# SAFETY DATA SHEET

# ROAD CREW™ SERIOUS ICE MELTING CRYSTALS - BLEND

SDS NO.: KC002 Rev Date: 10-01-2021 Rev. Num. 01

# 1. IDENTIFICATION:

COMPANY NAME: Knight Chemicals LLC ADDRESS: 7940 N. 81<sup>st</sup> Street

Milwaukee, WI 53223

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: Road Crew™ Serious Ice Melting Crystals / Ice Melting

# 2. HAZARD(S) IDENTIFICATION:

NFPA Hazard Rating (HMIS / NFPA): (Scale 0-4)

HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0 PERSONAL PROTECTION: B

# **EMERGENCY OVERVIEW:**

APPEARANCE: White crystalline or granulated solid

ODOR: None

REACTIVITY: Reacts with water to create heat (calcium chloride)

PRIMARY ROUTE OF ENTRY: Skin Contact

#### **POTENTIAL HEALTH EFFECTS:**

**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 the skin in harmful amounts. The LD50 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 in 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 ORGAN) EFFECTS:** Results of in vitro mutagenicity tests have been negative for Calcium Chloride. IARC, NTP or OSHA does not list the components of this product as carcinogens for hazard communication purposes.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS:

**PRODUCT TRADE NAME:** Road Crew™ Serious Ice Melting Crystals

CHEMICAL NAME: Blended Deicer SYNONYMS: Blended Deicer CHEMICAL FAMILY: Inorganic Salt CAS NUMBER: None – Mixture

<u>CHEMICAL</u>	<u>Wt %</u>	CAS No.	TLV (ACGIH)	PEL (OSHA)
Sodium Chloride	> 80	007647-14-5	None Esta	blished
Calcium Chloride	< 10	010043-52-4	None Estal	blished
Potassium Chloride	< 10	007447-40-7	None Estal	blished
Magnesium Chloride	< 10	007786-30-3	None Estal	blished

#### 4. FIRST AID MEASURES

**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.

### 5. FIRE-FIGHTING MEASURES:

FIRE & EXPLOSION HAZARD: Negligible fire hazard when exposed to heat or flame.

**EXTINGUISING 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.

Hazardous Combustion Products: Thermal decomposition products may include toxic and corrosive fumes of chlorine and hydrogen chloride. Product generates heat upon additions of water, with possible spattering. Product may react with some metals (Aluminum, Zinc, Tin, etc.) to release flammable hydrogen gas.

# **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. 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.

# 7. HANDLING & STORAGE

Comply with federal, state, and local laws, regulations and procedures when storing this product. Store in a tightly closed container. Store away from incompatible materials. Do not store in attic, upper floors or any area where leaking of contents could cause damage.

**SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**: Avoid eye and prolonged skin contact. 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.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

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

**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 operations 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.

#### 9. PHYSICAL & CHEMICAL PROPERTIES:

**MELTING POINT:** Approximately 1423° F (773° C)

**BOILING POINT:** 2732° F (1500° C)

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:

FLASH POINT:

METHOD USED:

Not applicable

Not applicable

FLAMMABLE LIMITS:

LFL Not applicable
UFL Not applicable
AUTOIGNITION TEMPERATURE: Not applicable

## 10. STABILITY & REACTIVITY:

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

**INCOMPATIBILITY:** (Specific Materials to Avoid) Calcium chloride, sodium chloride and magnesium 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.).

HAZARDOUS DECOMPOSITION PRODUCTS: Not Applicable.

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 / m<sup>3</sup>, 60 m.

CALCIUM CHLORIDE: (CAS# 000043-52-4)

Acute toxicity, LD50, Dermal, Rabbit, 5000 mg / kg.

MAGNESIUM CHLORIDE: (CAS# 007786-30-3)
Acute toxicity, LD50, Oral, Rat, 8100 mg / kg.

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

CARCINOGEN STATUS: None.

**LOCAL EFFECTS:** Eye, mucous membrane and skin irritant.

**ACUTE TOXICITY LEVEL:** Moderate toxic by ingestion, lightly toxic by dermal absorption.

#### 12. ECOLOGICAL INFORMATION:

**DEGRADABILITY:** Product will not biodegrade or bioaccumulate.

#### 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.)

### **OSHA Hazard Communication Standard:**

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

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 Yes Delayed (Chronic) Health Hazard No Fire Hazard No Reactivity Hazard No Sudden Release of Pressure Hazard No TSCA STATUS: Yes **DSL STATUS:** Yes **EINECS STATUS:** Yes OTHER TSCA ISSUES: None

SARA 311 CLASSIFICATION: Acute Hazard

Reactivity Hazard

<u>CALIFORNIA PROPOSITION 65</u>: 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

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.

### **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.

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