



SAFETY DATA SHEET

1. IDENTIFICATION

Product Identifier	ORGANIC BASED CALCIUM CHLORIDE DEICER
Other means of identification:	Liquid Deicer
SDS Number:	18-014
Synonyms:	BEET HEET CONCENTRATE, BEET HEET MODERATE, BEET HEET SEVERE, BEET HEET SUPER SEVERE, BEET HEET TYPICAL, BEET HEET HOT SAND FORMULA
Recommended Uses:	ANTI-ICING AND DEICING ROAD SURFACES
Recommended Restrictions:	NONE
Manufacturer/Distributor:	K-TECH SPECIALTY COATINGS, INC. (INDIANA)
Address:	111 West Garfield St. (P.O. Box 428) Ashley, IN. 46705
Phone Number:	260-587-3888
Fax Number:	260-587-3889
General Information:	260-587-3888
24 hr Emergency Assistance:	1-574-383-7061

2. HAZARD(S) IDENTIFICATION

GHS Classification(s):	Eye Corrosion/Irritation Category 2B-Mild Irritant Skin Corrosion/Irritation Category 3-Mild Irritant
GHS Label Elements:	
Symbol:	NONE
Signal Word:	WARNING
Hazard Statement:	Causes eye irritation. Causes mild skin irritation.

Precautionary Statement:

Prevention: Avoid getting product in eyes by thoroughly washing any exposed skin that may have come in contact with product while handling.
Wear eye/face protection.
Wash any exposed skin that may have come in contact with product after handling.
Wear protective gloves/clothing.

Response: IF IN EYES: Rinse with water for several minutes. Remove contact lenses if present and continue flushing.
IF EYE IRRITATION PERSISTS: Get medical advice/attention.
IF SKIN IRRITATION OR RASH OCCURS: Get medical advice/attention.

Storage: No specific requirements related to storage.
Product carried over from previous season should be recirculated prior to the start of a new winter maintenance season.

Disposal: No specific requirements related to Disposal.

3. COMPOSITION/INGREDIENT DISCLOSURE		
COMPONENTS:		
Chemical Identity:	CAS Number	%
Calcium Chloride:	10043-52-4	Proprietary
Agricultural Based Organic:	68476-78-8	Proprietary
Sodium Chloride:	7647-14-5	Proprietary
Magnesium Chloride:	7786-30-3	Proprietary
Potassium Chloride:	7447-40-7	Proprietary

4. FIRST AID MEASURES

Eye: Flush with water for 15 minutes. If irritation persist, seek medical attention.

Skin: Wash with soap and water.

Ingestion: If only a small quantity has been ingested, DO NOT induce vomiting. Rinse mouth with water and drink 1 or 2 glasses of water. Seek medical attention if victim feels unwell. If a large amount has been ingested, DO NOT induce vomiting and call a poison center or physician immediately.

Inhalation: If irritation occurs from inhalation overexposure, move victim to fresh air and seek medical attention if victim feels unwell.

First Aid Facilities: Eye wash facilities and safety showers are recommended.

5. FIREFIGHTING MEASURES

Flash Point: N/A

Boiling Point: >200°F

Lower Explosive Limit: N/A

Upper Explosive Limit: N/A

Suitable Extinguishing Media: Product is a stable, non-combustible liquid that unlikely to burn. Use extinguishing agent to put out surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

No special precautions. Contain spills to prevent contamination of water supply or sanitary sewer system. Dispose of according to local requirements.

7. HANDLING AND STORAGE

Handling And Storage Precautions: Practice reasonable care and caution.

Conditions for safe storage, including any incompatibilities.

No additional precautions required.

Work/Hygienic Practices: Skin contact and the breathing of mists, fumes, or vapors should be reduced to a minimum to avoid any ill effects. Wash exposed skin to avoid dermatitis. Consider the use of lanolin skin treatments before handling or working around deicing mixtures.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Occupational Exposure Limits

US.OSHA Table Z-2 (29 CFR 1910.1000)

Components	OSHA	ACGIH	NIOSH
Calcium Chloride (CAS 10043-52-4)	PEL- Not established for this material.	TLV, BEI- Not established for this material.	Exposure limits not established for this material
Agricultural Based Organic (CAS 68476-78-8)	PEL- Not established for this material.	TLV, BEI- Not established for this material.	Exposure limits not established for this material
Sodium Chloride (CAS 7647-14-5)	PEL- Not established for this material.	TWA, STEL- Not established for this material	Exposure limits not established for this material
Magnesium Chloride (CAS 7786-30-3)	PEL- Not established for this material.	TLV, BEI- Not established for this material.	Exposure limits not established for this material
Potassium Chloride (CAS 7440-09-7)	PEL- Not established for this material.	TWA, STEL- Not established for this material	Exposure limits not established for this material
0	#N/A	#N/A	#N/A

PERSONAL PROTECTION MEASURES

Eye/Face Protection: Safety goggles or chemical splash goggles.

Skin Protection: Oil impervious gloves, such as Neoprene or PVC, if frequent or prolonged contact is expected.

