



entry[®]
CHLORIDE FREE

Resource Guide

Improve Your Track Record



Branch Creek | Our Story

Branch Creek founder Nate Clemmer and his family have been in the fertilizer business since 1869, so they know this industry. When Nate and his family moved into a house on the Branch Creek, he struggled to find healthy, effective and affordable products that could be used around his children, dog and water sources. He created Branch Creek—to help bridge the gap that exists between the demand for organic and our ability to supply it.

Branch Creek solutions prioritize our health and planet without added work or sky-high spending. We produce products that are better for the environment while also being higher-performing and lower in cost than traditional products, so you catch a break, and Mother Nature does, too! Branch Creek products have been carefully developed to benefit water, soil, and living things — all while making every day better.

Our brand hopes to inspire others to innovate in the grounds maintenance industry, filling the supply chain with better, bolder and more environmentally-friendly products. As stricter building certifications such as those adopted by the USGBC or Built Green become common place, we believe that this is the future of the business, and our products will be a driver for building performance.

Branch Creek is proud to partner
with this organic pioneer:







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 Free 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.

 **Ally**
entry
Ally G picks up where Entry® leaves off. Ally G is a granular chloride salt that is designed to minimize tracking & is treated with Entry®.

90% 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.

SpotTreat 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



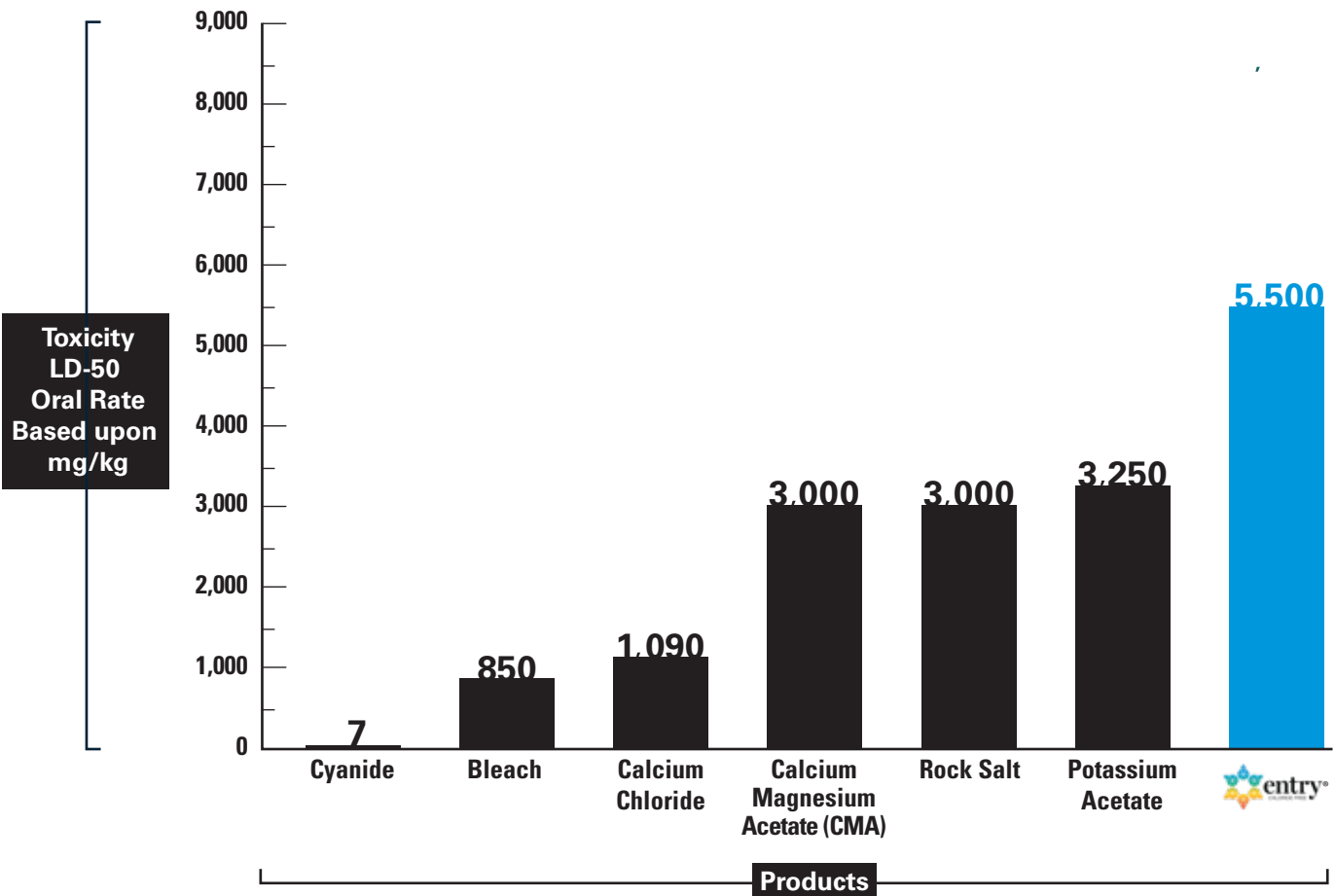
Safe for Lawn and Landscaping



Safe for Metals



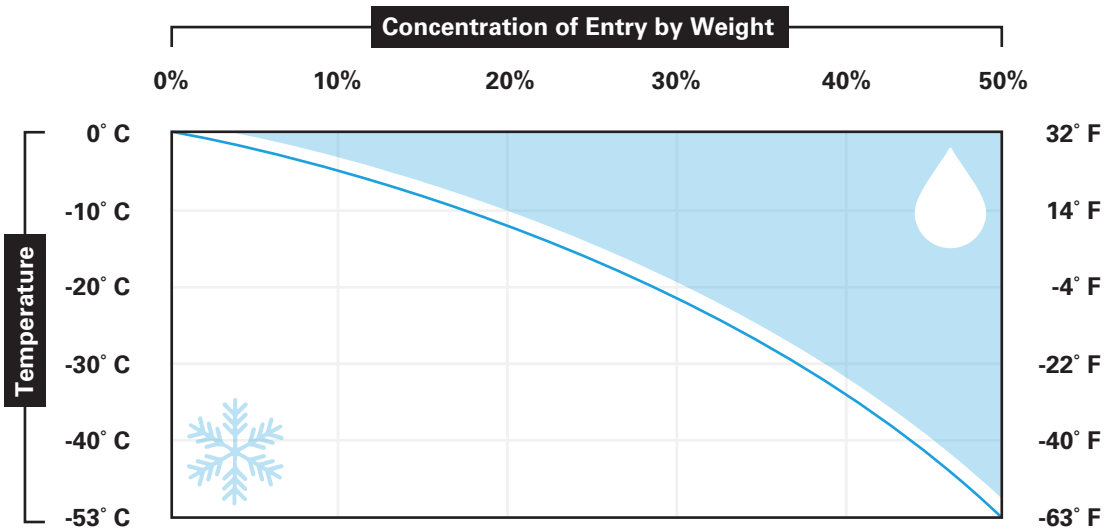
Toxicity Comparison Chart



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.



For Best Results

- ▶ Apply when temperatures are below freezing
- ▶ **DO NOT** apply on ice that is more than 1/8 inch (.31 cm)
- ▶ Remove as much snow and ice as possible before applying Entry
- ▶ **DO NOT** attempt to, "Pressure Wash" residual snow or ice
- ▶ Apply using a vertical fan tip nozzle
- ▶ Apply using a rate of 3/4 gallon (2.84 Liters) per 1,000 square feet (92.95 square meters)
- ▶ **DO NOT** dilute with water



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**	82,500 sq.ft.

▶ Tote (250 Gallons)*



\$5,500.00

*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	6,250
Coverage**	375,000 sq.ft.

* Pricing discounts available based upon the overall size of the order.

** Coverage based upon application by a rotary spreader on a four foot wide service walk.



Branch Creek[®]

Branch Creek[®] Pump Free System

The Branch Creek[®] Pump Free eliminates the need to pump a hand sprayer resulting in a faster and more effective liquid application.

Pump Free replaces the manual pump head on the Entry[®] manual pump sprayer. The Branch Creek[®] Pump Free will provide 1 to 2 hours of battery life.

The Pump Free System includes a 2 gallon sprayer with nozzle configuration to apply Entry[®] at the correct rate and spray pattern.

The Pump Free System also includes a manual pump which can be used as a backup in the event that Pump Free is out of charge.

System Price: \$99.00 (2 or 3 Gallon Sprayer)

Extra Pump Free Head: \$59.00



Commercial Pump Sprayer

Nozzle calibrated for Entry[®] application at recommended rate.



