



entry
CHLORIDE FREE

Resource Guide

Improve Your Track Record



Our Brands



entry
CHLORIDE FREE

α PLHA MELT™



MAGNIFY™
SALT BRINE ENHANCEMENT

RESPONSE™



**SECURE
WINTER
PRODUCTS**



Letter from the CEO

Thank you for your interest in learning more about our Entry product. As a company we take great pride in solving our customer's problems and Entry is no exception to that standard. When we began formulating Entry our objective was to develop a highly effective ice melt product that would eliminate the environmental issues associated with chlorides as well as the interior custodial issues caused by granular tracking.

Entry's proprietary formulation is 100% made in the USA and is derived from inhibited Potassium Formate. Entry works by breaking the hydrogen bridges that are formed when water freezes. Additionally, it lowers the freezing point of water to an extraordinarily low refreeze temperature of -63 degrees Fahrenheit (-53 C). The low refreeze temperature makes Entry an excellent product to use in order to prevent refreeze and prevent black ice formation.

In an effort to reverse the course of excess chloride use we have formulated Entry to be 100% free of any form of chloride or Urea. We have specifically designed Entry to be used within the first 15 feet from the building entrance. This 15 foot area that we refer to as the DMZ is significant for several reasons.

* The DMZ is where the highest concentration of chlorides are currently being used compared to all other areas on the property. Additionally, the majority of run off from these areas closest to the building are typically flowing directly into storm sewer controls that lead to our waterways. There is nothing to buffer the chloride run off. The result is a direct and highly concentrated shot into our watersheds.

* Beyond the environmental issues chlorides also create problems with corroding metals, killing turf and ornamentals as well as causing health problems to our pets. It should come as no surprise that the fifteen foot DMZ is where we find the highest concentration of metals, plants and pet traffic.

* The DMZ is where over 95% of granular ice melt tracking coming into our buildings is originating from. When Entry is utilized in the DMZ we can virtually eliminate granular tracking. Entry is formulated to a neutral pH so any tracking that results will be similar to what would be expected from a September rainfall not a February snow storm.

* Entry is very cost effective when used within the DMZ. A typical application on a four foot wide service walk is \$1.35.

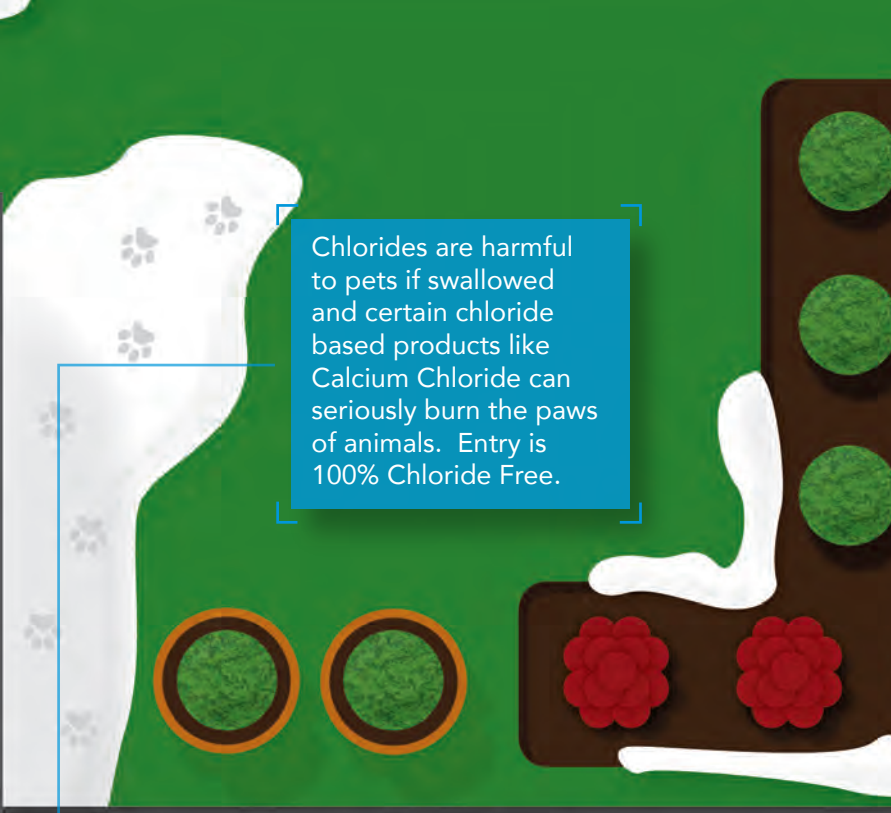
Our company is about solving problems not accepting payment for products that fail to meet people's expectations, so if you are not satisfied with Entry's performance for any reason we will gladly refund the full purchase price on your first case. On behalf of all my co-workers and fellow solution seekers at Secure Winter Products I invite you to take a positive step towards chloride reduction and allow Entry to save your custodial services team from the headaches of granular tracking.

