

MATERIAL SAFETY DATA SHEET

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

NAME: Knight Chemicals LLC
ADDRESS: 7230 West Florist Avenue
Milwaukee, WI 53218
TELEPHONE: 414-461-0100
FAX: 414-461-0903

EMERGENCY TELEPHONE NUMBER: Call Knight Chemicals LLC at 800-825-7650 for emergencies involving a spill, leak, fire, exposure, or accident.

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

Product Trade Name: ROAD CREW™ Serious Ice Melting Crystals
Hazard Rating (HMIS/MFPA):
HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0 PERSONAL PROTECTION: E

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

<u>Chemical</u>	<u>CAS No.</u>	<u>TLV (ACGIH)</u>	<u>PEL (OSHA)</u>
Sodium Chloride	007647-14-5		None Established
Calcium Chloride	010043-52-4		None Established
Magnesium Chloride	007787-30-3		None Established
Potassium Chloride	000057-13-6		None Established

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

DENSITY: 40-70 lb/ft
MELTING POINT: Approximately 1423°F
BOILING POINT: 2732°F
VAPOR PRESSURE: N/A
VAPOR DENSITY: Not applicable
SOLUBILITY IN WATER: Very soluble
SPECIFIC GRAVITY: 2.0
APPEARANCE: White crystalline or granulated solid
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 and full body protection.

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

STABILITY: (Conditions to Avoid) Decomposes at >350°F

INCOMPATIBILITY: Avoid contact with strong acids. Mildly corrosive to metals in the presence of moisture.

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 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 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/or authorities for detailed information. Product as sold is not an 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.

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. 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 ORGANS) EFFECTS: No relevant information found. 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 as directed by medical personnel. 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 *****

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 operation; 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.

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

NOTICE: The information herein is present 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. REGULATION

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

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

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.