

## Material Safety Data Sheet Liquid Ice Melt

### Section 1. Chemical Product and Company Identification

<b>Product Name</b>	Liquid Ice Melt	
<b>Product Number</b>	NTN LIMNF	
<b>Manufacturer/ Supplier</b>	NuTech Specialties, Inc. 9811 So. 6150 W. West Jordan, UT 84088	
<b>Phone Number</b>	(801) 253-1000 (Mon-Fri/ 8am- 5pm MT)	
<b>D.O.T. Emergency Phone:</b>	<b>1-800-633-8253</b>	
<b>Date of Preparation</b>	March 7, 2013	<b>Revision Number</b> 1.0

### Section 2. Hazards Identification

<b>Emergency overview</b>	<b>This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.</b>
<b>DANGER!</b>	
Keep out of reach of children. Keep container closed during storage. For institutional and commercial use	
<b>Potential Acute Health Effects</b>	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Non-corrosive for skin. Non-hazardous in case of inhalation
<b>Routes of Entry</b>	Absorbed through skin. Eye contact. Inhalation. Ingestion.
<b>Eyes</b>	Eye irritant
<b>Skin</b>	Repeated exposure causes drying, cracking and irritation.
<b>Inhalation</b>	N/A
<b>Ingestion</b>	If swallowed, induce vomiting to prevent further absorption. Give oxygen if respiration is shallow. GET MEDICAL ATTENTION. Do not give anything by mouth to an unconscious person.
<b>Medical conditions aggravated by exposure:</b>	Symptoms of poisoning are not immediately evident.
<b>Potential Chronic Health</b>	There is no known effect from chronic exposure to this product.
<b>Carcinogenic Effects</b>	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
<b>Target Organs</b>	
<b>Environmental Effects</b>	

### Section 3. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC <sub>50</sub> /LD <sub>50</sub>
Magnesium Chloride Hexahydrate	7791-18-6	25-35%		
Corrosion Inhibitor	Proprietary	2500-3000ppm		

### Section 4. First Aid Measures

<b>Eye Contact</b>	In case of contact with eyes, rinse immediately with plenty of water. Contact a physician
<b>Skin Contact</b>	Wash contaminated area with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion</b>	Induce vomiting IMMEDIATELY. Seek medical attention.
<b>General Advice</b>	In case of Accident or if you feel unwell, seek medical advice immediately (show label or MSDS where possible).
<b>Notes to Physician</b>	

### Section 5. Fire Fighting Measures

<b>Flammability</b>	Non flammable
<b>Fire Fighting Media and instructions</b>	N/A
<b>Products of Combustion</b>	Not available
<b>Special Remarks on Fire Hazards</b>	N/A
<b>Special Remarks on Explosion Hazards</b>	Not available
<b>Sensitivity to Mechanical Impact</b>	Not available
<b>Sensitivity to Static Discharge</b>	N/A
<b>Protection of Fire Fighters</b>	See special remarks on Fire Hazards

### Section 6. Accidental Release Measures

<b>Personal Precautions</b>	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
<b>Methods for Containment</b>	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.
<b>Environmental Precautions</b>	See Methods for Containment

**Methods for Clean Up** Dike and absorb on inert substrate. Eliminate sources of ignition. Avoid run-off into sewer which lead to natural waterways.

### Section 7. Handling and Storage

**Precautions** Protect containers from physical damage. Maintain dry, ventilated conditions for storage. Keep away from strong acids to prevent release of hydrogen chloride gas.

**Incompatibility** No incompatible product according to our data base

**Storage** Keep out of the reach of children. Not for use or storage in or around the home. Store in closed containers.

Keep out of reach of children.  
Keep container closed during storage.

### Section 8. Exposure Controls/Personal Protection

#### Engineering Controls

**Personal Protection** Good general ventilation should be sufficient to control airborne levels. Wash hands after use. Cannot be made non-poisonous.

