

MATERIAL SAFETY DATA SHEET

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

NAME: KNIGHT CHEMICALS LLC
ADDRESS: 7320 West Florist Avenue
Milwaukee, WI 53218
TELEPHONE: 414-461-0100
FAX: 414-461-0903

EMERGENCY TELEPHONE NUMBER: Call Knight Chemicals at 800-824-7650 for emergencies involving a spill, leak, fire, exposure, or accident.

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

Product Trade Name: Ice Melting Rock Salt
Chemical Name: Sodium Chloride
Chemical Family: Inorganic Salt
Formula: NaCl
Molecular Weight: 58.44

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

<u>Chemical</u>	<u>CAS No.</u>
Sodium Chloride	7647-14-5

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

PHYSICAL FORM: White crystalline solid with slight halogen odor
COLOR: White crystalline solid
ODOR: Halogen odor
BOILING POINT (760 mm Hg)(deg C): 760 mm Hg. 1465°C
MELT POINT/FREEZE POINT (deg C): 801°C
PH: 6.7 – 7.3
SOLUBILITY IN WATER (g/cc, %): 26.4%
SPECIFIC GRAVITY (H₂O=1): 2.16
BULK DENSITY: 53 – 83 Lbs/Ft³
% VOLATILE BY WEIGHT: N/A
VAPOR PRESSURE (mm Hg/747 deg C): =2.4
VAPOR DENSITY (Air = 1): N/A

***** 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 – HEALTH HAZARDS

EMERGENCY OVERVIEW: None – GRAS Substance (Generally Recognized AS Safe)

POTENTIAL HEALTH EFFECTS: ROUTE(S) OF ENTRY: Ingestion, skin/eye contact, and inhalation.

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:

ACUTE INHALATION: Irritation of the respiratory tract.

CHRONIC INHALATION: No applicable information found for chronic systemic effects.

ACUTE SKIN CONTACT: Large amounts can cause irritation and, if applied to damaged skin, absorption can occur with effects similar to those via ingestion.

CHRONIC SKIN CONTACT: No applicable information found for chronic systemic effects.

ACUTE EYE CONTACT: Irritation with burning and tearing (salt concentrations greater than the normal saline present).

CHRONIC EYE CONTACT: No applicable information found for chronic systemic effects.

ACUTE INGESTION: Intake of large amounts has generally occurred for deliberate reasons: suicide, absorption, and to induce vomiting. The following effects were observed; nausea and vomiting, diarrhea, cramps, restlessness, irritability, dehydration, water retention, nose bleed, gastrointestinal tract damage, fever, sweating, sunken eyes, high blood pressure, muscle weakness, dry mouth and nose, shock, cerebral (fluid on brain) or pulmonary edema (fluid in lungs), blood cell shrinkage, and brain damage (due to dehydration of brain cells.). Death is generally due to cardiovascular collapse or CNS damage. Less than a few grams would not be harmful. For larger quantities, drink large amounts of water or milk.

CHRONIC INGESTION: No applicable information found for chronic systemic effects.

CARCINOGENICITY:

NTP: Not listed as a carcinogen or mutagen.

IARC: Not listed as a carcinogen or mutagen.

OSHA: Not listed as a carcinogen or mutagen.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: In some cases of confirmed hypertension, ingestion may result in elevated blood pressure.

THRESHOLD LIMIT VALUE: No published data indicating salt is a hazardous material to handle.

EFFECTS OF OVEREXPOSURE: Eyes and skin – considered as a mild irritant.

INHALATION: Dust leaves taste with mild irritation to mucous membrane in nose and throat.

***** SECTION 7 – FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES: Wash area with clean water.

FIRST AID FOR EYES: For eye contact, flush with water immediately, lifting eyelids occasionally.

FIRST AID FOR SKIN: Remove clothing from affected area. Wash skin thoroughly. Rinse carefully.

FIRST AID FOR INHALATION: If person breathes large quantities, remove to fresh air at once. If breathing stops, apply artificial respiration immediately.

FIRST AID FOR INGESTION: Less than a few grams would not be harmful. For larger quantities, drink large amounts of water or milk.

Product: Rock Salt

Effective Date: May 12, 2009

***** SECTION 8 - REACTIVITY DATA *****

STABILITY: Product is stable

CONDITIONS TO AVOID: N/A

INCOMPATIBILITIES: Avoid contact with strong acids.
Becomes corrosive to metals when wet.

DECOMPOSITION PRODUCTS: May evolve chlorine gas when in contact with strong acids.

HAZARDOUS POLYMERIZATION: Will not occur.

***** SECTION 9 – ACCIDENTAL RELEASE MEASURES *****

SPILL OR LEAK PROCEDURES: Contain spills to prevent contamination of water supply or sanitary sewer system. Vacuum or sweep into containers for proper disposal.

***** SECTION 10 - DISPOSAL CONSIDERATIONS *****

WASTE DISPOSAL METHOD: Follow applicable Federal, state and local regulations. Some states are now setting maximum limits on chlorides in waste effluent. Check your state for requirements.

***** SECTION 11 – HANDLING AND STORAGE *****

STORAGE TEMPERATURE (min/max): Avoid humid or wet conditions as product will cake and become hard.

SPECIAL SENSITIVITY: Avoid contact with strong acids.

HANDLING AND STORAGE PRECAUTIONS: Becomes hygroscopic at 70% Relative Humidity. Transport in dry equipment. Storage should be in a dry location.

***** SECTION 12 – EXPOSURE CONTROLS/PERSONAL PROTECTION*****

EYE PROTECTION REQUIREMENTS: Eyeglasses or goggles should be worn in dusty areas.

SKIN PROTECTION REQUIREMENTS: Protective clothing may be worn in dusty areas, but is generally not required.

RESPIRATORY/VENTILATION REQUIREMENTS: NIOSH/MSHA approved respirator for particulates.

EXPOSURE LIMITS: Not listed.

***** SECTION 13 – TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Not listed

TECHNICAL SHIPPING NAME: Not listed

D.O.T. HAZARD CLASS: Not listed

U.N./N.A. NUMBER: Not listed

PRODUCT RQ (lbs.): N/A

D.O.T. LABEL: Not Listed

D.O.T. Placard: N/A

FREIGHT CLASS BULK: N/A

FREIGHT CLASS PACKAGE: N/A

PRODUCT LABEL: N/A

***** SECTION 14 – REGULATORY INFORMATION

OSHA STATUS: Not Listed

TSCA STATUS: Not Listed

CERCLA REPORTABLE QUANTITY:

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: Not Listed

SECTION 311/312 HAZARD CATEGORIES: Not Listed

SECTION 313 TOXIC CHEMICALS: Not Listed

RCRA STATUS: Not listed

