Safety Data Sheet: X-ICE

Supercedes Date 08/08/2011 **Issuing Date** 06/09/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name X-ICE
Recommended use Ice melting compound
Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

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

2. HAZARD IDENTIFICATION

Color White **Physical State** Granular **Odor** Odorless

GHS
Classification
Physical Hazards
None
Health Hazard

Acute Oral Toxicity	Category 4
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ systemic toxicity (repeated exposure)	Category 2

Other hazards
None

Labeling
Signal Word
WARNING

Hazard Statements
H319 - Causes serious eye irritation
H302 - Harmful if swallowed
H373 - May cause damage to organs through prolonged or repeated exposure

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
P260 - Do not breathe dust.
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 regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Calcium chloride	10043-52-4	60-100
Potassium chloride	7447-40-7	1-5
Sodium chloride	7647-14-5	1-5

4. FIRST AID MEASURES

General advice Avoid contact with skin, eyes and clothing. Avoid breathing dust.
Eye Contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately.
Skin Contact Wash off with soap and plenty of water. Get medical attention if irritation develops and persists.
Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms occur.

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. Rinse mouth.

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point Does not flash **Method** Not applicable

Flammability Limits in Air % Hydrogen, by reaction with metals. **Upper** 75 **Lower** 4

Suitable Extinguishing Media

Carbon dioxide (CO2). 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, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA **Health** 2 **Flammability** 0 **Instability** 0

HMIS **Health** 2 **Flammability** 0 **Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Prevent further leakage or spillage if safe to do so.

Environmental Precautions Do not flush into surface water or sanitary sewer system.

Methods for Containment Pick up and arrange disposal without creating dust.

Methods for Cleaning Up 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 **Maximum** 120 °F / 49 °C

Storage Conditions **Indoor** X **Outdoor** **Heated** **Refrigerated**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Calcium chloride	No data available	No data available	No data available
Potassium chloride	No data available	No data available	No data available
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 Tightly fitting safety goggles.

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	Granular	**Viscosity**	Solid
Color	White	**Odor**	Odorless
Odor Threshold	Not applicable	**Appearance**	Opaque
pH	Not applicable	**Specific Gravity**	No data available
Bulk Density (lb/cu ft)	45.4	**Evaporation Rate**	0 (Butyl acetate=1)
Percent Volatile (Volume)	0	**VOC Content (%)**	0
VOC Content (g/L)	0	**Vapor Pressure**	0 mmHg @ 70°F
Vapor Density	Not applicable	**Solubility**	Completely soluble
n-Octanol/Water Partition	No data available	**Melting Point/Range**	No data available
Decomposition Temperature	No data available	**Boiling Point/Range**	1422 °F / 772 °C
Flammability (solid, gas)	No data available		
Flash Point	Does not flash	**Method**	Not applicable
Autoignition Temperature	No information available.		
Flammability Limits in Air %	Hydrogen, by reaction with metals.	**Upper** 75 **Lower** 4	

10. STABILITY AND REACTIVITY

Chemical Stability Stable. Hazardous polymerization does not occur.
Conditions to Avoid Avoid dust formation
Incompatible Products Acids, Water, Strong oxidizing agents, Light and/or alkaline metals, Zinc.
Hazardous Decomposition Products Hydrogen, by reaction with metals
Possibility of Hazardous Reactions Water, Potential for exothermic hazard.

11. TOXICOLOGICAL INFORMATION

Product Information

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):
Oral LD50 1,066.06
Dermal LD50 2,842.85
Inhalation LC50
Gas No information available
Mist 21.29
Vapor 21.29

Principle Route of Exposure Skin contact, Eye contact, Inhalation.
Primary Routes of Entry None known
Acute Effects
Eyes Severe irritation. May cause permanent eye injury.
Skin May cause skin irritation.
Inhalation May cause irritation of respiratory tract.
Ingestion Irritating to mouth, throat, and stomach. Can burn mouth, throat, and stomach.
Chronic Toxicity Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.
Target Organ Effects Eyes, Skin, Respiratory system, Gastrointestinal tract, Kidney.
Aggravated Medical Conditions Skin disorders, Respiratory disorders.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Calcium chloride	= 1000 mg/kg (Rat)	= 2630 mg/kg (Rat)	no data available	no data available	no data available
Potassium chloride	= 2600 mg/kg (Rat)	no data available	no data available	no data available	no data available
Sodium chloride	= 3 g/kg (Rat)	no data available	> 42 g/m^3 (Rat) 1 h	no data available	no data available

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Calcium chloride	no data available	no data available	no data available	no data available	skin, eyes, respiratory system, gastrointestinal system
Potassium chloride	no data available	no data available	no data available	no data available	no data available
Sodium chloride	no data available	no data available	no data available	no data available	kidney

Carcinogenicity There are no known carcinogenic chemicals in this product.

Component	ACGIH	IARC	NTP	OSHA	Other
Calcium chloride	not applicable	not applicable	not applicable	not applicable	not applicable
Potassium chloride	not applicable	not applicable	not applicable	not applicable	not applicable
Sodium chloride	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Calcium chloride	no data available	LC50 = 10650 mg/L Lepomis macrochirus 96 h	no data available	LC50 2400 mg/L Daphnia magna 48 h	N/A
Potassium chloride	EC50 = 2500 mg/L Desmodesmus subspicatus 72 h	LC50 750 - 1020 mg/L Pimephales promelas 96 h LC50 = 1060 mg/L Lepomis macrochirus 96 h	no data available	EC50 825 mg/L Daphnia magna 48 h EC50 83 mg/L Daphnia magna 48 h	N/A
Sodium chloride	no data available	LC50 4747 - 7824 mg/L Oncorhynchus mykiss 96 h LC50 5560 - 6080 mg/L Lepomis macrochirus 96 h	no data available	EC50 340.7 - 469.2 mg/L Daphnia magna 48 h EC50 1000 mg/L Daphnia magna 48 h	N/A

		LC50 6020 - 7070 mg/L Pimephales promelas 96 h LC50 6420 - 6700 mg/L Pimephales promelas 96 h LC50 = 12946 mg/L Lepomis macrochirus 96 h LC50 = 7050 mg/L Pimephales promelas 96 h			

Persistence and Degradability No information available.
Bioaccumulation No information available.
Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.
Container Disposal Empty containers should be taken for local recycling, recovery, or waste disposal

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 and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Chronic Health Hazard	Fire Hazard	Sudden Release of Pressure Hazard	Reactive Hazard
Yes	No	No	No	Yes

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Calcium chloride	Not applicable	Not applicable
Potassium chloride	Not applicable	Not applicable
Sodium chloride	Not applicable	Not applicable

16. OTHER INFORMATION

Prepared By Devon Kebodeaux
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Reason for Revision No information available.
Glossary No information available.
List of References. No information available.

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