Sincerely,

Nate Clemmer
CEO




**SECURE
WINTER
PRODUCTS**



Chlorides are harmful to pets if swallowed and certain chloride based products like Calcium Chloride can seriously burn the paws of animals. Entry is 100% Chloride Free.



DMZ



Chlorides and Urea in our waterways reduces the available oxygen levels and can lead to the death of fish and aquatic plants. Entry is 100% Chloride and Urea Free.



Chlorides will dehydrate turf and ornamentals and cause desiccation. Entry is 100% Chloride Free.

Chlorides are corrosive to metals and will reduce the functional life of structures such as railings and doors. Entry is 100% Chloride Free.

95% of granular ice melt tracking occurs within the first 15 feet of the building entrance. Entry's proprietary neutral pH formulation is designed to eliminate tracking.

15'



Post-storm Application

Application Recommendations

Prior to Application



Mechanically remove any accumulated snow or ice.

Not Recommended for the following conditions:

- Wet snow (slush)
- To melt through heavily compacted snow or ice
- Blowing snow/blizzard conditions



Following Application



Apply Entry using a fan spray at a rate of 3/4 gallon per thousand.

Increase rate to 1 Gallon per thousand if temperatures are below 0°F (-17.8°C)

Allow 1 to 2 minutes for Entry to work. An additional application may be necessary depending on the amount of residual snow or ice needing to be melted.





What to Expect

Prior to Application



Mechanically remove any accumulated snow or ice.

Please note increased snow accumulation in highlighted areas.

Following Application



Allow 1 to 2 minutes for entry to work.

When applying avoid trying to "Pressure Wash" the snow. Apply at recommended rate to avoid unnecessary application costs.

Spot Treat any areas that were not melted or mechanically remove.

Benefits of Entry as a Post-Treatment

- ▶ Immediate melting.
- ▶ Elimination of granular tracking.
- ▶ Elimination of chloride residue tracking.
- ▶ Non-chloride formulation is safer for environment, pets, metals and plants.
- ▶ Advanced protection against refreeze and black ice.

Designed for the Environment




The Safer Choice

Entry is chloride-free and urea-free, melting snow and ice without harming the environment. No contaminated drinking water. No toxic runoff. No oxygen cutoff for fish and aquatic plants. Entry is safe for you and the planet.

Oxygen Demand Ratio

Oxygen demand represents the amount of oxygen needed to bio-degrade various types of non-chloride based ice melt products.

