Ice Destroyer

Safety Data Sheet

June 1, 2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name :Ice Destroyer

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Ice Melting

1.3. Details of the supplier of the safety data sheet

Alpine Packaging Ltd.
#15,26313 Township Road 531A
Acheson, AB Canada

1.4. Emergency telephone number

780-960-3625

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture Classification (GHS-US) Eye Irrit. 2A H319

Full text of H-phrases: see section 16

WHMIS Classification

D2B - Class D Division 2 Subdivision B - Toxic material causing other toxic effects

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :

GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H319 - Causes serious eye irritation

Precautionary statements (GHS-US) : P264 - Wash thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 - If eye irritation persists: Get medical advice/attention

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Sodium chloride	(CAS No) 7647-14-5	90 - 95	Not classified
Calcium chloride	(CAS No) 10043-52-4	5-10	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
Magnesium chloride (MgCl2), hexahydrate	(CAS No) 7791-18-6	0 - 1	Not classified
Calcium Magnesium Acetate (CMA)	(CAS No) 76123-46-1	0.01-5.0%	Acute Tox. 4(Inhalation:dust,mist), H332; Eye Irrit. 2B, H320

Sodium chloride (7647-14-5)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
Calcium chloride (10043-52-4)	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Magnesium chloride (MgCl2), hexahydrate (7791-18-6)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

4.1. Description of first aid measures

First-aid measures after inhalation : Remove to fresh air if effects occur. Consult a physician.

First-aid measures after skin contact : Wash off in flowing water or shower.

First-aid measures after eye contact : Irrigate with flowing water immediately and continuously for 15 minutes. Contact medical personnel (if required).

First-aid measures after ingestion : Do not induce vomiting. Give large amounts of water or milk if available and transport to medical facility.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Dusts may cause irritation to upper respiratory tract.

Symptoms/injuries after skin contact : Short single exposure is not likely to cause significant skin irritation. Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response if confined to skin or skin is abraded (scratched or cut).

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : Single dose oral toxicity is believed to be low. Small amounts swallowed incidental to normal handling procedures are not likely to cause injury; swallowing amounts larger than that may cause injury. Ingestion may cause gastrointestinal irritation or ulceration.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1.

Extinguishing media

Suitable extinguishing media : Dry chemical, chemical foam, carbon dioxide. Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

Fire hazard : None known. Explosion hazard : None known.

5.3.

Advice for firefighters

Protection during firefighting : Wear positive pressure self contained breathing apparatus (SCBA) and full protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves).

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Isolate area. Avoid contact with eye and skin. Wash exposed body areas thoroughly after handling. Use appropriate safety equipment.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

For small spills: losses incidental to correct applications of thisproduct in its intended uses are not expected to be harmful to the environment. For large spills: avoid contamination of drinking water, natural water, ground water, or any waterway. Losses incidental to correct applications of this product in its intended uses are not expected to be harmful to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Stop the flow of material, if this is without risk.

Methods for cleaning up : Contain spill if possible. Use broom or by vacuum to collect material for proper disposal. Rinse area with water. Prevent large spills from entering sewers or waterways.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : No special storage needed.

7.3. Specific end use(s)

Ice Melting

8.1 . Control parameters

ılcium chloride (10043-52-4)		
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O ıtario	OEL TWA (mg/m³)	5 mg/m³

8.2 .

Exposure controls

Appropriate engineering controls : Atmospheric levels should be maintained below the exposure guideline.

Hand protection : If hands are cut or scratched, use gloves impervious to this material for brief exposures. Use gloves with insulation for thermal protection, when needed.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Wear suitable working clothes. Selection of specific items such as gloves, boots, apron, or other, will depend on each operation.

Respiratory protection : When respiratory protection is required for certain operations, use an approved air-purifying respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and che

Physical state	: Solid
Color	: Blue.
Odor	: Odorless.
Odor threshold	: No data available
(10% solution)	pH : 7
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available

Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Density	: 1100 - 1400 kg/m3
Solubility	: Completely soluble.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions. Hygroscopic.

10.3. Possibility of hazardous reactions

Will not occur.

10.4. Conditions to avoid

Temperatures >350°C

10.5. Incompatible materials

React with sulfuric acid and zinc.

10.6. Hazardous decomposition products

Does not decompose.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Sodium chloride (7647-14-5)	
LD50 oral rat	3 g/kg
LC50 inhalation rat (mg/l)	> 42 g/m³ (Exposure time: 1 h)
ATE US (oral)	3000000.000 mg/kg
Calcium chloride (10043-52-4)	
LD50 oral rat	1000 mg/kg
LD50 dermal rat	2630 mg/kg
ATE US (oral)	1000.000 mg/kg body weight
ATE US (dermal)	2630.000 mg/kg body weight

Skin corrosion/irritation : Not classified pH: 7 (10% solution)

Serious eye damage/irritation : Causes serious eye irritation. pH: 7 (10% solution)

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : 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

12.1. Toxicity

Sodium chloride (7647-14-5)	
LC50 fish 1	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)
LC50 fish 2	12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 2	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)

12.2. Persistence and degradability

No additional information available

12.3.

Bioaccumulative potential

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

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Based largely or completely on data for major component(s), material is practically non-toxic to aquatic organisms on an acute basis (LC50 greater than 100 mg/L in most sensitive species).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations.

In accordance with TDG and US DOT

Not a dangerous good as defined in transport regulations

SECTION 15: Regulatory information

CANADA

Canadian Ice Melter	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Sodium chloride (7647-14-5)	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
Calcium chloride (10043-52-4)	
Calcium Magnesium Acetate(76123-46-1)	

WHMIS Classification	Class D Division 2 Subdivision B-Toxic material causing other toxic effects
Listed on the Canadian DSL (Domestic Substances List) inventory.	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

15.1. International 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

SECTION 16: Other information

Full text of H-phrases::

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
H302	Harmful if swallowed
H319	Causes serious eye irritation

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product