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P.O. Box 8089
Shawnee Mission, KS 66208

04118

<input type="radio"/> H <input type="radio"/> F <input type="radio"/> PE	CHEMICAL NAME Miracle Ice Melt
	MANUFACTURER Scotwood IND, INC
	DATE MSDS 04118

Lab Safety Supply Inc. Reorder No. 17135

Telephone:
(913) 722-3244
(800) 844-2022
Fax:
(913) 722-2207

Date Prepared: January, 1992

Identity: Miracle Melt Ice Melt
Contains a proprietary combination of Potassium Chloride, Sodium Chloride and Calcium Chloride

Hazardous Ingredients/Identity Information:
Does not contain Hazardous Components

Physical/Chemical Characteristics:

Boiling Point:	Not Applicable
Vapor Pressure:	Not Applicable
Vapor Density:	Not Applicable
Melting Point:	Not Applicable
Evaporation Rate:	Not Applicable
Specific Gravity:	2.076
Solubility in Water:	317 gpl @ 0 degrees .C
Appearance & Odor:	White Dry Granules, Minimal Odor

Fire and Explosion Hazard Data:

Flash Point:	Not Applicable
Flammable Limits:	Not Applicable
Lel and Uel:	Not Applicable
Extinguishing Media:	Water or Foam
Spec. Fire Fighting Procedures:	None
Unusual Fire & Explosion Hazards:	None

Reactivity Data:

Stability:	Stable
Condition to Avoid:	Strong Oxidizing Acids
Incompatibility:	Not Applicable
Hazardous Decomposition or By-Products:	Not Applicable
Hazardous Polymerization:	Will Not Occur

Health Hazard Data:**Routes of Entry**

Inhalation: Not Applicable Under Normal Conditions

Skin: Not Applicable Under Normal Conditions

Ingestion: Not Applicable Under Normal Conditions

Health Hazards: None Known

Carcinogenicity: NTP Not Applicable

Larc Monographs Not Applicable

OSHA Regulated Not Applicable

Signs & Symptoms of Exposure: None

Medical Conditions Generally Aggravated by Exposure: None Known

Emergency and First Aid Procedures: Wash Off With Water

In case of eye contact, flush eyes with running water.

If ingested, induce vomiting by lavage with water or milk.

Precautions for Safe Handling and Use:

Steps to be taken in case material is released or spilled:

1. Sweep up clean material into clean container.

Waste Disposal Method:

1. Discard in normal waste disposal according to local regulations.

Precautions to be Taken in Handling or Storage:

1. Store in a dry area - Wash hands after handling

Control Measures:

Respiratory Protection: Not Normally Needed

Ventilation: Not Needed under Normal Conditions

Protective Clothing or Equipment:

Gloves-----Optional

Eye Protection-Optional

Other-----Optional

Work/Hygienic Practices:

Wash Hands after Handling with Warm Soapy Water

Precautions:

Storage and Handling Precautions:

Store in Dry, Well Ventilated Area

Practice Good Housekeeping, Clean up Spills Immediately

References & Definitions:

Combinations: KCL CAS# 7447-40-7

NACL CAS# 7647-14-5

Calcium Chloride CAS# 010043-52-4

(5)

MATERIAL SAFETY DATA SHEET

***** SECTION 1 - COMPANY INFORMATION *****

NAME: Standard Tar Products Co., Inc.
 ADDRESS: 2456 West Cornell Street
 Milwaukee, WI 53209-6294

TELEPHONE: 414/873-7650

EMERGENCY TELEPHONE NUMBER: Call CHEMTREC at 800-424-9300
 for emergencies involving a spill, leak, fire, exposure, or
 accident.

***** SECTION 2 - PRODUCT IDENTIFICATION *****

Product Trade Name: SNOMELT™
 Chemical Name: Calcium Chloride Pellets
 Synonyms: USOL™ Calcium Chloride Pellets
 Chemical Family: Inorganic salt
 Molecular Formula: CaCl₂
 CAS Number: None-mixture
 Hazard Rating (HMIS/NFPA):
 HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0
 PERSONAL PROTECTION: E

***** SECTION 3 - INGREDIENTS *****

Chemical	Wt%	CAS No.	TLV (ACGIH)	PEL (OSHA)
Calcium Chloride	90-92	010043-52-4	None	Established
Sodium Chloride	1-2	007647-14-5	None	Established
Potassium Chloride	2-3	007447-40-7	None	Established
Strontium Chloride	1	010476-85-4	None	Established
Water	Bal.	007732-18-5	None	Established

***** SECTION 4 - PHYSICAL DATA *****

Melting point: Approximately 466° F (230° C)
 Boiling Point: 388° F (190° C)
 Vapor Pressure: 1.0 mm Hg. at 20° C (68° F)
 Vapor Density: Not applicable
 Solubility in Water: Very soluble
 Specific Gravity: 2.2
 Appearance: white to off-white solid pellets
 Odor: None
 Evaporation Rate: Not applicable

***** SECTION 5 - FIRE AND EXPLOSION HAZARD DATA *****

Flash Point: Not applicable
 Method Used: Not applicable

Flammable Limits:
 LFL Not applicable
 UFL Not applicable

Extinguishing Media: Non-combustible

Fire and Explosion Hazards: None

Fire-Fighting Equipment: Wear positive pressure self-contained breathing apparatus.