Respiratory Protection:	Respiratory protection is not normally required under normal conditions and adequate ventilation. If high vapors are expected, use respirator approved for organic vapors. Observe respirator protection factor criteria cited in ANSI Z88.2 (1980) and other OSHA requirements found in 29 CFR 1910.134.
Other/General Protection:	Wear body covering clothes to avoid prolonged or repeated exposure. Launder before reuse.
ENGINEERING CONTROLS:	As required

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Dark Brown Liquid
PHYSICAL STATE:	Liquid Mixture
ODOR:	Odor similar to chocolate, coffee, molasses or syrup.
ODOR THRESHOLD:	N/A
PH:	pH Factor: 6-8
FREEZE POINT:	-23.8 °F to -10°F
BOILING POINT/RANGE:	Boiling Point: 212 °F
FLASH POINT:	N/A
EVAPORATION RATE:	Not tested by manufacturer.
FLAMMABILITY (SOLID, GAS):	N/A
UPPER/LOWER FLAMMABILITY/EXPLOSIVE LIMITS:	N/A
VAPOR PRESSURE:	N/A
VAPOR DENSITY:	N/A
RELATIVE DENSITY:	1.20-1.30
SOLUBILITY WITH WATER:	Complete
PARTITION COEFFICIENT'S- OCTANE/WATER:	N/A
AUTO-IGNITION TEMPERATURE:	N/A
DECOMPOSITION TEMPERATURE:	Not tested by manufacturer.
SPECIFIC GRAVITY:	1.20-1.30

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:	This Product is stable at ambient temperatures.
POSSIBILITY OF HAZARDOUS REACTIONS:	Low
CONDITIONS TO AVOID:	Avoid extreme temperatures
INCOMPATIBLE MATERIALS:	Slightly corrosive to metals.
HAZARDOUS DECOMPOSITION PRODUCTS:	Avoid contact with strong acids.

11. TOXICOLOGICAL INFORMATION

Routes of Possible Exposure

Ingestion:	<ul style="list-style-type: none">• Breathing of mists, fumes, or vapors should be reduced to a minimum to avoid any ill effects.
Inhalation:	<ul style="list-style-type: none">• Chronic health effects would not be expected as long as good hygiene and proper safety precautions are practiced and exposures are less than the TLVs/RELs.
Skin Contact:	<ul style="list-style-type: none">• After using material or being around fumes, wash exposed skin with soap and water.
Eye Contact:	<ul style="list-style-type: none">• Chronic human health effects would not be expected as long as good personal hygiene and proper safety precautions are practiced.

Symptoms - Physical, Chemical, Toxicological Characteristics

Information on Toxicological Effects: Under normal working conditions, negative health effects would not be expected. With extended exposure to bare skin, product may cause drying/cracking of exposed skin. Wash exposed skin and apply moisturizing cream or ointment.

Numerical Measures of Toxicity:	EPA Method 1000.0, N.O.E.C.-0.03g/L
	EPA Method 1000.0, L.O.E.C.-0.25g/L
	EPA method 1000.0, IC50-0.10 gm/l
	EPA Method 1002.0, N.O.E.C.-1.0 g/L
	EPA Method 1002.0, L.O.E.C.-3.0 g/L
	EPA Method 1002.0, IC50-2.4602 gm/l
	EPA Method 1003.0, N.O.E.C.-0.03g/L

EPA Method 1003.0, L.O.E.C.-0.25g/L

EPA Method 1003.0, IC50>3.0 gm/l

12. ECOLOGICAL INFORMATION

Ecotoxicity-Aquatic & Terrestrial: Not listed as a marine pollutant on HMT 172.101

Persistence & Degradability: Readily Bio-degradable in 8 days. 99% Bio-degradable in 28 days.

Bio-accumulative Potential: Not significant

Mobility In Soil: No testing has been performed by the manufacturer.

Other Adverse Effects: N/A

13. DISPOSAL CONSIDERATIONS

Check local, state and federal requirements for disposal of large amounts of waste or contaminated soil.

RCRA Information: This material, if discarded as produced, is not a RCRA "listed" hazardous waste. Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. It is the responsibility of the generator to fully characterize for toxicity and other RCRA parameters prior to disposal (40 CFR 261). Along with properly characterizing all waste materials, consult state and local regulations regarding proper disposal of this material.

14. TRANSPORT INFORMATION

UN Number: This product as produced and shipped is not considered a hazardous material by the U.S. Department of Transportation.

Proper Shipping Name: NOT LISTED

Hazardous Classification: NON-REGULATED

Packing Group: NON-REGULATED

Environmental Hazards: N/A

Transport in Bulk: N/A

Special Provisions: N/A

Special Precautions: N/A

Packaging Exceptions: N/A
Packaging Non-Bulk: N/A

15. REGULATORY INFORMATION

U.S. Regulatory Information: Toxic Substances Control Act: This product is not listed on the US TSCA Chemical Inventory Section 8(b).
Clean Water Act: Organic based, chloride salt deicers are not considered hazardous if released into navigable waters.
OSHA Hazard Communication: See individual state requirements for Right-To-Know lists.

SARA Hazard Classes: NONE
NONE

NFPA RATING: HEALTH: 1
FLAMABILITY: 0
REACTIVITY: 0

16. OTHER INFORMATION

Read this MSDS before use or disposal of this product. Pass along the information to employees and any other persons who could potentially be exposed to the product to be sure that they are aware of the information before use or other exposure.

This material safety data sheet and the information herein is offered in good faith as accurate. The information has been compiled from sources considered to be reliable and accurate to the best of our knowledge, but is not guaranteed to be so. Health and safety precautions in this data sheet may not be adequate for all individuals under all circumstances. It is the users obligation to evaluate and use this product safely and to comply with all applicable laws and regulations whether they be federal, state, or local. No warranty is made, either expressed or implied through the issuance of this MSDS.

SDS PREPARED: 5/28/2015
REVISION DATE: 7/11/2019