATA SHEET (SDS)

## Section 1: PRODUCT & COMPANY IDENTIFICATION

**Product Name** Ice Crusher, Ice Melter  
Twenty Below Zero, Ice Melter  
Twenty Below Zero Plus, Ice Melter

**Product Use** De-icer

**Manufacturer(s)** Blending/Bagging **Salt Depot Inc**  
5442 Wells Park Road  
West Jordan, Utah 84084  
801-282-1250

**24 Hour Hotline** **CHEMTREC**  
800-424-9300

## Section 2: HAZARDS IDENTIFICATION

**Calcium Chloride** CAS# 10043-52-4

**Eye irritation** Category 2B Serious eye irritant  
**Skin Corrosion/Irritation** Category 2 Skin Irritant



**Signal word:** Warning

**Hazard Statement** Causes serious eye irritation  
Causes skin irritation

**Precautions:** Wash hands thoroughly after handling  
Do not eat, drink, or smoke when using this product.  
Wear protective gloves / clothing / eye protection  
Keep out of the reach of children

**Responses:** **In in eyes:** Rinse continuously with water for 15 minutes. Remove contacts, if present, and easy to do. Continue rinsing.  
If eye irritation persists, seek medical attention.  
**If on skin:** wash with large amounts of soap and water  
If skin irritation persists, seek medical attention.  
Take off contaminated clothing  
**If swallowed:** call a poison control center or a doctor/physician if you feel unwell. Rinse mouth.

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 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. So salt, magnesium chloride, and potassium chloride are not needed.

## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient(s)	CAS#	Percent	Classification
Sodium Chloride	7647-14-5	80 - 92%	Not Classified
Magnesium Chloride Hexahydrate	7791-18-6	1%	Not Classified
Calcium Chloride	10043-52-4	6 - 20%	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
Potassium Chloride	7447-40-7	0.90%	Not Classified
Acid Purple Liquid Colorant Blend (Xanthene and Triphenylmethane dyes)	Proprietary	< 0.10%	Not Classified

## Section 4: FIRST AID MEASURES

**First Aid Procedures**

**Eye Contact** Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

**Skin Contact** Flush with cool water. Wash with soap & water. Obtain medical attention if irritation persists.

**Inhalation** If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

**Ingestion** Do not induce vomiting. Rinse mouth with water, then drink 1 to 2 glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.

**Notes to Physician** Treat symptomatically and supportively.

## Section 5: FIRE FIGHTING MEASURES

**Flammable Properties** Not flammable by WHMIS/OSHA criteria.

**Flash Point & Method** N/A

**Flammable Limits** N/A

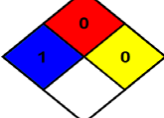
**Extinguishing Media**

**Suitable Extinguishing Media** Treat for surround material, water spray, dry chemicals, foam or carbon dioxide.

**Unsuitable Extinguishing Media** N/A

**Section 5: FIRE FIGHTING MEASURES, continued**

**Protection of Firefighters**  
**Specific Hazards Arising from the Chemical** N/A  
**Protective Equipment for Firefighters** Firefighters should wear full protective clothing, including self contained breathing apparatus.  
**Unusual Fire & Explosion Hazards** None

<b>NFPA FIRE HAZARDS</b>			<b>LEGEND</b> Minimal Slight Moderate Serious Severe	
Health:	1			0
Fire:	0			1
Reactivity:	0			2
Specific:	N/A			3
			4	

**Section 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Methods of Containment** None necessary.

**Methods for 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. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. Discard containers except for storage and shipment of original product.

**Section 7: HANDLING & STORAGE**

**Handling** Avoid breathing dusts from this material.  
**Storage** Keep out of reach of children. Keep containers tightly closed in a cool, well-ventilated place.

**Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Limits**  
**Ingredient(s)** **Exposure Limits**  
 Sodium Chloride ACGIH-TLV  
 Not established  
 OSAH-PEL  
 Not established  
 Calcium Chloride ACGIH-TLV  
 Not established  
 OSAH-PEL  
 Not established

**Engineering Controls**  
 TWA PEL: No specific limits have been established for magnesium chloride & sodium chloride (a soluble substance). As a guideline, OSHA 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-hr TWA PEL, 15mg/cu.m. Total dust 8-hr TWA PEL

TWA TLV: No specific limits have been established for magnesium chloride & sodium chloride (a soluble substance). As a guideline, ACGIH has established the following limits which are generally recognized for inert or nuisance dust. Particulates not otherwise classified (PNOC):  
 10mg/cu.m. Respirable dust 8-hr TWA TLV, 15mg/cu.m. Total dust 8-hr 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 limits.

**Personal Protective Equipment**  
**Eye / Face Protection** Safety Glasses.  
**Hand Protection** Rubber gloves. Confirm with a reputable supplier first.  
**Skin & Body Protection** As required by employer code.  
**Respiratory Protection** Where exposure guideline may be exceeded, use an approved NIOSH respirator or NIOSH approved filtering facepiece.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks & immediately after handling product.