***** SECTION 6 - REACTIVITY DATA *****

Stability: (Conditions to Avoid) Decomposes at 349° F

Incompatibility: (Specific Materials to Avoid) Calcium chloride will: corrode most metals exposed to air; attack aluminum (and its alloys) and yellow brass; react with sulfuric acid to form hydrogen chloride which is corrosive, irritating, and reactive; give an exothermic reaction with water-reactive materials such as sodium; result in a runaway polymerization reaction with methyl vinyl ether (Bretherick, 1979); and, in solution form react with zinc (galvanizing) to yield hydrogen gas which is explosive (Ibid). (Bretherick, L., 1979, Handbook of Reactive Chemical Hazards, 2nd Ed.).

***** SECTION 7 - ENVIRONMENTAL AND DISPOSAL INFORMATION *****

Action to take for spills/leaks: Losses incidental to correct application of this product in its intended uses are not expected to be harmful to the environment. Wear appropriate safety apparel during clean-up---see Section 8. Avoid entry of large amount of product into sewers, natural waters, and drinking water sources. Due to possible harmful effects, avoid contact with vegetation, animals and fish life. Recover quickly into suitable, dry, sealable containers if reusing. Small quantities may be flushed away with plenty of water. Walking surfaces may remain wet longer due to moisture being held by spilled product--avoid by thoroughly water washing surfaces.

Disposal Method: Comply with federal, state, and local laws, regulations and procedures. Contact manufacturer and/or authorities for detailed information. Product as sold is not a RCRA listed or characteristic hazardous waste.

***** SECTION 8 - HEALTH HAZARD DATA *****

Primary Route of Entry: Skin contact

Eye: May cause moderate to severe eye irritation with corneal injury, which may be slow to heal.. When dissolving, the heat produced may cause more intense effects as well as thermal burns.

Skin Contact: Short single exposure not likely to cause significant skin irritation. Prolonged or repeated exposure may cause skin irritation, even a burn. May cause more severe response if skin is damp and/or abraded, or if material is confined to skin. When dissolving, the heat produced may cause more intense effects as well as thermal burns. DOT classification: Non-corrosive.

Skin Absorption: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. The LD₅₀ for skin absorption in rabbits is >5000 mg/kg.

Ingestion: Single dose oral toxicity is low. The oral LD₅₀ for rats is in the range of 900-2100 mg/Kg for calcium chloride on a 100% basis. Ingestion may cause gastrointestinal irritation or ulceration.

Inhalation: Vapors are unlikely due to physical properties. Dust may cause irritation to upper respiratory tract.

Systemic & other effects: Results of in vitro mutagenicity tests have been negative for Calcium Chloride. The components of this product are not listed by IARC, NTP or OSHA as carcinogens for hazard communication purposes.

***** SECTION 9 - FIRST AID *****

Eyes: Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.

Skin: Wash off in flowing water or shower.

Ingestion: If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Call a physician. (Never give anything by mouth or attempt to induce vomiting in an unconscious person.)

Inhalation: Remove to fresh air if effects occur. Consult a physician.

Note to Physician: If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reaction of the patient.

***** SECTION 10 - HANDLING PRECAUTIONS *****

Exposure Guidelines: Dow Chemical USA Industrial Hygiene standard is 10 mg/m³ for calcium chloride, sodium chloride and potassium chloride. There is no OSHA PEL or ACGIH TLV for calcium chloride.

Ventilation: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

Respiratory Protection: Atmospheric levels should be maintained below the exposure guidelines. When respiratory protection is required for certain operation, use an approved air-purifying respirator. In dusty atmospheres, use an approved dust respirator.

Skin Protection: For brief contact, no precautions other than clean body-covering clothing should be needed. Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, aprons, or full-body suit will depend on operation. If skin comes in contact with contaminated clothing, remove the clothing immediately, wash skin area with soap and water, and launder clothing before reuse.

Eye Protection: Safety glasses should be sufficient for most operations; however, for dusty operations or when handling solutions of the material, wear chemical goggles. Eye wash fountain should be located in immediate work area.

***** SECTION 11 - ADDITIONAL INFORMATION *****

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid eye and prolonged skin contact. ALWAYS USE COOL WATER (TEMPERATURE LESS THAN 80° F, 27° C) WHEN DISSOLVING CALCIUM CHLORIDE. HEAT DEVELOPED BY SOLUTION IS VERY HIGH DURING DISSOLVING AND MIXING. When exposed to the atmosphere, calcium chloride will pick up water and form a solution. Leather clothing and shoes will be damaged by calcium chloride.

REGULATION INFORMATION: (Not meant to be all-inclusive--selected regulations represented.)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown below. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See MSD Sheet for health and safety information.

U.S. REGULATIONS

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SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard

CANADA REGULATIONS

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The Workplace Hazardous Materials Information System (W.H.M.I.S.) Classification for this product is:
D2B

Transportation

The Transportation of Dangerous Goods Act (T.D.G.A.) classification for this product is:

Not regulated

NOTICE: This Material Safety Data Sheet and the information it contains is offered to you in good faith as accurate, but there is no warranty, either expressed or implied, regarding its accuracy or completeness. Certain health and safety precautions given in this data sheet may not be adequate for all individuals and/or situations. It is the user's responsibility to use this product safely.

The conditions of storage, handling, use and disposal of the product are beyond our control. For this and other reasons, we do not assume any responsibility and expressly disclaim any liability for loss, damage, or expense arising out of or in any way connected with the storage, handling, use or disposal of the product.

EFFECTIVE DATE: January 1, 1991

SUPERSEDES: August 15, 1989