Material Safety Data Sheet

An electronic version of this MSDS is

available at the following web address:





Safe Step Ice Melter

Section 1. Product and Company Identification

Common Name

Safe Step Ice Melter

: North American Salt Company 8300 College Boulevard

Overland Park, KS 66210, USA

Synonyms

Supplier

: Not available. Not available.

Trade name Material Uses

: Deicing

Manufacturer

Name

North American Salt Company 8300 College Boulevard

Overland Park, KS 66210, USA (913) 344-9100

Code

: Not available.

MSDS#

: Not available.

Preparation Date

: 10/30/2002.

Print Date

10/30/2002.

In Case of Emergency

: Canada:

CANUTEC-1-613-996-6666

CHEMTREC-1-800-424-9300

Section 2. Composition, Information on Ingredients

Potassium Chloride,	(KCI)

CAS# **Exposure Limits**

> TWA PEL: No specific limits have been established for potassium chloride or sodium 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 potassium chloride or sodium 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 TWA TLV, 3mg/cu.m. Respirable Particulate TWA TLV.

Sodium chloride, (NaCl) Urea, (CH₄N₂O) Methyl Glucoside, (C7H14O6) 7647-14-5 57-13-6 97-30-3

7447-40-7

Section 3. Hazards Identification

Emergency Overview

: White crystalline solid.

CAUTION!

MAY CAUSE EYE IRRITATION.

Routes of Entry

: Absorbed through skin. Eye contact. Inhalation. Ingestion.

Potential Acute Health Effects

Eyes: Slightly hazardous in case of eye contact (irritant).

Skin: Slightly hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening,

or, occasionally, blistering.

Inhalation: Slightly hazardous in case of inhalation (lung irritant).

Ingestion: Slightly hazardous in case of ingestion.

Potential Chronic Health Effects

Carcinogenic Effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

Mutagenic Effects: Not available. Teratogenic Effects: Not available.

by Overexposure: Potential Environmental Effects: Maybe harmful to freshwater aquatic species and to plants that are not saline tolerant.

Medical Conditions Aggravated : Repeated or prolonged exposure is not known to aggravate medical condition.

See Toxicological Information (section 11)

Continued on Next Page

Page: 2/5 Safe Step Ice Melter

Section 4. First Aid Measures

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least Eye Contact

15 minutes. Cold water may be used. Obtain medical attention if irritation persist.

: Wash with soap and water. Cold water may be used. Obtain medical attention if irritation persists. Skin Contact

If inhaled, remove to fresh air. If not breathing, give artificial respiration. Obtain medical attention if irritation persists. Inhalation

Do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Obtain Ingestion

medical attention.

Notes to Physician : Not available.

Section 5. Fire Fighting Measures

Flammability of the Product : Non-flammable. **Autoignition Temperature** : Not applicable.

Flash Points : Not applicable. Flammable Limits : Not applicable.

: May release toxic fumes of chlorine and potassium, sodium oxides. **Products of Combustion**

Fire Hazards in Presence of Not applicable Various Substances

: Risks of explosion of the product in presence of mechanical impact: Not applicable. **Explosion Hazards in Presence** Risks of explosion of the product in presence of static discharge: Not applicable. of Various Substances : Use extinguishing media suitable for surrounding materials.

and Instructions

: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Protective Clothing (Fire)

Special Remarks on Fire : Not available.

Hazards

Hazards

: Not available.

Section 6. Accidental Release Measures

Small Spill and Leak : Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements

: Contact emergency service for advice. Use a shovel to put the material into a convenient waste disposal container. Large Spill and Leak Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system

Section 7. Handling and Storage

: Avoid breathing dust. Avoid contact with incompatibles. Handling

: Keep container tightly closed. Keep container in a cool, well-ventilated area. Storage

Section 8. Exposure Controls, Personal Protection

: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below **Engineering Controls** recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

Fire Fighting Media

Special Remarks on Explosion

Eyes: Safety glasses.

Body: Protective clothing may be worn in dusty area, but is generally not required.

Respiratory: NIOSH approved filtering facepiece may be necessary.

