



SAFETY DATA SHEET

1. IDENTIFICATION

Product Identifier	ORGANIC BASED CALCIUM CHLORIDE DEICER
Other means of identification:	LIQUID DEICER
SDS Number:	15-014
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 DE ICING ROAD SURFACES
Recommended Restrictions	NONE
Manufacturer/Importer/Supplier/ Distributor	K-TECH SPECIALTY COATINGS
Address	111 West Garfield St. Ashley, IN. 46705 Office: 260-587-3888 Fax: 260-587-3889
General Information	Office: 260-587-3888
24 hr Emergency Assistance	1-574-383-7061

2. HAZARD(S) IDENTIFICATION

GHS Classification(s)	Skin corrosion/irritation Category 3 Serious eye damage/eye irritation Category 2B Long-term hazards to the aquatic environment Category 3
-----------------------	--

Label Elements

Signal Word	WARNING
Pictogram:	No Pictograms applicable
Hazard Statement	Causes mild skin irritation. Causes eye irritation. Harmful to aquatic life with long lasting effects.

Precautionary Statement

Prevention

Wash any exposed skin that may have come in contact with product thoroughly after handling.
To avoid getting product in eyes, wash any exposed skin that may have come in contact with product thoroughly after handling.
Avoid release to the environment.

Response

IF SKIN IRRITATION OCCURS: Wash any exposed skin that may have been in contact with product thoroughly.
IF IN EYES: Gently flush immediately with cold water for 15 minutes. Do not attempt to remove solidified material from the eye, as this may further injury. Take the victim to obtain medical assistance.
IF SKIN IRRITATION OR RASH OCCURS: Get medical advice/attention.
IF EYE IRRITATION OCCURS: Get medical advice/attention.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with relevant regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS:

Chemical Identity	CAS Number	%
Agricultural Based Organic	68476-78-8	Proprietary
Calcium Chloride	10043-52-4	Proprietary
Magnesium Chloride	7786-30-3	Proprietary
Sodium Chloride	7647-14-5	Proprietary
Potassium Chloride	7447-40-7	Proprietary
Water	7732-18-5	Proprietary

4. FIRST AID MEASURES

Eye	Gently flush immediately with cold water for 15 minutes. Do not attempt to remove solidified material from the eye, as this may further injury. Take the victim to obtain medical assistance.
Skin	Wash with plenty of water.
Ingestion	Ingestion is not likely. If large amounts are swallowed, do not induce vomiting and immediately call a physician. If only a small quantity has been ingested, dilute with 1 to 2 glasses of water and DO NOT induce vomiting. Seek medical attention.
Inhalation	If irritation occurs from inhalation overexposure, immediately remove victim from source to fresh air and seek medical attention
First Aid Facilities:	Eye wash facilities and safety showers are recommended.

5. FIREFIGHTING MEASURES

Flash Point: N.A. °F

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. Sweep up and return to container. 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. Thoroughly wash exposed skin areas after work 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
Agricultural Based Organic (CAS 68476-78-8)	PEL- Not established for this material.	TWA, STEL- Not established for this material	Exposure limits not established for this material
Calcium Chloride (CAS 10043-52-4)	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.	-	-
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
Potassium Chloride	PEL- Not established for this material.	-	-
Water	PEL- Not established for this material.	TWA, STEL- Not established for this material	Exposure limits not established for this material

PERSONAL PROTECTION MEASURES

Eye/Face Protection

Safety goggles or chemical splash goggles if splashing is anticipated.

Skin Protection

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

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION CONTINUED

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:	-Reddish-Brown Liquid
PHYSICAL STATE:	Liquid Mixture
ODOR:	-Slightly Sweet/Chocolate or Syrupy Odor
ODOR THRESHOLD:	N/A
PH:	pH Factor: 6-8
FREEZE POINT:	-23.0 °F to -10°F
BOILING POINT/RANGE	Boiling Point: 212 °F

9. PHYSICAL AND CHEMICAL PROPERTIES-Continued

FLASH POINT	N/A
EVAPORATION RATE	Not tested by manufacturer
FLAMMABILITY(SOLID, GAS)	N/A
UPPER/LOWER FLAMMABILITY/EXPLOSIVE LIMITS	N/A
VAPOR PRESSURE	Not tested by manufacturer
VAPOR DENSITY	Not tested by manufacturer
RELATIVE DENSITY	Not tested by manufacturer
SOLUBILITY WITH WATER	Solubility : Completely
PARTITION COEFFICIENT'S- OCTANE/WATER	Not tested by manufacturer
AUTO-IGNITION TEMPERATURE	N/A
DECOMPOSITION TEMPERATURE	Not tested by manufacturer
SPECIFIC GRAVITY:	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

Information on likely routes of 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 areas thoroughly with soap and water. Showering immediately after work is a good personal hygiene practice. |
| 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 related to the physical, chemical and 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 areas thoroughly 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 and Terrestrial: Not listed as a marine pollutant on HMT 172.101

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

Bioaccumulative 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

-Acute Health Hazard

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: 10/28/2016