**Eyes** Safety goggles

**Body** Splash apron and protective boots. Eye bath and safety shower.

**Respiratory** Not applicable

**Hands** Rubber or neoprene

#### Protective Clothing (Pictograms)



**Exposure Limits** See Section 2 For Applicable Exposure Limits.

### Section 9. Physical and Chemical Properties

**Physical State and Appearance** Orange liquid

**Molecular Weight** N/A

**Ph** 7

**Boiling/Condensation Point** 225 F

**Melting/Freezing Point**

**Critical Temperature** N/A

<b>Instability Temperature</b>	N/A
<b>Specific Gravity</b>	(H20 = 1): 1.32
<b>Vapor Pressure</b>	(Non-Aerosols)(mm Hg and Temperature): N/A
<b>Vapor Density</b>	(Air = 1): N/A
<b>Volatility</b>	N/A
<b>VOC</b>	N/A
<b>Evaporation Rate</b>	(H20 = 1): 1
<b>Dispersion Properties</b>	N/A
<b>Solubility</b>	Complete
<b>The Product is:</b>	Non Flammable
<b>Auto-ignition Temperature</b>	N/A
<b>Flash Points</b>	N/A
<b>Flammable Limits</b>	N/A
<b>Fire Hazards in Presence Of Various Substances</b>	N/A
<b>Explosion Hazards in Presence of Various Substances</b>	N/A
<b>Odor</b>	N/A
<b>Color</b>	Orange

#### Section 10. Stability and Reactivity Data

<b>Stability</b>	The product is stable.
<b>Incompatibility with Various Substance</b>	Avoid contact with strong acids
<b>Hazardous Decomposition Products</b>	Will not occur

#### Section 11. Toxicological Information

<b>Routes of Entry</b>	Absorbed through skin. Eye contact. Inhalation. Ingestion.
<b>Toxicity to Animals</b>	Rat 2800mg/Kg
<b>Acute Effects on Humans Eyes</b>	Eye irritant
<b>Skin</b>	Not a likely route of exposure
<b>Inhalation</b>	N/A

<b>Ingestion</b>	If swallowed, induce vomiting to prevent further absorption. Give oxygen if respiration is shallow. GET MEDICAL ATTENTION. Do not give anything by mouth to an unconscious person.
<b>Chronic Effects on Humans</b>	There is no known effect from chronic exposure to this product.
<b>Special Remarks on Toxicity to Animals</b>	Not available
<b>Special Remarks on Chronic Effects on Humans</b>	Not available

### Section 12. Ecological Information

<b>Ecotoxicity</b>	Not available
<b>BOD5 and COD</b>	Not available
<b>Products of Biodegradation</b>	N/A
<b>Toxicity of the Products of Biodegradation</b>	Not available
<b>Special Remarks on the Products of Biodegradation</b>	Not available

### Section 13. Disposal Considerations

<b>Waste Information</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
<b>Waste Stream</b>	Not available

### Section 14. Transport Information

<b>DOT (U.S.A.) (Pictograms)</b>	
<b>TDG Classification</b>	Not controlled under TDG (Canada)
<b>PIN UN, Proper Shipping Name, PG</b>	Not applicable
<b>Maritime Transportation</b>	Not available
<b>Special Provisions for Transport</b>	Not available

### Section 15. Regulatory Information and Pictograms

<b>Regulatory Lists</b>	No products were found.	
<b>Other Regulations</b>	Not available, or of its ingredients	
<b>Other Classifications</b>	<b>HCS (U.S.A.)</b>	Not controlled under HCS (United States)
	<b>USA Regulatory</b>	This product does NOT contain components that are known to the state of

**Lists** California to Cause Cancer or Reproductive Harm at or above California Prop 65 No Observable Effect Level (NOEL)  
SARA 302 Extremely Hazardous Substances - Not listed  
SARA 311 - 1. Immediate (acute) health hazard  
SARA 313 Toxic Chemical List – Not listed

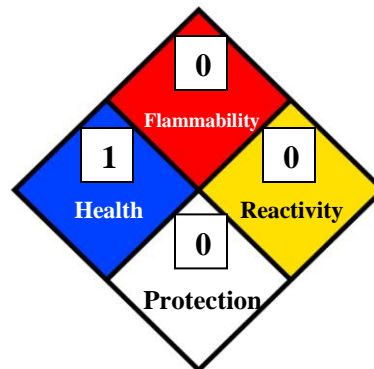
**DSD (EEC)** This product is not classified according to the EU regulations.

**International Regulations Lists** No Products were found.

**Hazardous Material Information System (U.S.A.)**



**National Fire Protection Association (U.S.A.)**



**WHMIS (Classification)** Not controlled under WHMIS (Canada).

The Hazard Ranking systems presented on this MSDS sheet provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

**Section 16. Other Information**

**Expiry Date** 3 (Three Years) from the date of preparation indicated in Section 1.

**Validated by** \_\_\_\_\_ **Verified by** \_\_\_\_\_

**Information Contact** \_\_\_\_\_ **Printed** \_\_\_\_\_

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Validated on** \_\_\_\_\_ **NuTech Specialties, Inc.**