Size: 2 Gallon
Price: \$49.00

Size: 3 Gallon
Price: \$59.00

Residential Pump Sprayer

Ideal for entrances up to 30 Square Feet



Size: 1 Gallon

Price: **\$28.25**

Eco-Pack Lithium Battery Sprayer

Eco-Pack was designed by engineers and developed with a simple goal in mind: Manufacture a dependable, high quality pump sprayer that frees the user from the time consuming task of pumping.

Smart Pressure Technology (SPT) allows for the precise amount of product with every application. Lithium Ion battery provides up to eight hours of life.

Nozzle calibrated for Entry[®] application at recommended rate.



Size: 1.5 Gallon

Price: **\$349.00**

Size: 2.5 Gallon

Price: **\$399.00**

Additional Eco-Pack

- Includes battery and charger
- 8 hours of useful life



Price: **\$269.00**

Branch Creek[®] Walk Behind Sprayer

- Removeable Battery
- 1 to 2 Hours of Battery Life
- Spray Wand
- Minimal Assembly Required



Size: 12 Gallons
Price: \$695.00

FEATURES



Rechargeable Battery

24-volt removable and rechargeable lithium-ion battery provides between 1 to 2 hours of useful life.



Spray Wand

Spray wand is easily removed and replaced to spot treat hard to reach smaller areas such as tops of curb and stairs.



Vented Cap

The vented cap is easily accessible and the extra-wide opening makes filling the sprayer quick and easy.



Drain

Drain at the bottom of the tank is easy to access making it very easy for clean out and to switch between products.

Additional Lithium Battery

- Includes battery and charger
- 24 Volt
- Provides 1 to 2 hours of useful life



Price: \$59.00

Entry[®] Lawn Sign

- 9" x 9" Sign
- Includes 18" Stake



Price: **\$4.00**

Entry[®] A-Frame Sign

- Lightweight
- Easy to setup and remove
- Multiple Sizes Available



Size: **8.5" x 11"**

Price: **\$55.00**

Size: **18" x 24"**

Price: **\$85.00**

Size: **24" x 36"**

Price: **\$120.00**

Nozzle Adapter

Designed to be used with any Pro-Style sprayer to apply Entry[®] at recommended rate.



Price: \$9.00

Green Gorilla[®] Shoulder Strap

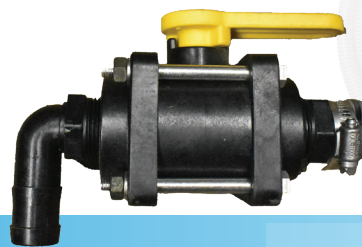
- Padded shoulder strap
- Compatible with Eco-Pack Sprayer
- Compatible with Pump Free Sprayer



Price: \$29.00

Tote Quick Tatch

- Attaches to any Entry[®] 250 gallon tote
- Gravity Feed 12 gallons per minute
- 10 feet of hose
- Shutoff Valve



Size: 1 Gallon

Price: \$120.00

Branch Creek[®] E-Z Pump (55 Gallon)

- Compatible with Entry[®]
- Pumps on the down and up motion
- Transfers 3.5 gallons per minute



Price: \$125.00

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 ¾ 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. In the event Entry is used as a pre-treat the following application guidelines should be followed.
- ✳ Do not use if sleet, freezing rain or ice is in the forecast.
- ✳ 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 ¾ 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:
Branch Creek Organics, LLC
P.O. Box 523
Harleysville, PA 19438
267-203-1609



Ally
— GRANULAR
Powered by **entry™**
CHLORIDE FREE

**POWERED BY ENTRY™ NON-CHLORIDE
MICRO-GRANULE TECHNOLOGY MGT
NATURAL COLORANT**



Keep Winter on the Outside

Micro-Granule Technology

Micro granule technology provides consistent application and enhanced spreadability. Micro granule technology allows for more particle density per bag and more particles per square foot which leads to faster melt down and increased coverage. Micro granule technology provides consistent application and enhanced spreadability. Micro granule technology greatly reduces tracking, interior clean-up of buildings, and will minimize damage to vacuum cleaners.

Natural Colorant & Application Indicator

Ally G has a natural colorant which is non-staining and naturally occurring in the composition of the product. Its natural color eliminates the need for the addition of synthetic de-icing dyes without compromising visual application indicators and safety. Ally G is non-staining to skin, fabrics, and non-porous surfaces. Its natural color provides ample visual awareness without the potential of staining and tracking.

