



Triple Treat Plus Liquid Anti-icer

DESCRIPTION:

Xtreme Plus Liquid Anti-icer is an aqueous solution whose primary active component is magnesium chloride. It is manufactured by solar evaporation of seawater. It provides excellent anti-icing capabilities and is highly effective in reducing corrosion and concrete scaling.

COMPLIANCE:

Xtreme Plus Liquid Anti-icer is not approved for human or animal consumption. It is intended for use only as a chemical anti-icer or pre-wetting agent for granular deicers on roadways.

APPLICATIONS:

Xtreme Plus Liquid Anti-icer is intended for use as an ice and snow removal agent on highways, parking lots, sidewalks, and other surfaces. It may also be used as a prewetting agent for granular deicers, where it acts to hasten melting and reduce the tendency of these products being swept off the road before deicing commences.

CAUTION: Exercise extreme care when using this product for anti-icing. Anti-icing, the practice of applying chemical deicers in advance of precipitation, requires skill and specialized equipment. Liquid deicing products can cause slippery conditions if over-applied or misused. A number of conditions can affect this usage, including pavement type and condition, temperature, humidity, and application rate and timing. It is essential that extensive tests and evaluation be conducted to establish best practices for each condition or set of conditions that may be encountered.

PACKAGING AND SHIPPING:

Xtreme Plus Liquid Anti-icer is available in 1 gal, 5 gal, 55 gal and 250-gallon quantities or transport bulk quantities.

STORAGE AND HANDLING PRECAUTIONS:

Xtreme Plus Liquid Anti-icer requires normal precautionary measures for the safe handling of liquids, i.e., goggles and flushing of skin contact areas with fresh water. Prolonged storage or subjecting this product to temperatures below 0°F (-17.8°C) can result in the formation of magnesium sulfate crystals.

CHEMICAL ANALYSIS:

Component	Units	Typical	Specification
Total Magnesium Chloride	%	29.8	25.0 Min
Corn Steeps - Corrosion Inhibitor	%	<2%	<2%
Water	%	70.2	
pH as is		7.4	6.0-9.0

PHYSICAL PROPERTIES:

Component	Units	Typical	Specification
Density	Lbs./gal.	-	10.79
Specific Gravity (15.5%/15.5% C)		-	1.295

PRODUCT BENEFITS:

% Protection against salt-induced corrosion: 70% minimum
Reduces surface scaling of concrete. Can be stored at 0°F (-17.8°C) for 7 days with less than 1% settleable solids.

TECHNICAL ASSISTANCE:

Technical representatives are available for assistance in applications development, troubleshooting and help in resolving customer service issues.

METHODS OF ANALYSIS:

Methods of analysis and product performance evaluation are taken from the ASTM designations E534-91 and C672-91, from SHRP Method H205, from the Pacific Northwest States Corrosion Test Method.

PRODUCING LOCATION: Wayland, NY

Reliable Products
639 Fitch St.
Oneida, NY 13421
1-800-932-8742

NOTICE: All of the above statements, recommendations, suggestions and data are based on our laboratory results, and we believe same to be reliable. Nevertheless, with the exception of data showing an express guaranty (such as in the case of products specifically designed for use as nutrient supplements), all such statements, recommendations, suggestions and data hereinabove presented are made without guaranty, warranty or responsibility of any kind on our part.



Triple Treat Plus Liquid Anti-icer

Material Safety Data Sheet

Note: This MSDS has been compiled as a response to customer requests. It is not required under current OSHA regulations.

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Chemical Product Name	Magnesium Chloride
Chemical Family	Alkaline Earth Metals
Chemical Name	Magnesium Chloride
Formula	MgCl ₂
Molecular Weight	95.22
Commercial Name	SWP Plus 30 Liquid Deicer

Manufacturer

Reliable Products
639 Fitch St.
Oneida, NY 13421

Emergency Telephone Numbers

1-800-932-8742
(315) 363-9202
Fax: 315) 363-4215

2. COMPOSITION/INFORMATION ON INGREDIENTS

Description

Clear liquid

Ingredient Name

CAS Number

Magnesium Chloride 7791-18-6

Magnesium Sulfate 7487-88-9

Corn Steeps - Corrosion Inhibitor

Water

Exposure Limits

Concentration (%)

29

0.9

<2.0

69.68

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Not Applicable

Potential Health Effects

Route(s) Of Entry:

Human Effects and Symptoms of Overexposure: Ingestion of large amounts (greater than 0.1 pound) can cause gastrointestinal upset and irritation of the stomach. No applicable information found for chronic systemic effects.

