

The Green Chemical Store Inc.  
Dallas Tx  
972-429-1719



**LIQUIMELT PLUS** a natural saltwater solution originating from ancient seas. It replaces manufactured brine, calcium and magnesium chloride liquids.

**LIQUIMELT PLUS** corrosion inhibited (PNS Approved)

Naturally contains calcium, sodium, magnesium and potassium chlorides giving it a documented freeze point as low as minus 46 degrees fahrenheit, unlike salt brine whose freeze point is minus 6 degrees fahrenheit.

**LIQUIMELT PLUS** is used effectively for deicing or anti-icing. Safely applied to road surfaces, or pre-wetting rock salt at the spinner, and applied to the pavement in temperatures as low as minus 5 degrees fahrenheit and ambient air temperatures as low as minus 10 degrees fahrenheit. Filtered to 5 microns thus, no plugging of nozzles, no freezing of salt into blocks at the spinner, and no unpleasant odor or stickiness. **Just Load and Go!**


- \* Requires NO rock salt
  - \* Requires NO chemical additions or mixing
  - \* Requires NO maintenance
  - \* Environmentally friendly - Adds to the water cycle
  - \* Economically replaces manufactured brine, calcium and magnesium chloride solutions.
  - \* 1 gallon covers 800 - 1000 sq. ft.
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- \* Approved by the Pacific Northwest Snow Fighters Association (PNS) and is QPL Listed Product and approved for use by the Clear Roads organization of 26 State DOT's.
  - \* Has **30 % less corrosive effect than manufactured salt brine.**
  - \* Top Performer in the December 28, 2013 Western Transportation Institute at Montana State University Final Report for "Evaluation and Analysis of Liquid Deicers for Winter Highway Maintenance Operations" prepared by Dr. Xainming Shi, etal. wherein they conclude **"If one desires to reduce the need for plowing, then de-ice using LIQUIMELT PLUS..."**

# SAFETY DATA SHEET

## SECTION 1 – PRODUCT IDENTIFICATION

Product Identifier:	LiquiMelt Plus Liquid Deicer		
Synonyms:	Ancient Seawater, Liquid Deicer, Dust Suppressant, Anti-Icer		
Product Use:	Ice/Dust control for road surfaces		
Product Restrictions:	None known		
Manufacturer/Supplier			
Name:	The Green Chemical Store Inc.		
Address:	11837 Judd Ct. Suite 100, Dallas, TX 75243		
Telephone Number:	972-429-1719	Emergency Telephone:	800-535-5053 Client ID: 107643
Website:	www.thegreenchemicalstore.com		

## SECTION 2 – HAZARDS IDENTIFICATION – POTENTIAL HEALTH EFFECTS

Classification:	Not classified
Label Elements	
Hazard Pictograms:	
Signal Word:	Warning
Hazard Statements:	Does not meet the criteria for classification
Precautionary Statements	
Route of Entry:	Ingestion, Skin/eye contact, Inhalation
Human Effects/ Symptoms:	Irritation, Respiratory Tract
Chronic Inhalation:	Unknown, No information found for chronic system effects
Acute Skin Contact:	Large, Irritation
Chronic Skin Contact:	Unknown, No information found for chronic system effects
Acute Eye Contact:	Irritation, Burning/tears, Salt concentration greater than normal
Chronic Eye Contact:	Unknown, No information found for chronic system effects
Acute Ingestion:	Large amounts could include nausea/vomiting/diarrhea, dehydration/brain damage, death/high, contact doctor, drink large quantity of milk or water
Acute Ingestion:	Small Amounts, less than few grams not harmful
Chronic Ingestion:	Unknown, No information found for chronic system effects

## SECTION 2 – HAZARDS IDENTIFICATION – POTENTIAL HEALTH EFFECTS CARCINOGENICITY

NTP / IARC / OSHA:	Not Listed as carcinogen or mutagen
Extended Exposure:	Ingestion may result in hypertension
HMIS:	Health - 1, Flammability - 0, Physical Hazard - 0, Personal Protection - A

## SECTION 3 – CHEMICAL COMPOSITION INFORMATION ON INGREDIENTS

Chemical Ingredients ( <i>specific</i> )	%	CAS Number
Sodium Chloride	7-11	7647-14-5
Calcium Chloride	8-10	10043-52-4
Magnesium Chloride	2-2.5	7786-30-3
Potassium Chloride	0.5-1.5	7447-04-7
Proprietary Corrosion Inhibitor	5	NA
Water	Bal.	7732-18-5

## SECTION 4 – FIRST AID MEASURES

Eye Contact:	Remove contact lenses if possible and flush with freshwater 15 minutes
Skin Contact:	Remove contaminated clothing and shoes. Wash immediately with soap and water. Seek medical attention if symptoms develop or persist.
Inhalation:	Move person to non-contaminated air. Seek immediate attention if person is unconscious or not breathing or other conditions persist.