Powered by entry™

Entry™ is a 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 °F (-53 °C). The low refreeze temperature makes Entry™ an excellent product to use in order to prevent refreeze and prevent black ice formation.

Ally G Packaging

- 12 lb shaker jug
- 50 lb bags : 49 bags per pallet : 18 pallets per truckload

Components of Ally G

	Melts To
Sodium Chloride:	20.0 °F
Magnesium Chloride:	-15.0 °F
Entry™:	-63.0 °F

Directions for Use

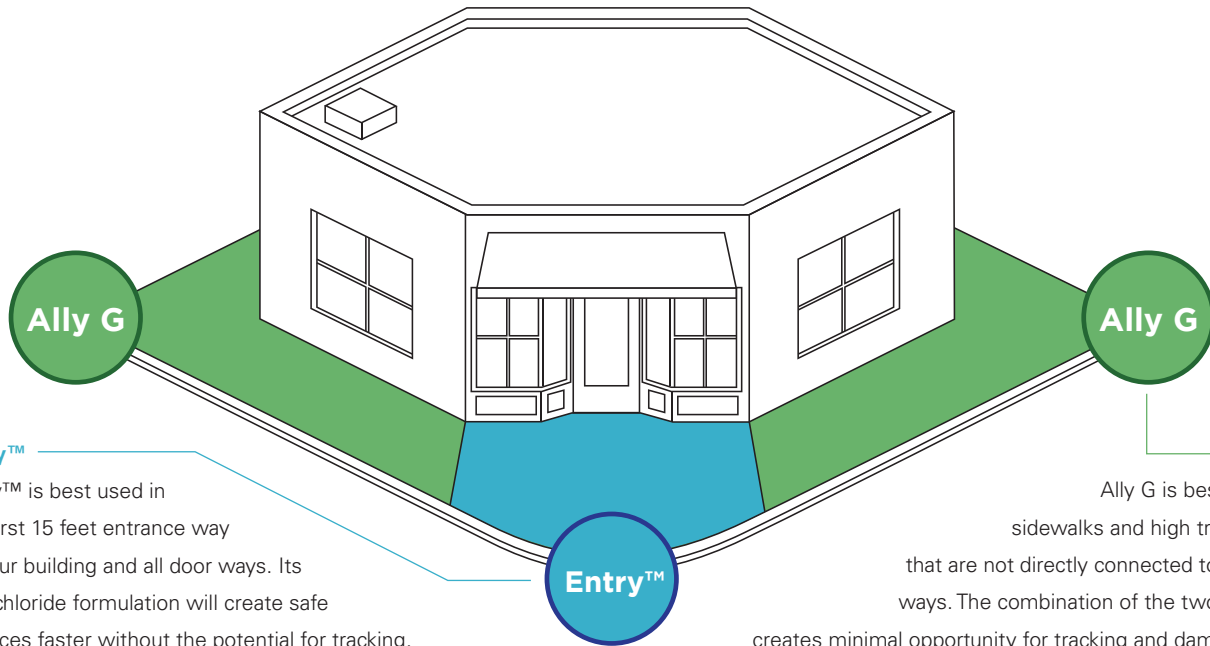
For best results, remove any existing loose snow and slush from driveways, steps and walkways prior to application of ice melt. Evenly sprinkle Ally G on desired surfaces. Melting should begin within 30 seconds. Once snow and ice have sufficiently melted, shovel off slush. Thick accumulations may require additional application. When used in conjunction with Entry™ on entrance ways, Granular tracking can be greatly reduced.

Notice

Do not use on concrete that is less than one year old, or that was not properly mixed, finished, or cured. Flaking or spalling may occur when using any ice melting product on concrete surfaces, especially those that are poorly constructed, contain porous concrete or act as a mortar joints between bricks and flagstone. When used in these situations, Ally should cause less damage than most other de-icers and will reduce the number of concrete freeze/thaw cycles, which also greatly contributes to concrete damage.



