MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Ace Premium Ice Melter Product Name

CAS# Mixture De-icer. Product use

Manufacturer Manufactured for Ace Hardware by North American Salt Company

> A Compass Minerals Company 9900 West 109th Street, Suite 600 Overland Park, KS 66210 US Phone: 913-344-9200

Supplier Ace Hardware

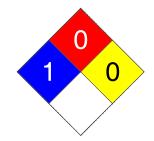
2200 Kensington Court Oak Brook, IL 60523-2100 US

Phone: 630-990-6600 1-800-424-9300

CHEMTREC







2. Hazards Identification

CAUTION **Emergency overview**

Contact may cause eye and skin irritation.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes May cause irritation. Skin May cause irritation.

Dusts of this product may cause irritation of the nose, throat, and respiratory tract. Inhalation

May cause stomach distress, nausea or vomiting. Ingestion

Eyes. Skin. **Target organs**

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Symptoms may include redness, edema, drying, defatting and cracking of the skin. Signs and symptoms

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomitina.

3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Sodium chloride	7647-14-5	60 - 100
Potassium chloride	7447-40-7	3 - 25
Magnesium chloride, hexahydrate	7791-18-6	15 - 40
Urea	57-13-6	0.1 - 1

4. First Aid Measures

First aid procedures

Flush with cool water. Remove contact lenses, if applicable, and continue flushing. **Eve contact**

Obtain medical attention if irritation persists.

Flush with cool water. Wash with soap and water. Obtain medical attention if irritation Skin contact

persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical

Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is Ingestion

convulsing. Obtain medical attention, If vomiting occurs naturally, have victim lean

forward to reduce risk of aspiration.

Notes to physician

Symptoms may be delayed.

If you feel unwell, seek medical advice (show the label where possible). Ensure that General advice medical personnel are aware of the material(s) involved, and take precautions to protect

themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with

eves and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties

Not flammable by WHMIS/OSHA criteria.

Extinguishing media

Dry chemical. Carbon dioxide. Alcohol foam. Water spray.

May include and are not limited to: Hydrogen chloride.

Suitable extinguishing media Unsuitable extinguishing media Not available

Protection of firefighters

Specific hazards arising from

Not available

the chemical

Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing

apparatus.

Hazardous combustion products

Explosion data

Not available

Sensitivity to mechanical

impact

Not available Sensitivity to static discharge

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

Methods for containment Methods for cleaning up

Prevent entry into waterways, sewers, basements or confined areas.

Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

7. Handling and Storage

Handling

Avoid breathing dusts from this material. Use good industrial hygiene practices in handling this material.

Storage

Keep out of reach of children. Store in a closed container away from incompatible

materials.

8. Exposure Controls /	Personal Protection
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Exposure limits		
Ingredient(s)	Exposure Limits	
Magnesium chloride, hexahydrate	ACGIH-TLV	
	Not established	
	OSHA-PEL	
	Not established	
Potassium chloride	ACGIH-TLV	
	Not established	
	OSHA-PEL	
	Not established	
Sodium chloride	ACGIH-TLV	
	Not established	
	OSHA-PEL	
	Not established	
Urea	ACGIH-TLV	
	Not established	
	OSHA-PEL	
	Not established	

Engineering controls

TWA PEL: No specific limits have been established for sodium chloride or magnesium chloride (soluble substances). As a guideline, OSHA (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates Not Otherwise Regulated (PNOR): 5mg/cu.m. Respirable Dust 8-Hour TWA PEL, 15mg/cu.m. Total Dust 8-Hour TWA PEL.

TWA TLV: No specific limits have been established for sodium chloride or magnesium chloride (soluble substances). As a guideline, ACGIH (United States) has established the following limits which are generally recognized for inert or nuisance dust. Particulates (insolubles) Not Otherwise Classified (PNOC): 10mg/cu.m. Inhalable Particulate 8-Hours TWA TLV, 3mg/cu.m. Respirable Particulate TWA TLV.

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Personal protective equipment

Eye / face protection Wear safety glasses with side shields.

Hand protection Rubber gloves. Confirm with a reputable supplier first.

Skin and body protection As required by employer code.

Respiratory protectionWhere exposure guideline levels may be exceeded, use an approved NIOSH respirator.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical & Chemical Properties

Color White Form Crystalline. Odor Odorless Odor threshold Not available Physical state Solid pH Not available Melting point Not available Freezing point Not available Boiling point Not available Flash point Not available	Appearance	Crystalline.
Odor Odorless Odor threshold Not available Physical state Solid PH Not available Melting point Not available Freezing point Not available Boiling point Not available	Color	White
Odor threshold Physical state Solid PH Not available Melting point Not available Freezing point Not available Boiling point Not available	Form	Crystalline.
Physical state Solid pH Not available Melting point Not available Freezing point Not available Boiling point Not available	Odor	Odorless
pH Not available Melting point Not available Freezing point Not available Boiling point Not available	Odor threshold	Not available
Melting point Freezing point Not available Boiling point Not available	Physical state	Solid
Freezing point Boiling point Not available Not available	pH	Not available
Boiling point Not available	Melting point	Not available
	Freezing point	Not available
Flash point Not available	Boiling point	Not available
	Flash point	Not available

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Evaporation rateNot available **Flammability limits in air, lower**, % Not applicable

by volume

Flammability limits in air, upper, % Not applicable

by volume

Vapor pressure
Not available
Vapor density
Not available
Specific gravity
Not available
Octanol/water coefficient
Auto-ignition temperature
Not available
Percent volatile
Not available

10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Do not mix with other chemicals.

