

SAFETY DATA SHEET

Section 1: Product Identification

Product Name 5 Below Ice Melter
Identified Uses Melt Snow and Ice
Supplier's Details Advanced Turf Solutions Inc.
12840 Ford Drive, Fishers IN 46038 USA
Phone Number (317) 842-1088
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	90 - 100%	7647-14-5	Not Classified
Calcium Chloride	0 - 5%	10043-52-4	Eye Irrit. 2A, H319
Magnesium Chloride	0 - 5%	7786-30-3	Not Classified
Product may contain color indicator			

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. 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.

Inhalation 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.

Skin 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.

Eye Contact Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Ingestion

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

Physical State	Solid
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Appearance	Blue colored granules
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	338°F (198°C)
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/m ³ (Exposure time: 1 h)
Calcium Chloride (10043-52-4)	LD50 Oral Rat	1455-2781 mg/kg
	LD50 Dermal Rabbit	> 5000 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)

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

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

Canadian Regulations**5 Below**

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

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

WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
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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:** April 8, 2015**Version** 1

The information is, to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to review this information, satisfy themselves as to its suitability and completeness and pass on the information to its employees or customers. Advanced Turf Solution Inc. does not accept responsibility for any loss or damage, which may occur from the use of this information.