

SAFETY DATA SHEET

ROCK SALT – (SALT) SODIUM CHLORIDE

MSDS NO.: KC006

Rev Date: 02-20-2015

Rev. Num. 00

1. IDENTIFICATION:

COMPANY NAME: Knight Chemicals LLC
ADDRESS: 7320 W. Florist Ave
Milwaukee, WI 53218
TELEPHONE: 1(800)825-7650
FAX: 1(414)461-0903
EMERGENCY CONTACT: Call CHEMTREC at 800-424-9300 for 24 hour Emergency Response involving a spill, leak, fire, exposure, or accident.
TO REQUEST AN SDS: info@knightchemicals.com or www.knightchemicals.com
PRODUCT NAME / USE: Rock Salt - (Salt) Sodium Chloride - Ice Melting

2. HAZARD(S) IDENTIFICATION:

EMERGENCY OVERVIEW:

APPEARANCE: White crystalline or granulated solid
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.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

PRODUCT TRADE NAME: Rock Salt (Salt) – Sodium Chloride
CHEMICAL NAME: Sodium Chloride (NaCl)
SYNONYMS: Ice Melt / Deicer
CHEMICAL FAMILY: Inorganic Salt

<u>CHEMICAL</u>	<u>CAS No.</u>	<u>TLV (ACGIH)</u>	<u>PEL (OSHA)</u>
Sodium Chloride	007647-14-5		None Established

4. FIRST AID MEASURES

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

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

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

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

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

5. FIRE-FIGHTING MEASURES:

FIRE & EXPLOSION HAZARD: None

EXTINGUISHING MEDIA: This material does not burn. If exposed to fire from another source, use a suitable, non-combustible, extinguishing agent for that fire.

FIRE FIGHTING PROCEDURES: Keep people away. Isolate fire and deny unnecessary entry. This material does not burn. Fight fire for other material that is burning. Water should be applied in large quantities as a fine spray.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: Wear positive-pressure, self-containing breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-containing breathing apparatus and fight fire from a remote location.

6. ACCIDENTAL RELEASE MEASURES:

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. Vacuum or sweep into containers for proper disposal.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE GUIDELINES: There are no occupational exposure limits established by OSHA, ACGIH or NIOSH.

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

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.

9. PHYSICAL & CHEMICAL PROPERTIES:

MELTING POINT:	801°C
BOILING POINT:	760 mm Hg. 1465°C
VAPOR PRESSURE:	(mm Hg/747 deg C) = 2.4
VAPOR DENSITY:	Not applicable
SOLUBILITY IN WATER:	(g/cc, %) = 26.4%
SPECIFIC GRAVITY:	2.16
APPEARANCE:	White crystalline or granulated solid
ODOR:	Halogen Odor
EVAPORATION RATE:	Not applicable
FLASH POINT:	Not applicable
METHOD USED:	Not applicable
FLAMMABLE LIMITS:	
LFL	Not applicable
UFL	Not applicable
AUTOIGNITION TEMPERATURE:	Not applicable

10. STABILITY & REACTIVITY:

STABILITY: Stable (Conditions to Avoid: N/A)

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

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

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION:

TOXICITY DATA:

SODIUM CHLORIDE: (CAS# 007647-14-5)

Acute toxicity, LD50, Oral, Rat, 3000 mg / kg.

Acute toxicity, LD50, Skin, Rabbit, 10000 mg / kg.

Acute toxicity, LC50, Inhalation, Rat, 42000 mg / m³, 60 m.

Mutagenic data and tumorigenic data – see Registry of Toxic Effects of chemical Substances RTECS file.

CARCINOGEN STATUS: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

LOCAL EFFECTS: Eye, mucous membrane and skin irritant.

ACUTE TOXICITY LEVEL: Not Classified

12. ECOLOGICAL INFORMATION:

ECOTOXICITY: This product is not classified as environmentally hazardous.

DEGRADABILITY: This product will not biodegrade.

BIOACCUMULATIVE POTENTIAL: Not applicable.

13. DISPOSAL CONSIDERATIONS:

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.

14. TRANSPORT INFORMATION:

U.S. DOT 49 CFR 172.101: Not Regulated

CANADIAN TRANSPORTATION OF DANGEROUS GOODS: Not Regulated

The Transportation of Dangerous Goods Act (T.D.G.A.) classification for this product is: Not Regulated

15. REGULATORY INFORMATION:

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

Superfund Amendments and Reauthorization Act of 1986 Title III Emergency Planning and Community Right-to-Know Act of 1986 Sections 311 and 312 (SARA 311 Classification):

Immediate (Acute) Health Hazard	No
Delayed (Chronic) Health Hazard	No
Fire Hazard	No
Reactivity Hazard	No
Sudden Release of Pressure Hazard	No
TSCA STATUS:	Not Regulated

OTHER FEDERAL REGULATIONS:

SAFE DRINKING WATER ACT (SDWA):	Not Regulated
FOOD & DRUG ADMINISTRATION (FDA):	Not Regulated

CALIFORNIA PROPOSITION 65: This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute. **WARNING:** This product (when used in aqueous formulations with a chemical oxidizer such as ozone) may react to form calcium bromate, a chemical known to the State of California to cause cancer.

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.

CANADA REGULATIONS

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

16. OTHER INFORMATION:

Information contained on these sheets needs to be made available to your workers according to the OSHA Hazard Communication Standard 29CFR 1910.1200 and the Workplace Hazardous Materials Information System (WHMIS).

This Safety Data Sheet and the information it contains is offered to you in good faith as accurate, but there is no representation, guarantee or warranty, either expressed or implied, regarding its accuracy, reliability or completeness. This information relates to the specific product designated and may not be valid for such product used in combination with any other materials or in any other processes. 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 and to satisfy themselves as to the suitability and completeness of such information for their own particular use. Consult with appropriate experts to guard against hazards associated with the use of this product and its ingredients. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

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.

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