Incompatible materials Acids. Oxidizers.

Hazardous decomposition products May include and are not limited to: Hydrogen chloride.

Possibility of hazardous reactions Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50	
Ingredient(s)	LC50
Magnesium chloride, hexahydrate	Not available
Potassium chloride	Not available
Sodium chloride	> 21000 mg/m3 rat
Urea	Not available
Component analysis - Oral LD50	
Ingredient(s)	LD50
Magnesium chloride, hexahydrate	8100 mg/kg rat; 7600 mg/kg mouse
Potassium chloride	1500 mg/kg mouse; 2500 mg/kg guinea pig; 2600 mg/kg rat
Sodium chloride	3000 mg/kg rat; 4000 mg/kg mouse
Urea	11000 mg/kg mouse; 8471 mg/kg rat; 510 mg/kg cattle; 510 mg/kg sheep

Effects of acute exposure

Eye May cause irritation. **Skin** May cause irritation.

Inhalation Dusts of this product may cause irritation of the nose, throat, and respiratory tract.

Ingestion May cause stomach distress, nausea or vomiting.

Sensitization

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Chronic effects

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Carcinogenicity

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Mutagenicity

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Reproductive effects

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Teratogenicity

Not classified or listed by IARC, NTP, OSHA and ACGIH.

Not classified or listed by IARC, NTP, OSHA and ACGIH.

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12. Ecological Information

Ecotoxicity May be harmful to freshwater aquatic species and to plants that are not saline tolerant.

Ecotoxicity - Freshwater Algae Data

Potassium chloride 7447-40-7 72 Hr EC50 Scenedesmus subspicatus: 2500 mg/L

Ecotoxicity - Freshwater Fish Species Data

7447-40-7 Potassium chloride 96 Hr LC50 Lepomis macrochirus: 2010 mg/L [static]

Sodium chloride 7647-14-5 96 Hr LC50 Lepomis macrochirus: 9675 mg/L [flow-through]: 96 Hr LC50 Lepomis macrochirus: 12946 mg/L [static]; 96 Hr LC50 Pimephales promelas: 7650 mg/L [static]

57-13-6 96 Hr LC50 Leuciscus idus: >3810 mg/L Urea

Ecotoxicity - Microtox Data

57-13-6 Urea 5 Min EC50 Photobacterium phosphoreum: 23914 mg/L

Ecotoxicity - Water Flea Data

Potassium chloride 7447-40-7 48 Hr EC50 Daphnia magna: 825 mg/L Sodium chloride 7647-14-5 48 Hr EC50 Daphnia magna: 1000 mg/L

Urea 57-13-6 24 Hr EC50 Daphnia magna straus: >10000 mg/L

Environmental effects Not available Not available Aquatic toxicity Persistence / degradability Not available Bioaccumulation / accumulation Not available Partition coefficient Not available Not available Mobility in environmental media Not available Chemical fate information Other adverse effects Not available

13. Disposal Considerations

Waste codes Not available

Disposal instructions Waste must be disposed of in accordance with federal, state/provincial and local

environmental control regulations.

Waste from residues / unused

products

Not available

Not available Contaminated packaging

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

This product has been classified in accordance with the hazard criteria of the Controlled Canadian federal regulations

Products Regulations and the MSDS contains all the information required by the

Controlled Products Regulations.

This product is not known to be a "Hazardous Chemical" as defined by the OSHA **US Federal regulations**

> Hazard Communication Standard, 29 CFR 1910.1200. CERCLA/SARA Hazardous Substances - Not applicable.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

CERCLA (Superfund) reportable quantity

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - No **Hazard categories**

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

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Section 302 extremely No hazardous substance

Section 311 hazardous chemical No

Clean Air Act (CAA)

Clean Water Act (CWA)

Safe Drinking Water Act (SDWA)

Drug Enforcement Agency (DEA)

Not available

Not available

Not available

Not available

(FDA)

WHMIS status Not Controlled

State regulations This product does not contain a chemical known to the State of California to cause

cancer, birth defects or other reproductive harm.

U.S. - Minnesota - Hazardous Substance List

Urea 57-13-6 Present

Inventory name

Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer Information contained herein was obtained from sources considered technically accurate

and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the

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