THE KISSNER GROUP
32 Cherry Blossom Road
Cambridge, Ontario N3H 4R7
1 (800) 434-8248 • (519) 279-4860
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SAFETY DATA SHEET

Section 1: Product Identification

Product Name	**Safer Than Salt® Premium Performance Ice Melter with CI-56™**
Identified Uses	Melt Snow and Ice
Supplier's Details	The Kissner Group 32 Cherry Blossom Road, Cambridge, Ontario, Canada N3H 4R7
Phone Number	(519) 279-4860
Emergency Contact (24 Hrs)	(613) 996-6666 CANUTEC

Section 2: Hazard Identification

Classification (GHS)	Not Classified
GHS Labelling	No Labelling applicable
Percentage	Not applicable
Other Hazards	Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. When heated to decomposition, emits toxic fumes. Corrosive to metals upon prolonged contact.

Section 3: Composition/Information On Ingredients

Ingredients	Percentage	CAS. NO.	Classification
Sodium Chloride	80.0-99.9%	7647-14-5	Not Classified
Calcium Chloride	0.01-5.0%	10043-52-4	Eye Irrit. 2A, H319
Magnesium Chloride	0.01-5.0%	7786-30-3	Not Classified
Calcium Magnesium Acetate (CMA)	0.01-5.0%	76123-46-1	Acute Tox. 4 (Inhalation:dust,mist), H332; Eye Irrit. 2B, H320
Potassium Chloride	0.01-5.0%	7447-40-7	Aquatic Acute 3, H402
Product may contain color indicator		N/A	

Section 4: First-Aid Measures

Description of First Aid Measures

General	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.
Inhalation	When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.
Skin Contact	Remove contaminated clothing. Brush off loose particles. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation persists. Wash contaminated clothing before reuse.

Eye Contact	Rinse cautiously with water for several minutes. Brush off loose particles. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.
Ingestion	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms and Effects Both Acute and Delayed

General	Dust may cause mechanical irritation to eyes, nose, throat, and lungs
Inhalation	Prolonged contact with large amounts of dust may cause mechanical irritation.
Skin Contact	Skin contact with large amounts of dust may cause mechanical irritation.
Eye Contact	Contact may cause irritation due to mechanical abrasion
Ingestion	Ingestion is not likely to be harmful or have adverse effects
Other	Contact with large amount of dust may cause mechanical irritation to eyes, nose, throat, and lungs.
Chronic Symptoms	Not available

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:	Use extinguishing media appropriate for surrounding fire.
Unsuitable Extinguishing Media:	Do not use a heavy water stream. Use of heavy stream of water may spread fire.
Fire Hazard:	Not considered flammable but may burn at high temperatures.
Explosion Hazard:	Product is not explosive.
Reactivity:	When heated to decomposition, emits toxic fumes. Toxic Gas.
Hazardous Combustion Products:	Toxic fumes are released. Hydrogen chloride. Sodium oxides. Chlorine.
Other Information:	Do not allow run-off from firefighting to enter drains or water courses.

Section 6: Accidental Release Measures

Personal Precautions	Avoid breathing (dust). Avoid all contact with skin, eyes, or clothing.
Protective Equipment:	Use appropriate personal protection equipment (PPE).
Environmental Precautions	Prevent entry to sewers and public waters. Avoid release to the environment.
Methods for Cleaning Up	Clear up spills immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping. Contact competent authorities after a spill.

Section 7: Handling And Storage

Precautions for Safe Handling

Additional Hazards When Processed	When heated to decomposition, emits toxic fumes. Contact with water causes an exothermic heat reaction, which may cause significant temperature rise. Corrosive to metals upon prolonged contact. May release hydrogen gas on prolonged contact with certain metals.

Hygiene Measures	Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures	Comply with applicable regulations
Storage Conditions	Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from extremely high or low temperatures, direct sunlight, heat, ignition sources, and incompatible materials.
Incompatible Materials	Strong acids. Strong bases. Strong oxidizers.

Section 8: Exposure Controls/Personal Protection

Control Parameters	No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.
Appropriate Engineering Controls	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed. Ensure adequate ventilation, especially in confined areas
Personal Protective Equipment	Protective goggles. Protective clothing. Insufficient ventilation: wear respiratory protection. Gloves.

Materials for Protective Clothing:	Chemically resistant materials and fabrics.
Hand Protection:	Wear chemically resistant protective gloves.
Eye Protection:	Chemical goggles or face shield.
Skin and Body Protection:	Wear suitable protective clothing.
Respiratory Protection:	Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations are expected to exceed exposure limits.