Deicing Agents	Oxygen Demand
	●●
Potassium Acetate	●●●●
Calcium Magnesium Acetate (CMA)	●●●●●
Glycerol	●●●●●●●
Propylene Glycol	●●●●●●●●
Urea	●●●●●●●●





Toxicity

Salt and Chloride Free

Safe for Pets



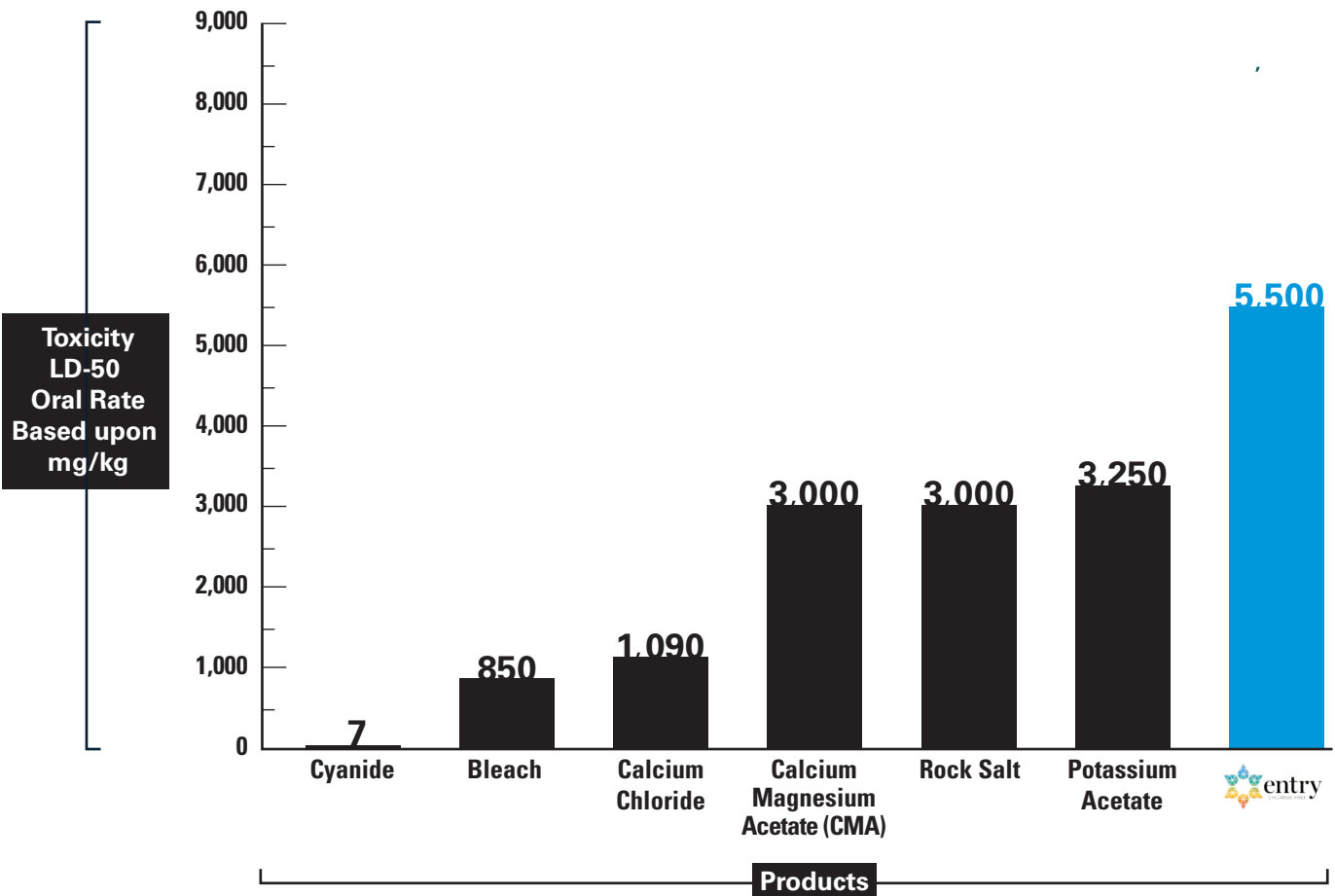
Safe for Lawn and Landscaping



Safe for Metals



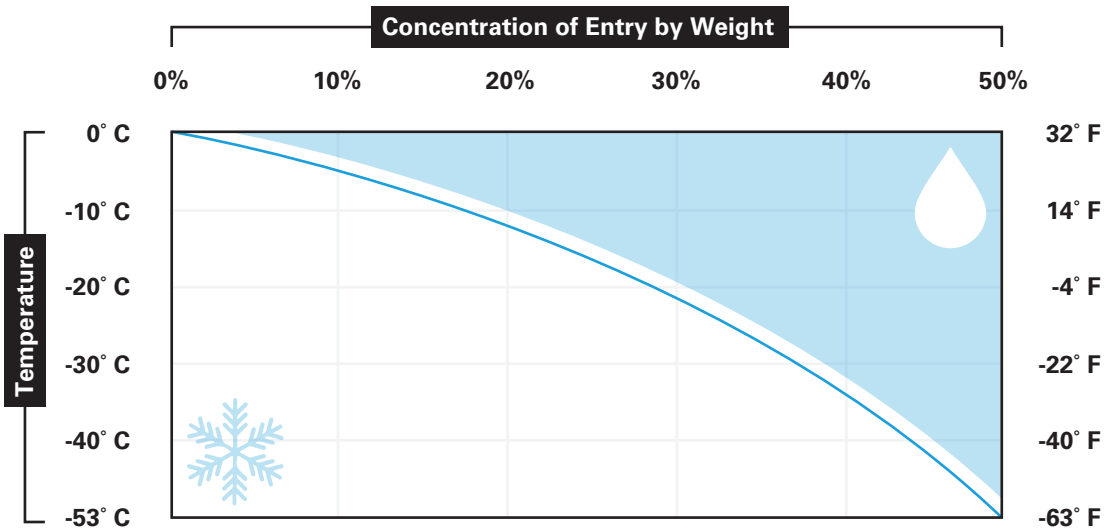
Toxicity Comparison Chart



Product Attributes

The Stats

Freeze Curve



Product Attributes

Product Attributes	Entry
Percentage Chlorides	0%
Percentage Urea	0%
pH	7.3 - 7.8
Freezing Point	-63°F/-53°C
Effective Temperature	-30° F/-34° C
Appearance	Clear
Specific Gravity at 68° F (20° C)	1.34
Density (Pounds/Gallon) at 68° F (20° C)	11.2
Recommended Standard Application Rate (per 1,000 sq. ft.)	3/4 Gallon

*A number of conditions can affect product performance including surface area, surface temperature, surface grade, air temperature, application timing and rate.



Do the Math

Coverage and Pricing

Case (2 x 2.5 Gallons)



\$165.00

Cost per DMZ application	\$1.35
Cost per 1,000 sq. ft.	\$22.00
DMZ applications per unit of measure	125
Coverage	7,500 sq. ft.

Drum (55 Gallons)



\$1,375.00

*Does Not Include Drum Pump

Cost per DMZ application	\$1.00
Cost per 1,000 sq. ft.	\$16.70
DMZ applications per unit of measure	1,375
Coverage	83,000 sq. ft.

Tote (275 Gallons)



\$6,050.00

*Includes 90° fill extension
*Does not include fill hose

Cost per DMZ application	\$0.88
Cost per 1,000 sq. ft.	\$14.77
DMZ applications per unit of measure	6,875
Coverage	413,000 sq. ft.

Frequently Asked Questions

Do I need to mix Entry with water?

No, Entry is in a ready to use formulation. For best results no further dilution is recommended.

Can I use Entry to melt through layers of snow or ice?

Once there is an accumulation of ice or snow pack Entry will cease to be a cost effective melting alternative. If you need to melt through an existing layer of snow or ice we would recommend Alpha Melt for temperatures down to zero degrees Fahrenheit and Magnesium Chloride Pellets if temperatures are below zero degrees Fahrenheit.

How is Entry made?