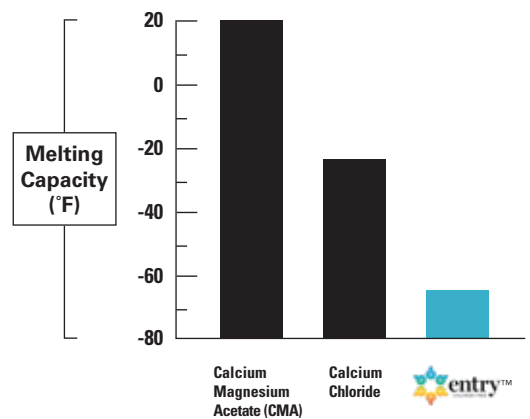
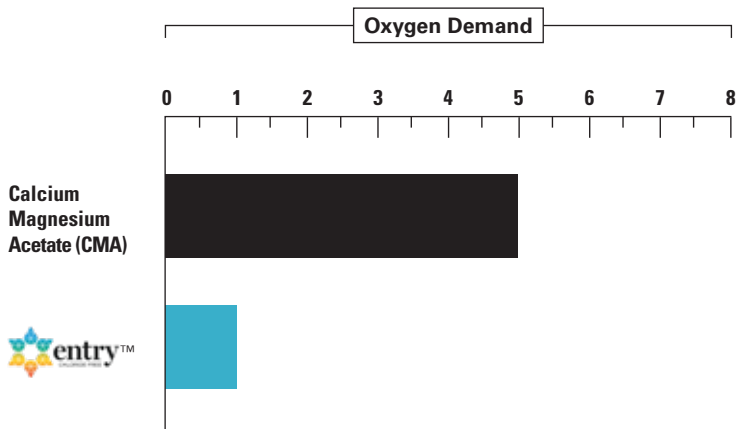
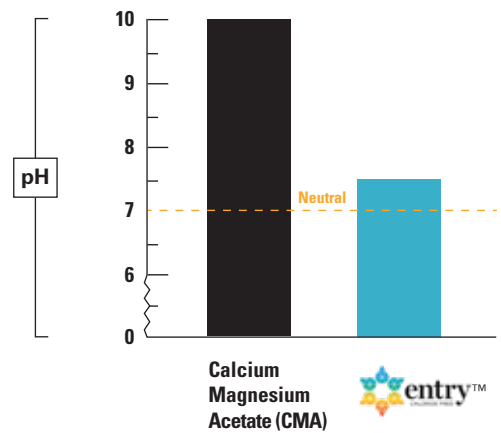
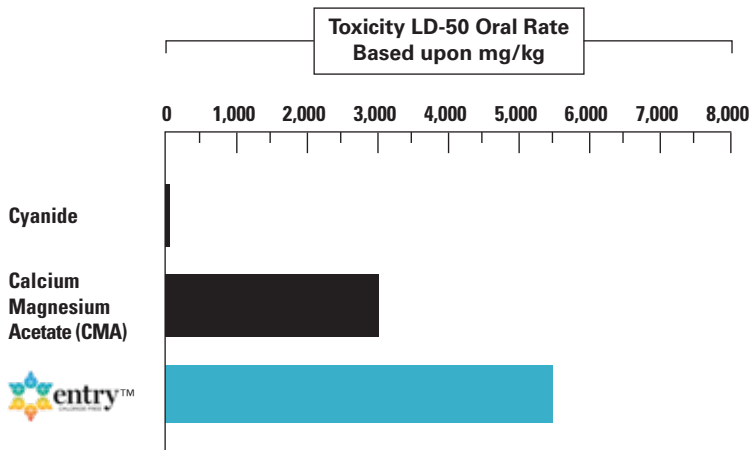
Entry™ & Ally G



Entry™
Entry™ is best used in the first 15 feet entrance way of your building and all door ways. Its non-chloride formulation will create safe surfaces faster without the potential for tracking, corrosion, plant damage and surface damage.

Ally G
Ally G is best used on sidewalks and high traffic areas that are not directly connected to entrance ways. The combination of the two products creates minimal opportunity for tracking and damage while maintaining the highest levels of de-icing, safety and affordability.

Entry™ vs. CMA





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

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

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

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
The logo for 'entry' features a stylized starburst or flower-like shape composed of several colored triangles (blue, green, yellow, orange) arranged in a circle, with the word 'entry' in a bold, lowercase sans-serif font to its right.

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
The logo features a stylized flower with five petals in blue, green, and yellow, positioned above the word "entry" in a bold, lowercase sans-serif font. Below "entry" is the tagline "CHLORIDE FREE" in a smaller, all-caps font.

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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