

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
 FAX: 414-873-7737

Effective Date: May 1, 2006

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™ CALCIUM CHLORIDE FLAKE
 Chemical Name: Calcium Chloride Flake
 Synonyms: USOL® Calcium Chloride Flake
 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 *****

<u>Chemical</u>	<u>Wt%</u>	<u>CAS No.</u>
Calcium Chloride	77-80	010043-52-4
Sodium Chloride	1-2	007647-14-5
Potassium Chloride	2-3	007447-40-7
Water	15-20	007732-18-5

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not "Hazardous" per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

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

MELTING POINT: Approximately 345°F, (174°C)
 BOILING POINT: 347°F (175°C)
 VAPOR PRESS: 1.0 mm Hg at 20°C, (68°F)
 VAPOR DENSITY: Not applicable
 SOLUBILITY IN WATER: Very soluble
 SPECIFIC GRAVITY: 1.85
 APPEARANCE: White to off-white flake
 ODOR: None

Product: **SNOMELT™ Calcium Chloride Flake**

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

EXPOSURE GUIDELINE (S): 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 guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator. In dusty atmospheres, use an approved dust respirator.

SKIN PROTECTION: Use protective clothing impervious to this material. Selection of specific items such as gloves, boots, apron, or full-body suit will depend on operation. Use impervious gloves at all times. 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: Use 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.

REGULATORY 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, expressed 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.

Product: **SNOMELT™ Calcium Chloride Flake**

Effective Date: **May 1, 2006**

U.S. REGULATIONS

SARA 313 INFORMATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III, Section 313 supplier notification requirements.

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

OSHA HAZARD COMMUNICATION STANDARD:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

DEPARTMENT OF TRANSPORTATION (D.O.T.)

This product is not regulated by DOT when shipped domestically by land.

CANADA REGULATIONS

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

CANADIAN TDG INFORMATION: For guidance, the Transportation of Dangerous Goods Classification for this product is: Not regulated.

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***** 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 violently with bromine trifluoride or a mixture of boron trioxide and calcium oxide; 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.).

HAZARDOUS DECOMPOSITION PRODUCTS: Not applicable

HAZARDOUS POLYMERIZATION: Will not occur

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

ACTION TO TAKE FOR SPILLS / LEAKS: Losses incidental to correct applications 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 10. 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 authorities for detailed information. Product as sold is not RCRA listed or characteristic hazardous waste.

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

EYE: May cause severe irritation with corneal injury. Effects 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 1100-1600 mg/kg. Ingestion may cause gastrointestinal irritation or ulceration. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury.

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

SYSTEMIC (OTHER TARGET ORGAN) Effects: The components of this product are not listed by IARC, NTP, or OSHA as a carcinogen for hazard communication purposes.

MUTAGENICITY (EFFECTS ON GENETIC MATERIAL): Results of in vitro ("test tube") mutagenicity tests have been negative.

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

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

SKIN: Remove contaminated clothing. Wash off in flowing water or shower.

INGESTION: Induce vomiting if large amounts are ingested. Consult a physician.

INHALATION: Remove to fresh air if effects occur. Consult medical personnel.

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 reactions of the patient.