Section 9: Physical And Chemical Properties

Appearance	Green Colored Granules. Odorless.
Vapour Pressure (mm Hg at 20°C)	Not available
Vapour Density (Air = 1.0)	Not available
Bulk Density	Not available
Solubility in Water	Water Soluble
Specific Gravity (gm/cc, Water = 1.0)	Not available

% Volatile by Volume	Non-volatile
Boiling Point	Not available
Melting Point	Not available
Coefficient of Water/Oil Distribution	Not available
pH	10 (1% solution @ 20°C)

Section 10: Stability And Reactivity

Chemical Stability:	Stable under normal conditions.
Reactivity:	When heated to decomposition, emits toxic fumes. Toxic Gas.
Possibility of Hazardous Reactions:	Polymerization occurs with calcium chloride when mixed with methyl vinyl ether.
Conditions to Avoid:	Direct sunlight. Extremely high or low temperatures. Incompatible materials.
Incompatible Materials:	Strong acids. Strong bases. Strong oxidizers. Reactive metals.
Hazardous Decomposition Products:	Toxic gases. Hydrogen chloride. Chlorine. Sodium oxides. Oxides of magnesium. Oxides of calcium.

Section 11: Toxicological Information

Acute Toxicity:	Not classified
LD50 and LC50 Data:	Not available
Skin Corrosion/Irritation:	Not classified
Serious Eye Damage/Irritation:	Not classified
Respiratory or Skin Sensitization:	Not classified
Germ Cell Mutagenicity:	Not classified
Teratogenicity:	Not available
Carcinogenicity:	Not classified
Specific Target Organ Toxicity (Repeated Exposure):	Not classified
Reproductive Toxicity:	Not classified
Specific Target Organ Toxicity (Single Exposure):	Not classified
Aspiration Hazard:	Not classified

Information on Toxicological Effects - Ingredient(s)

Sodium chloride (7647-14-5)	LD50 Oral Rat	3 g/kg
	LC50 Inhalation Rat	> 42 g/m³ (Exposure time: 1 h)
Calcium Chloride (10043-52-4)	LD50 Oral Rat	1455-2781 mg/kg
	LD50 Dermal Rabbit	> 5000 mg/kg
Calcium Magnesium Acetate (76123-46-1)	LC50 Inhalation Rat	> 4600 mg/m³ (Exposure time: 4 h)
Potassium Chloride (7447-40-7)	LD50 Oral Rat	2600 mg/kg

Section 12: Ecological Information

Toxicity No additional information available

Sodium chloride (7647-14-5)

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])

Calcium Chloride (10043-52-4)

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)

Potassium Chloride (7447-40-7)

LC50 Fish 1	1060 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [stactic])
EC50 Daphnia 1	825 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	750-1020 mg/l (Exposure time: 96 h - Species: Pimephales Promelas [stactic])
EC50 Daphnia 2	83 mg/l (Exposure time: 48 h - Species: Daphnia magna [stactic])

Persistence and degradability Not available

Bio accumulative potential

Sodium chloride (7647-14-5)	BCF Fish 1	(no bioaccumulation)
Calcium chloride (10043-52-4)	BCF Fish 1	(no bioaccumulation)

Mobility in Soil Not available

Other Information Avoid release to the environment

Section 13: Disposal Considerations

Waste Disposal Recommendations Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Section 14: Transport Information

In Accordance with DOT	Not regulated for transport
In Accordance with IMDG	Not regulated for transport
In Accordance with IATA	Not regulated for transport
In Accordance with TDG	Not regulated for transport

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Section 15: Regulatory Information

US Federal Regulations

Sodium chloride (7647-14-5)	Listed on the United States TSCA (Toxic Substances Control Act) inventory
Calcium chloride (10043-52-4)	Listed on the United States TSCA (Toxic Substances Control Act) inventory
Potassium Chloride (7447-40-7)	Listed on the United States TSCA (Toxic Substances Control Act) inventory

Canadian Regulations

Safer Than Salt® Premium Performance Ice Melter with CI-56™	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

Sodium chloride (7647-14-5)	Listed on the Canadian DSL (Domestic Substances List)
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

Calcium chloride (10043-52-4)	Listed on the Canadian DSL (Domestic Substances List)
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Magnesium Chloride (7786-30-3)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

Calcium Magnesium Acetate (76123-46-1)	Listed on the Canadian DSL (Domestic Substances List)
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Potassium Chloride (7447-40-7)	Listed on the Canadian DSL (Domestic Substances List)
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

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

Section 16: Other Information

Other Information	**This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.**
Effective Date	**May 1, 2015**
Version	**1**
Contact	**sds@kissner.com**

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