Ingestion:	Drink large amounts of water. If gastrointestinal irritation develops, consult medical personnel. Do not induce vomiting without medical advice.
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## SECTION 5 – FIRE AND EXPLOSION DATA AND FIREFIGHTING MEASURES

Extinguishing Media	
Suitable extinguishing media:	Not Applicable – Non Flammable
Unsuitable extinguishing media:	Not Applicable – Non Flammable
Special hazards arising from the substance or mixture	
Fire/explosion hazard:	This product is not flammable or combustible
Reactivity:	Stable
Advice for firefighters:	Use standard firefighting procedures and consider the hazards of other involved materials

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	
General measures:	Contain spills to prevent contamination of water supply or discharge into sanitary or storm sewers. Wipe up with rags. Vacuum or sweep into containers for proper disposal.
Protective equipment:	Use appropriate personal protection equipment (PPE) – See Section 8.
Emergency procedures:	Contain spill. See general measures above.
Environmental precautions:	Avoid entry to sewers and public waters

## SECTION 7 – HANDLING AND STORAGE

Avoid skin and eye contact. Use proper protective equipment and good industrial hygiene practices. Store in a closed container away from incompatible materials. Store in a cool, dry place.	
Storage Temperature:	Ambient, Freeze point of -15°F and lower
Special Sensitivity:	Avoid Contact with Strong Acids
Handling/Storage Precautions:	Use corrosion-resistant acid containers. Recommend storage in poly tanks. Inspect periodically for leaks in area. Mildly corrosive to metals including aluminum.

## SECTION 8 – EXPOSURE CONTROL PERSONAL PROTECTION

Appropriate engineering controls:	Sufficient Ventilation – general mechanical
Waste Disposal:	Wipe with rags after rinsing. Non-hazardous disposal.
Personal Protection	
Eye protection:	Safety glasses/chemical goggles, eye wash fountain
Hand protection:	Water-proof gloves, as required
Skin/body protection:	Wear appropriate clothing
Respiratory protection:	None Required, maintain proper ventilation
Thermal hazard protection:	None Required
Other protection:	Wash hands after handling and before eating, drinking and/or smoking.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance/Color:	Cloudy to clear, blue tint
Odor:	No odor
Odor threshold:	No data available
Flammability:	Non Flammable
Means of Extinction:	Non Flammable
Flashpoint (°C) and Method:	Non Flammable
Upper/Lower Flammable Limit:	Non Flammable
Auto Ignition Temperature (°C):	None
Explosion Data – Sensitivity to Impact/Static Discharge:	None
Hazardous Combustion Products:	None
Relative Density:	1.2 – 1.3 g/ml
Solubility:	Highly soluble in water
Vapor Density (air=1):	Unknown

Boiling Point:	>212°F
Freezing Point:	-15°F or lower
pH:	6.0 – 8.5
Evaporation Rate:	Low

#### SECTION 10 – STABILITY AND REACTIVITY INFORMATION

Reactivity:	Stable
Chemical Stability:	Stable
Incompatibilities:	Avoid contact with strong acids. Mildly Corrosive to some metal including aluminum
Decomposition Products:	May emit chlorine gas in contact with strong acids

#### SECTION 11 – TOXICOLOGICAL PROPERTIES

Route of Entry:	Eye Contact		
Effects of Acute Exposure to Product:	Mild eye irritation, No acute local toxicity, No other adverse effects have been described		
Effects of Chronic Exposure to Product:	None determined		
Exposure Limits			
Irritancy:	Yes, to eyes	Carcinogenicity:	None
Sensitization:	None	Teratogenicity:	None
Reproductive Toxicity:	None	Synergistic Products:	None
Mutagenicity:	None		

#### SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity:	Not Listed/tested
Environmental Degradation:	Not Listed. Practically non-toxic to aquatic organisms
Bioaccumulative Potential:	Rapid biodegradation in the environment, 40% in 5 days
Persistence/Degradability:	Not Tested
Environmental Fate/Mobility:	Not Tested
Mobility in Soil:	Not Tested
Other Adverse Effects:	Not harmful to the ozone layer
Corrosion inhibitor is on the TSCA list and as an EPA inert ingredient class 4A GRAS material	
LD50 (rat):	>2000(mg/kg bw)
LC50 Fish 96h:	>1000.0 mg/L
LC50 Daphnia 48h:	>1000.0 mg/L
EC50 green algal 96h:	>1000.0 mg/L
Fish Chronic value:	>100.0 mg/L
Daphnia Chronic value:	>100.0 mg/L
Algal Chronic value:	>100.0 mg/L

#### SECTION 13 – DISPOSAL CONSIDERATIONS

This product is not expected to be hazardous waste, according to US regulations. The use, mixing or altering of the product may alter its properties and hazards. Follow applicable Federal, State and Local regulations, if any.	
No EPA Waste Numbers are applicable for these product components.	

#### SECTION 14 – TRANSPORTATION CONSIDERATIONS

US DOT:	Not Regulated as a Hazardous Material for Transportation
DOT Shipping Name:	Not Listed
Technical Shipping Name:	Not Listed
DOT Hazard Class:	Not Listed
UN/NA Number:	Not Listed
Product Rq (lbs.):	Not Listed
DOT Label:	Not Listed
DOT Placard:	N/A
Freight Class Bulk/Package:	N/A
Product Label:	N/A

Canadian TDG Information:	Not Regulated as a Dangerous Good for Transportation
International Air Transport Association (IATA) and International Civil Aviation Organization (ICAO) Information	
Shipping Name:	Not Regulated as a Dangerous Good for Transportation
International Maritime Dangerous Goods (IMDG) Code	
Shipping Name:	Not Regulated as a Dangerous Good for Transportation

## SECTION 15 – REGULATORY INFORMATION

A. International Regulations Component Analysis International Inventory Status				
Chemical Ingredients ( <i>specific</i> )	%	CAS Number	US_TSCA	EU-EINECS/CANADA_DSL
Sodium Chloride	7-11	7647-14-5	Yes/Non Hazardous	Yes/Non Hazardous
Calcium Chloride	8-10	10043-52-4	Yes/Non Hazardous	Yes/Non Hazardous
Magnesium Chloride	2-2.5	7786-30-3	Yes/Non Hazardous	Yes/Non Hazardous
Potassium Chloride	0.5-1.5	7447-04-7	Yes/Non Hazardous	Yes/Non Hazardous
Proprietary Corrosion Inhibitor	5	NA	Yes/Non Hazardous	Yes/Non Hazardous
Water	Bal.	7732-18-5	Yes/Non Hazardous	Yes/Non Hazardous
B. USA Federal & State Regulations International Inventory Status				
OSHA Status:		Not Listed		
TSCA Status:		Corrosion inhibitor is on TSCA inventory. To be used in compliance with TSCA and R & D exemption, only by a qualified person.		
RCRA Status:		Not Listed		
CERCLA Reportable Quantity SARA Title III				
Section 302 Extremely Hazardous Substances:		Not Listed		
Section 311/312 Hazard Category:		Not Listed		
Section 313 Toxic Chemicals:		Not Listed		
HMIS Rating:		1, 0, 0, A		
State Regulatory Information				
CA Proposition 65:		This product contains no substance known to the State of California to be a carcinogen or to cause reproductive toxicity.		
Company Name/CAS Number:		N/A		
Concentration/State Code:		N/A		

## SECTION 16 – OTHER INFORMATION

CAUTION: Product is clear to cloudy, may be tinted blue in color and is odorless. May be irritating to the eyes or skin and respiratory system. Wash skin with soap and water after removal of clothes or shoes. For eyes, remove contacts, if possible, flush for 15 minutes. Seek medical attention if symptoms persist. See Section 4 above for more detail.
IN CASE OF LARGE SPILL: Stop leak, isolate or contain and attempt to recover while preventing entry into water intakes or sewer systems. Wash spill area with freshwater.
Prepared By: Mary Bruce, The Green Chemical Store Inc., 972-429-1719 Date Prepared: May 1, 2015 (This SDS Supersedes all other MSDS publications)
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