Acute Inhalation: May cause mild irritation of nose and throat, unlikely entry route.

Chronic Inhalation: Not applicable

Acute Skin Contact: May cause minor irritation to sensitive person.

Chronic Skin Contact: Not applicable

Acute Eye Contact: May cause irritation and inflammation. Flush eyes with large amounts of water, lifting eyelids occasionally.

Chronic Eye Contact: Not applicable

Acute Ingestion: Ingestion of large amounts may cause gastrointestinal upset.

Chronic Ingestion: Not applicable

Carcinogenicity

NTP: Not listed as a carcinogen or mutagen.

IARC: Not listed as a carcinogen or mutagen.

OSHA: Not listed as a carcinogen or mutagen.

Medical Conditions Aggravated by Exposure: Possible skin irritation to sensitive persons.

4. FIRST AID MEASURES

First Aid For Eyes: For eye contact, flush with water immediately, lifting eyelids occasionally.

First Aid For Skin: Remove clothing from affected area. Wash skin thoroughly. Rinse carefully.

First Aid For Inhalation: Remove to fresh air. Inhalation is an unlikely entry route.

First Aid For Ingestion: Less than a few grams would not be harmful. For larger quantities, drink large amounts of water or milk.

5. FIRE AND MEASURES

Flash Point: Not Applicable

Extinguishing Media: Not Applicable. This product is nonflammable.

Special Fire Fighting Procedures: May use a self-contained breathing apparatus if temperatures exceed 572^oF.

6. ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedures: Contain spills to prevent contamination of water supply or sanitary sewer system. Dispose of according to local requirements.

7. HANDLING AND STORAGE

Storage Temperature (min./max.): Ambient

Special Sensitivity: Not Applicable

Handling and Storage Precautions: Incompatible with sulfuric and nitric acids, caustics, ammonia and cyanides.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection Requirements: Eyeglasses or goggles should be worn.

Skin Protection Requirements: Protective clothing may be worn, but is generally not required. Normal work gloves are adequate. Warm water showering and hand-washing is suggested, if in direct contact with product, but is generally not required.

Respiratory/Ventilation Requirements: Not necessary

Exposure Limits:

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Slightly viscous, amber liquid, almost odorless.

Color: Amber liquid.

Odor: Almost odorless.

Boiling Point (760mm Hg) (°C): 108-123

Melt Point/Freeze Point (°C): -56

PH: 7.0-8.0

Solubility In Water (g/cc, %): Total

Specific Gravity (H₂O=1): 1.273

Bulk Density: NA

% Volatile By Weight:

Vapor Pressure (mm Hg/74°F): <H₂O

Vapor Density (Air=1): NA

10. REACTIVITY

Stability: Stable

Incompatibilities: Incompatible with sulfuric and nitric acids, caustics, ammonia, and cyanides. A hazardous reaction involving magnesium chloride and 2-furan percarboxylic acid has been reported.

Decomposition Products: May evolve chlorine gas when in contact with strong acids or upon heating. Under normal conditions (<572°F), decomposition should not occur.

11. TOXICOLOGICAL INFORMATION

Description: None found

12. ECOLOGICAL INFORMATION

Ecotoxicity: None found

Environmental Degradation: None found

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: For disposal of this material as a waste, act in accordance with all applicable Federal, State, and Local waste management regulations.

14. TRANSPORTATION INFORMATION

D.O.T. Shipping Name: Not Applicable

Technical Shipping Name: Not Applicable

D.O.T Hazard Class: Not Applicable

U.N./N.A. Number: Not Applicable

Product Rq (lbs.): Not Applicable

D.O.T. Label: Not Applicable

D.O.T. Placard: Not Applicable

Freight Class Bulk: Not Applicable

Freight Class Package: Not Applicable

Product Label: N/A

15. REGULATORY INFORMATION

OSHA Status: Not Listed

TSCA Status: Not Listed

Cercla reportable Quantity

SARA Title III

Section 302 Extremely

Hazardous Substances: Not Listed

Section 311/312

Hazard categories: Not an OSHA hazardous material.

Section 313