Section 9. Physical and Chemical Properties

: Not available

Physical State and Appearance: White crystalline solid.

Color : White. Odor : Odorless. Molecular Weight : Not available. : Not applicable. Molecular Formula pH (5% Soln/Water) : Not available.

Continued on Next Page

Boiling/Condensation Point

Page: 3/5 Safe Step Ice Melter

Melting/Freezing Point : Not available. : Not available. Critical Temperature : Not available. Specific Gravity : Not available. Vapor Pressure Not available. Vapor Density : Not available. Volatility Not available. **Odor Threshold** Not available. **Evaporation Rate**

 Not available. VOC Not available. Viscosity

: Not available. LogKow

Partially soluble in cold water, hot water. Solubility

Section 10. Stability and Reactivity

: The product is stable. Stability and Reactivity

Not available. Conditions of Instability : Reactive with acids.

Incompatibility with Various Substances

Hazardous Decomposition

: Not available.

Products

: Will not occur. **Hazardous Polymerization**

Section 11. Toxicological Information

: LD50: 3,000 mg/kg oral, rat (Sodium chloride); 2,600 mg/kg oral, rat (Potassium chloride); 8,471 mg/kg oral, rat Toxicity to Animals

(Urea): LC50: > 21,000 mg/m3 4 h, rat (Sodium chloride);

Carcinogenic Effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH. Chronic Effects on Humans

May cause damage to the following organs: eyes, endothelium.

Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation (lung irritant). Other Toxic Effects on Humans

Special Remarks on Toxicity to Not available.

Animals

Special Remarks on Chronic

Effects on Humans

: Not available.

Special Remarks on Other Toxic : Not available.

Effects on Humans

Section 12. Ecological Information

: Maybe harmful to freshwater aquatic species and to plants that are not saline tolerant. **Ecotoxicity**

: Not available. **BOD** and COD : Not available. Biodegradable/OECD Mobility

: These products are halogenated compounds. Some metallic oxides. **Products of Degradation**

Toxicity of the Products of

Biodegradation

Not available.

: Not applicable. Special Remarks

Section 13. Disposal Considerations

: Waste must be disposed of in accordance with federal, state and local environmental control regulations. Waste Information

: Not available. Waste Stream

Consult your local or regional authorities.

Section 14. Transport Information

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label
DOT Classification	Not applicable.	Not applicable.	Not a DOT controlled material (United States).	Not applicable.	
TDG Classification	Not applicable.	Not applicable.	Not a TDG controlled material.	Not applicable.	
ADR/RID Class	Not available.	Not available.	Not available.	Not available.	
IMDG Class	Not available.	Not available.	Not available.	Not available.	
IATA-DGR Class	Not available.	Not available.	Not available.	Not available.	

Section 15. Regulatory Information

HCS Classification

: Not controlled under the HCS (United States).

U.S. Federal Regulations

: TSCA 8(b) inventory: Potassium Chloride 7447-40-7; Sodium chloride 7647-14-5; Urea 57-13-6; Methyl glucoside 97-30-3

Not listed under SARA 302, 304 or 313.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Potassium Chloride: Immediate (Acute)

Health Hazard

SARA 313 toxic chemical notification and release reporting. No ingredient was found.

Not listed under CWA.

Not listed under CAA.

Not listed under CERCLA.

Clean Air Act (CAA) 112 regulated flammable substances: No ingredient was found.

Clean Air Act (CAA) 112 regulated toxic substances: No ingredient was found.

CERCLA: Hazardous substances.: No ingredient was found.

State Regulations

: No products were found under New Jersey, New York and Pennsylvania RTK.

California Prop. 65: No ingredient was found.

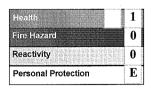
Canadian Regulations

: Not controlled under WHMIS (Canada).

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16. Other Information

Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)



References

: Not available.

Other Special Considerations

: Not available.

Date of printing

: 10/30/2002.

Preparation Date

: 10/30/2002.

Prepared by

: Dell Tech Laboratories Ltd. (519) 858-5021

Safe Step Ice Melter

Page: 5/5

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.