Entry is a blend of Potassium Formate and a proprietary adjuvant formulation designed to optimize every spray droplet into a shape that is capable of breaking through the ice lattice. Additionally Entry's proprietary formulation is designed to reduce corrosion, tracking and balance pH.

Can I use Entry as Pre-Treat?

Entry can be used as a Pre-Treat, but since Entry was designed to break through the ice lattice its performance as a Pre-Treat will compare with, but not exceed the performance of other less expensive pre-treatment alternatives. If a non-chloride application or if temperatures were expected to be below 0 degrees F (-18c) then Entry would be a viable pre-treatment alternative.

Will Entry track into my building?

Entry will track similarly to how a rain covered surface would track into a building. Entry is formulated a pH of 7.3 to 7.8 so any tracking that enters the building is at a neutral pH to avoid any issues associated with floor damage caused by high pH chemistries.

Is Entry safe on decorative stone?

You should consult with your installation contractor regarding Entry's safety around decorative stones such as granite or marble.

Can I receive LEED points for Site Management under Version 4?

Entry was designed with LEED version 4 in mind and does not contain any Calcium or Sodium Chloride.

Is Entry safe to use in around structural metals?

The primary issues with de-icing products being used around structural metals is the corrosivity of chlorides on metals. Entry is a 100% non-chloride product. You should consult with your structural engineer to confirm that Entry will be safe for the specific metals associated with a particular parking structure.

Can I over apply Entry?

You cannot over apply Entry, but the most common mistake when using Entry is to apply more product than needed to provide a safe surface. Many users try to, "Pressure Wash" residual snow or ice as opposed to applying the recommended rate and allowing Entry to do the work. The end result will generate a safe surface, but will be more expensive than necessary.

If I increase my application rate will it increase the amount of frozen precipitation that is able to be melted?

Yes, the higher the concentration of Entry on the sidewalk surface compared to the amount of moisture will improve the amount of frozen precipitation capable of being melted and the temperature it is capable of melting at.

Can I use Entry as a post-treat to help prevent against black ice?

Yes, Entry as a post-treatment will be more effective than chloride based products. Entry's refreeze point prior to being diluted by any residual frozen precipitation is -63 Degrees Fahrenheit (-53° C).

Is Entry safe on new concrete?

We do not recommend using Entry on new concrete unless it is approved by your concrete contractor as an approved de-icing product that will not void your warranty. If Entry is not an approved de-icing product we would recommend using a high performance traction product such as Traction Magic.

Is Entry safe on existing concrete?

Entry is a non-chloride liquid that is blended to a neutral pH and as a result is considered functionally safe on concrete that is at least 18 months old if the concrete is properly air-entrained provided the recommended application rates of Entry are followed. The majority of concrete damage is caused by the utilization of deicing products that are not effective to lower temperatures. The result is an increase in the number of freeze and thaw cycles. As a result of Entry's low freezing temperature the quantity of freeze and thaw cycles can be significantly reduced.

Is Entry safe on plants and turf?

Entry is safe on turf and plants if used based upon the recommended rates.

Is Entry safe for pets?

While Entry is safer for pets than the vast majority of de-icing products on the market if pet safety is your number one priority we would recommend Safe Paw.



Label

Application Guidelines (Post-Treat/De-Ice)

- ✳ Mechanically remove as much accumulated snow and ice as possible.
- ✳ Apply Entry at a minimum rate of 3/4 gallon (2.84 Liters) per 1,000 square feet (92.9 square meters).
- ✳ Increase minimum application rate of Entry to 1 gallon (3.79 Liters) per 1,000 square feet (92.9 square meters) if temperatures are below or expected to be below 0 degrees Fahrenheit (-17.78 C).
- ✳ Do not try to melt the snow or ice with Entry. Apply evenly and then allow 1 to 2 minutes for Entry to perform. If necessary spot treat any areas where there is any residual accumulation.
- ✳ Entry is not recommended to melt wet snow (slush) or to melt through ice or compacted snow.