**Section 9: PHYSICAL & CHEMICAL PROPERTIES**

Appearance	Crystalline
Color	Purple
Form	Crystalline
Odor	Slightly aromatic
Odor Threshold	Not available
Physical State	Solid
pH	6-8 neutral
Melting Point	Not available
Freezing Point	Not available
Boiling Point	Not available
Flash Point	Not available
Evaporation Rate	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Specific Gravity	2.17 (H@) @20 C
Relative Density	2.17 g/cm3
Octanol/Water Coefficient	Not available
Solubility (H2O)	36g/100g H2O @ 20 C
Partition Coefficient	Not available
Auto-ignition Temperature	Not available
Percent Volatile	0% w/w
Molecular Weight	Not available
Molecular Formula	Not available

**Section 10: CHEMICAL STABILITY REACTIVITY INFORMATION**

Chemical Stability	Stable under recommended storage conditions.
Conditions to Avoid	Do not mix with incompatible materials.
Incompatible Materials	Reactive with oxidizing agents, acids, metals in presence of moisture, lithium, bromine, trifluoride.
Hazardous Decomposition Products	May include and are not limited to: Halogenated compounds. Hydrogen chloride.
Possibility of Hazardous Reactions	

**Section 11: TOXICOLOGICAL INFORMATION**

<b>Component Analysis-LC50</b>	
Ingredients	LC50
Calcium Chloride	Not available
Sodium Chloride	>21000 mg/m3 rat
Magnesium Chloride	Not available
<b>Component Analysis-Oral LD50</b>	
Ingredients	LD50
Calcium Chloride	1000 mg/kg rat
Sodium Chloride	3000 mg/kg rat
Magnesium Chloride	2800 mg/kg rat
<b>Effects of Acute Exposure</b>	
<b>Eye</b>	May cause irritation.
<b>Skin</b>	May cause irritation.
<b>Inhalation</b>	Dust of this product may cause irritation of the nose, throat, & respiratory tract.
<b>Ingestion</b>	May cause stomach distress, nausea or vomiting.
<b>Sensitization</b>	Not classified or listed by IARC, NTP, OSHA, and ACGIH.
<b>Chronic Effects</b>	Not classified or listed by IARC, NTP, OSHA, and ACGIH.
<b>Carcinogenicity</b>	Not classified or listed by IARC, NTP, OSHA, and ACGIH.
<b>Mutagenicity</b>	Not classified or listed by IARC, NTP, OSHA, and ACGIH.
<b>Reproductive Effects</b>	Not classified or listed by IARC, NTP, OSHA, and ACGIH.
<b>Teratogenicity</b>	Not classified or listed by IARC, NTP, OSHA, and ACGIH.

**Section 12: ECOLOGICAL INFORMATION**

<b>Sodium chloride (7647-14-5)</b>	
LC50 Fish 1	5560 (5560 - 6080) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
EC50 Daphnia 1	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 2	340.7 (340.7 - 469.2) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
<b>Magnesium chloride hexahydrate (7791-18-6)</b>	
LC50 Fish 1	1970 - 3880 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	140 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
<b>Calcium chloride (10043-52-4)</b>	
LC50 Fish 1	10650 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	2400 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Ecotoxicity</b>	May be harmful to freshwater aquatic species and to plants that are not tolerant.
<b>Environmental Effects</b>	Not available.
<b>Aquatic Toxicity</b>	Not available.
<b>Persistence / Degradability</b>	Not available.
<b>Bioaccumulation / Accumulation</b>	Not available.
<b>Mobility in Environmental Media</b>	Not available.
<b>Chemical Fate Information</b>	Not available.

**Section 13: DISPOSAL CONSIDERATIONS**

Waste codes Not available.  
 Disposal instruction Waste must be disposed of in accordance with federal, state & local environmental controls.  
 Wasteform Residues / Unused Products Not available.  
 Contaminated Packaging Not available.

**Section 14: TRANSPORTATION INFORMATION**

Department of Transportation (DOT)  
 Not regulated as dangerous goods  
 Transportation of Dangerous Goods (TDG)  
 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 MSDS contains all the information required.  
 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.  
 Occupational Safety & Health Administration  
 29 CFR 1910.1200 Hazardous Chemical No  
 CERCLA (Superfund) Reportable Quantity  
 None  
 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  
 Section 302 Extremely Hazardous Substance No  
 Section 311 Hazardous Chemical  
 Clean Air Act (CAA) Not available.  
 Clean Water Act (CWA) Not available.  
 Safe Drinking Act (SDWA) Not available.  
 Drug Enforcement Agency (DEA) Not available.  
 Food and Drug Administration Not available.  
 WHMIS Status Not controlled.  
 State Regulations This product does not contain any chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.  
 Inventory Name  

Country or Region	Inventory Name	On Inventory (yes/no)
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NSDL)	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**

Disclaimer Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

SDS Revision Date 1-Nov-2020  
 Other Information This SDS conforms to the ANSI Z400.1/Z129-2010 (Rev. 12/2012)