

Safety Data Sheet: X-ICE DE-ICER

Supersedes Date 06/09/2014

Issuing Date 11/01/2018

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name X-ICE DE-ICER
Recommended use Ice melting compound
Information on Manufacturer
CHEMSEARCH FE DIV. OF NCH CORP.
BOX 152170
IRVING, TX 75015

Product Code 4854
Chemical nature Mixture of inorganic salts
Emergency Telephone
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color White

Physical state Solid

Odor Odorless

GHS Classification

Physical Hazards

None

Health Hazard

Acute Oral Toxicity
Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation

Category 4
Category 2
Category 2B

Other hazards

None

Labeling

Signal Word

WARNING



Hazard statements

H315 - Causes skin irritation
H320 - Causes eye irritation
H302 - Harmful if swallowed

Precautionary Statements

P280 - Wear protective gloves, protective clothing and eye protection.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P332 + P313 - If skin irritation occurs, get medical attention.
P362 - Take off contaminated clothing and wash before reuse.
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 attention.
P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P501 - Dispose of contents and container in accordance with applicable local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Calcium chloride	10043-52-4	80-100
Potassium chloride	7447-40-7	1-5
Sodium chloride	7647-14-5	1-5

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

General advice
Eye Contact

Avoid contact with skin, eyes and clothing. Avoid breathing dust.
Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation

Skin Contact	develops and persists. Wipe up with absorbent material (e.g. cloth, fleece). Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.
Inhalation	No hazards which require special first aid measures.
Ingestion	Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
Notes to physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point Not applicable	Method No data available	Lower: No data available
Flammability Limits in Air %: No information available.	Upper: No data available	
Suitable Extinguishing Media Carbon dioxide (CO ₂). Foam. Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Specific hazards arising from the chemical None known.		
Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear.		
NFPA	Health 1	Flammability 0
HMIS -	Health 1	Flammability 0
		Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
Environmental precautions	Do not flush into surface water or sanitary sewer system.
Methods for Containment	Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and arrange disposal without creating dust.
Methods for Cleaning Up	Pick up and transfer to properly labeled containers. Avoid dust formation.
Neutralizing Agent	Not applicable.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing. Avoid breathing dust.
Storage	Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.
Storage Temperature	Minimum 35 °F / 2 °C
Storage Conditions	Maximum 120 °F / 49 °C
	Indoor X Outdoor Heated Refrigerated

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines			
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Sodium chloride	No data available	5 mg/m ³ PNOR (as solid)	No data available
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.		
Personal Protective Equipment			
Eye/Face Protection	Safety glasses with side-shields.		
Skin Protection	For prolonged or repeated contact, use protective gloves with appropriate chemical resistance.		
Respiratory Protection	In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.		
General Hygiene Considerations	Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.		

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid	Viscosity	Not applicable
Color	White	Odor	Odorless
Odor Threshold	Not applicable	Appearance	granules
pH	Not applicable	Specific Gravity	No data available
Bulk Density (lb/cu ft)	62	Evaporation Rate	Not applicable
Percent Volatile (Volume)	Not applicable	VOC Content (%)	Not applicable
VOC Content (g/L)	Not applicable	Vapor Pressure	0 mmHg @ 70°F
Vapor Density	Not applicable	Solubility	Completely soluble
n-Octanol/Water Partition	No data available	Melting Point/Range	1422 °F / 772 °C

Decomposition Temperature	No data available	Boiling Point/Range	Not applicable
Flammability (solid, gas)	No data available	Method	No data available
Flash Point	Not applicable		
Autoignition Temperature	No information available.		
Flammability Limits in Air %:	No information available	Upper: No data available Lower: No data available	

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	Keep away from open flames, hot surfaces, and sources of ignition, Extremes of temperature and direct sunlight, Avoid dust formation.
Incompatible Products	Acids, Water, Strong oxidizing agents, Light and/or alkaline metals, Zinc.
Decomposition Temperature	No data available
Hazardous Decomposition Products	Hydrogen, by reaction with metals, Hydrogen chloride gas.
Possibility of Hazardous Reactions	Avoid moisture.

11. TOXICOLOGICAL INFORMATION

Product Information

LD50 Oral 1090 mg/kg Rat	LD50 Dermal 2805 mg/kg	LC50 Inhalation No information available
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The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50 No information available

Dermal LD50 No information available

Inhalation LC50

Gas No information available

Mist No information available

Vapor No information available

Principle Route of Exposure Skin contact, Eye contact, Inhalation.

Primary Routes of Entry None known.

Acute Effects:

Eyes Causes eye irritation.

Skin Causes skin irritation.

Inhalation Low hazard for usual industrial or commercial handling.

Ingestion Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Toxicity: Prolonged skin contact may cause skin irritation and/or dermatitis.

Target Organ Effects: None known.

Aggravated Medical Conditions Skin disorders, Respiratory disorders.

Component Information

Acute Toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Calcium chloride 10043-52-4	= 1000 mg/kg (Rat)	= 2630 mg/kg (Rat)	No data available	No data available	No data available
Potassium chloride 7447-40-7	= 2600 mg/kg (Rat)	no data available	No data available	No data available	No data available
Sodium chloride 7647-14-5	= 3 g/kg (Rat)	no data available	> 42 g/m ³ (Rat) 1 h	No data available	No data available

Chronic Toxicity No information available.

Carcinogenicity There are no known carcinogenic chemicals in this product.

12. ECOLOGICAL INFORMATION

Product Information

No information available.

Component Information

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficient
Calcium chloride	No information available.	LC50 = 10650 mg/L Lepomis macrochirus 96 h	No information available	2400: 48 h Daphnia magna mg/L LC50	N/A
Potassium chloride	EC50 = 2500 mg/L Desmodesmus subspicatus 72 h	LC50 = 1060 mg/L Lepomis macrochirus 96 h LC50 750 - 1020 mg/L Pimephales promelas 96 h	No information available	825: 48 h Daphnia magna mg/L EC50 83: 48 h Daphnia magna mg/L EC50 Static	N/A
Sodium chloride	No information available.	LC50 5560 - 6080 mg/L Lepomis	No information available	1000: 48 h Daphnia	N/A

		macrochirus 96 h LC50 = 12946 mg/L Lepomis macrochirus 96 h LC50 6020 - 7070 mg/L Pimephales promelas 96 h LC50 = 7050 mg/L Pimephales promelas 96 h LC50 6420 - 6700 mg/L Pimephales promelas 96 h LC50 4747 - 7824 mg/L Oncorhynchus mykiss 96 h		magna mg/L EC50 340.7 - 469.2: 48 h Daphnia magna mg/L EC50 Static	
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Persistence and Degradability
Bioaccumulation
Mobility

No information available.
 No information available.
 No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal
Container Disposal

Dispose of in accordance with local regulations.
 Empty containers should be taken for local recycling, recovery, or waste disposal. Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
ICAO	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated

15. REGULATORY INFORMATION

Inventories

TSCA

Complies

DSL

Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

See Section 2

CERCLA

16. OTHER INFORMATION

Prepared By	Pamela Starkey
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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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