SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	Entry	
SYNONYMS:	Deicing Fluid, Anti-icing Fluid.	
PRODUCT CODES:	I000144	
MANUFACTURED FOR:	Branch Creek Organics, LLC	
CORPORATE ADDRESS:	PO Box 523 Harleysville, PA 19438	
PHONE:	888-408-5433	
EMERGENCY PHONE:	United States:	Chemtrec: 800-424-9300 (CCN# 15189)
	Canada:	CANUTEC: 613-996-6666 I TECH 877-324-4402
CHEMICAL NAME:	Potassium Formate	
CHEMICAL FAMILY:	Organic acid, potassium salt	
CHEMICAL FORMULA:	HCOOK	
PRODUCT USE:	Deicing fluid, Anti-icing fluid.	

SECTION 2: HAZARDS IDENTIFICATION

GHS ELEMENTS:

Hazard Classification:	Acute Toxicity – Inhalation (Category 5). Eye Irritation (Category 2B).
Pictogram:	None
Signal Word:	Warning
Hazard Statements:	May be Harmful if swallowed
Precautionary Statements:	Wash skin throughly after handling. Wear protective gloves, clothing, eye and face protection. If swallowed, rinse mouth. Do NOT induce vomiting. If on hair or skin, remove all contaminated clothing and rinse skin with water. If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. If in eyes, rinse carefully with water for several minutes. Remove contact lenses, if able and continue rinsing. Immediately call a poison center or doctor/physician. See First Aid instruction for specific treatment. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.

POTENTIAL HEALTH EFFECTS

EYES:	May cause irritation.
SKIN:	May cause irritation.
INGESTION:	May cause irritation.
INHALATION:	May cause irritation.

ACUTE HEALTH HAZARDS: Possible skin and eye irritation.

CHRONIC HEALTH HAZARDS: None known.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

CARCINOGENICITY:

OSHA:	No
ACGIH:	No
NTP:	No
IARC:	No
CA Prop 65:	No

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT:			CAS No.
	Potassium Formate	45%-54%	590-29-4
	Water	40%-49%	7732-18-5
	Adjuvant Blend	Proprietary	Proprietary

*The exact concentration is being withheld as a trade secret.

SARA 313 REPORTABLE: N/A

OSHA PEL-TWA:	N/A
OSHA PEL STEL:	N/A
OSHA PEL CEILING:	N/A
ACGIH TLV-TWA:	N/A
ACGIH TLV STEL:	N/A
ACGIH TLV CEILING:	N/A

SECTION 4: FIRST AID MEASURES

EYES: Flush with water immediately and thoroughly for 15 minutes. If irritation persists, seek medical attention.

SKIN: Thoroughly wash with soap and water. If irritation persists, seek medical attention.

INGESTION: Call a physician immediately. Do not induce vomiting without medical advice.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. Seek medical attention.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR: Not flammable.

FLASH POINT:

F°:	>212
C°:	>100

METHOD USED: Closed cup.

AUTOIGNITION TEMPERATURE:

F°:	>750
C°:	>400

THERMAL DECOMPOSITION: >360°C

NFPA HAZARD CLASSIFICATION

HEALTH:	1
FLAMMABILITY :	0
REACTIVITY:	0
OTHER:	0

HMIS HAZARD CLASSIFICATION

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

EXTINGUISHING MEDIA:	Water or media suitable for surrounding material.
SPECIAL FIRE FIGHTING PROCEDURES:	Proper safety equipment to include SCBA operated in positive pressure mode.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Carbon monoxide and/or carbon dioxide may be released.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide and/or carbon dioxide.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:	Confine the spill to a diked area or sump, if possible, and recover as much of the product as possible. Place in suitable containers. Dispose in accordance with all federal, state, and local regulations.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE:	Store in suitable containers made of mild steel, stainless steel, plastic or fiberglass.
OTHER PRECAUTIONS:	Always use good safety and industrial hygienic practices.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:	Good hygienic operating protocols are always recommended.
VENTILATION:	Provide local ventilation as necessary.
RESPIRATORY PROTECTION:	If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure limits are not known wear approved respiratory protection.
EYE PROTECTION:	Safety goggles.
SKIN PROTECTION:	Protective gloves.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT:	N/A
WORK HYGIENIC PRACTICES:	Wash hands thoroughly after handling.
EXPOSURE GUIDELINES:	N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear.
ODOR:	Mild odor.

ODOR THRESHOLD:	No data available.
PHYSICAL STATE:	Liquid.
pH AS SUPPLIED:	7.3 - 7.8
MELTING POINT:	Unknown
FREEZING POINT:	-63 °F, -53 C°
BOILING POINT:	Unknown
FLASH POINT:	>212°F, >100°C
METHOD USED:	Tagged Closed Cup
EVAPORATION RATE:	N/A
FLAMMABLE LIMITS IN AIR:	Not flammable.
VAPOR PRESSURE (mmHg):	No data available.
VAPOR DENSITY (AIR = 1):	No data available.
SPECIFIC GRAVITY (20^{O}C):	1.33
DENSITY (20^{O}C):	11.1 lb/gallon (1.33 kg/L)
SOLUBILITY IN WATER:	Complete
PARTITION COEFFICIENT:	n-octanol/water – N/A
PERCENT SOLIDS BY WEIGHT:	50%
PERCENT VOLATILE:	50%
VOLATILE ORGANIC COMPOUNDS (VOC):	None
AUTOIGNITION TEMPERATURE:	N/A
THERMAL DECOMPOSITION:	N/A
VISCOSITY:	9.6 cPs @20°C

SECTION 10: STABILITY AND REACTIVITY

	STABLE	UNSTABLE
STABILITY:	x	

CONDITIONS TO AVOID (STABILITY):	Extreme heat.
INCOMPATIBILITY (MATERIAL TO AVOID):	Strong acids or strong oxidizing agents.
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:	Carbon monoxide and/or carbon dioxide.
HAZARDOUS POLYMERIZATION:	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATIO N

TOXICOLOGICAL INFORMATION: Potassium Formate (CAS# 590-29-4)

LD50 (Oral, mouse): 11,000 mg/kg
LD50 (Oral, rat) : >2000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: BOD: 0.02 kg oz/kg
COD: 0.09 kg oz/kg

Use of material as a de-icer or anti-icing agent requires due diligence. Avoid over application and accidental releases or spills.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Reclaim and reuse as much as possible. Dispose in accordance with all federal, state, and local regulations.

RCRA HAZARD CLASS: No.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION:

GROUND TRANSPORTATION: Not regulated for transport

WATER TRANSPORTATION (IMDG): Not regulated for transport

AIR TRANSPORTATION (IATA): Not regulated for transport

SECTION 15: REGULATORY INFORMATION

CHEMICAL INVENTORY LISTS:

TSCA (U.S. Toxic Substances Control Act):	Yes
TSCA Section 12(b):	No
DSL (Canadian Domestic Substances List):	Yes
EINCS (European Inventory of Existing Commercial Chemical Substances):	Yes
AICS (Australia):	Yes
IECSC (China):	Yes
ENCJ (Japan):	Yes

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): No

CLEAN AIR ACT (CAA): Contains no priority air pollutants.

CLEAN WATER ACT (CWA): Contains no priority water pollutants.

SECTION 16: OTHER INFORMATION

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