Application Guidelines (Pre-Treat/Anti-Ice)

- ✳ Entry is primarily recommended for use as a post-treat. Entry is only recommended as a pre-treat if temperatures are below 0°F (-18 °C) or if a chloride-free application is required. In the event Entry is used as a pre-treat the following application guidelines should be followed.
- ✳ Entry may be applied up to six hours before frozen precipitation begins falling.
- ✳ Treat the surface area completely to assist in preventing the adhesion and accumulation of snow and ice.
- ✳ Apply at a minimum rate of 3/4 gallon (2.84 liters) per 1,000 square feet (92.9 square meters).
- ✳ Product can be reapplied if frozen precipitation begins to accumulate.

Storage & Handling Instructions

Eyeglasses or goggles are recommended. Protective clothing may be worn but is not generally not required. Entry is ready to use. Further dilution or mixing of other products is not recommended. Keep containers tightly closed and stored in a cool, well-ventilated space.

First Aid

For Eyes: Rinse carefully with water for several minutes. Remove contact lenses if able and continue rinsing. Immediately call poison center or doctor/physician.

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

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

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

Cautions

- ✳ Do not use if temperatures are below -30 degrees Fahrenheit (-34 degrees Celsius).
- ✳ Do not use on concrete poured or pavers installed in the last 18 months unless approved by contractor.
- ✳ Do not use on structural concrete unless approved by engineer or contractor.
- ✳ Do not apply on specialty stone surfaces such as granite and marble unless approved by engineer or contractor.
- ✳ Product has been designed for use in pedestrian and low speed parking lot areas such as drop off zones. Product is not recommended to be used outside of these areas.
- ✳ Do not apply near in-ground lighting. Product may become electrically conductive.
- ✳ A number of conditions can affect product performance including the type of surface area, surface temperature, surface grade, air temperature, application timing and rate. As a result, application guidelines should be carefully reviewed but are made without guaranty, warranty or responsibility of any kind.

Warranty

Seller warrants this material conforms to its description and is reasonably fit for the purpose stated on the label when used in accordance with any directions provided, with proper equipment in good working order and under normal conditions of use. Buyer assumes the risk of any contrary use. Seller makes no other expressed or implied warranty of fitness for a particular purpose, and no agent or seller is authorized to do so except in writing with a specific reference to this warranty. In no event shall seller's liability for any breach of warranty exceed the purchase price of the material as to which a claim is made.

INGREDIENTS

Active Ingredients	CAS No.
Inhibited Potassium Formate	590-29-4
Adjuvant Formulation	Proprietary



Manufactured by:
Secure Winter Products, LLC
P.O. Box 523
Harleysville, PA 19438
267-203-1609



SAFETY DATA SHEET

Name of Product :



Product # : I000144
Revision Date: Nov. 21, 2017

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Entry
SYNONYMS: Deicing Fluid, Anti-icing Fluid.
PRODUCT CODES: I000144

MANUFACTURED FOR: Secure Winter Products, 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 thoroughly 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.

SAFETY DATA SHEET

Product # : I000144

Name of Product :  entry
CHLOROPHENOL

Date: Nov. 21, 2017

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:			<u>CAS No.</u>
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

SAFETY DATA SHEET

Product # : I000144

Name of Product :  entry
CHLOROPYRIFOS

Date: Nov. 21, 2017

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.

SAFETY DATA SHEET

Product # : I000144

Name of Product :  entry
CHLOROPHASE

Date: Nov. 21, 2017

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°C):	1.33
DENSITY (20°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.	

SAFETY DATA SHEET

Product # : I000144

Name of Product :  **entry**
CHEMICALS

Date: Nov. 21, 2017

SECTION 11: TOXICOLOGICAL INFORMATION

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

SAFETY DATA SHEET

Product # : I000144

Name of Product :  **entry**
CHLORIDE FREE

Date: Nov. 21, 2017

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

DISCLAIMER: The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Secure Winter Products, LLC will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.



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