



**1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

**Product Name:** Clearlane® enhanced deicer liquid

**Chemical Name:**

**Formula:**

**Molecular Weight:**

**Manufacturer Name & Address:** **Cargill Deicing Technology**  
24950 Country Club Blvd., Ste 450  
North Olmsted, OH 44070  
**800-600-7258** [www.cargill.com](http://www.cargill.com)

**Emergency Telephone Contact Number:** CHEMTREC (800) 424-9300 24 hours a day

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

CAS #	Component	Percent
7732-18-5	Water	67-70
7786-30-3	Magnesium chloride	27.5-29
7487-88-9	Magnesium sulfate	1.9-3.1
527-07-1	Sodium gluconate	0.25-0.35
Proprietary	Proprietary additive	0.2-0.4
	Green Food Dye, Green Blend 1137	0.17 – 0.21

**3. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

May cause eye, skin, respiratory, and gastrointestinal irritation.

**Potential Health Effects:**

**Eyes**

May cause irritation.

**Skin**

May cause irritation.

## **Ingestion**

Not considered a likely route of exposure under normal product use conditions. If swallowed, may cause gastrointestinal irritation.

## **Inhalation**

May cause respiratory tract irritation.

## **Fire Hazards:**

**NFPA RATING:** Health - 1 Flammability - 0 Reactivity - 0 Special-NDA

## **4. FIRST AID MEASURES**

### **First Aid: Eyes**

Immediately flush eyes with plenty of water for at least 15 minutes.

### **First Aid: Skin**

For skin contact flush with large amounts of water. If irritation persists, get medical attention.

### **First Aid: Ingestion**

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

### **First Aid: Inhalation**

If the affected person is not breathing, apply artificial respiration.

## **5. FIRE AND MEASURES**

### **General Fire Hazards**

None anticipated under normal product use conditions.

### **Hazardous Combustion Products**

Not determined.

### **Extinguishing Media**

Use appropriate extinguishing media for surrounding fire.

### **Fire Fighting Equipment/Instructions**

Firefighters should wear full protective gear.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Containment Procedures**

Stop the flow of material, if this is without risk.

### **Clean-Up Procedures**

Use sand or perlite or vermiculite as an absorbent for large spills of this material.

### **Evacuation Procedures**

Isolate area. Keep unnecessary personnel away.

### **Special Procedures**

None

## **7. HANDLING AND STORAGE**

### **Handling Procedures**

Avoid contact with skin and eyes. Wash thoroughly after handling.

### **Storage Procedures**

Keep the container tightly closed and in a cool, well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Controls

Use general ventilation.

### PERSONAL PROTECTIVE EQUIPMENT

#### Personal Protective Equipment: Eyes/Face

Wear safety glasses with side shields.

#### Personal Protective Equipment: Skin

Use impervious gloves.

#### Personal Protective Equipment: Respiratory

If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

## 9. PHYSICAL AND CHEMICAL PARAMETERS

Appearance:	Clear	Odor:	None
Physical State:	Liquid	pH:	8.3
Vapor Pressure:	ND	Vapor Density:	ND
Boiling Point:	ND	Melting Point:	ND
Solubility (H <sub>2</sub> O):	ND	Specific Gravity:	1.270-1.295 @ 60°F
Evaporation Rate:	ND	VOC:	ND
Bulk Density:	10.6-10.8	Octanol/H <sub>2</sub> O Coeff.:	
Flash Point:	ND	Flash Point Method:	ND
Upper Flammability Limit (UFL):	ND	Lower Flammability Limit (LFL):	ND
Burning Rate:	ND	Auto Ignition:	ND

## 10. STABILITY AND REACTIVITY

### Chemical Stability

This is a stable material.

### Chemical Stability: Conditions to Avoid

None

### Incompatibility

Not Determined

### Hazardous Decomposition

Not Determined

### Possibility of Hazardous Reactions

Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Dose Effects

#### A: General Product Information

No information available for the product.

#### B: Component Analysis - LD<sub>50</sub>/LC<sub>50</sub>

##### Water (7732-18-5)

Oral LD<sub>50</sub> Rat >90 mL/kg

##### Magnesium chloride (7786-30-3)

Oral LD<sub>50</sub> Rat 2800 mg/kg

## Carcinogenicity

### A: General Product Information

No information available for the product.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### A: General Product Information

No information available for the product.

#### B: Component Analysis - Ecotoxicity - Aquatic Toxicity

##### Magnesium chloride (7786-30-3)

Test & Species	Conditions
96 Hr LC50 Gambusia affinis	4210 mg/L [static]
96 Hr LC50 Pimephales promelas	1970-3880 mg/L [static]
72 Hr EC50 Desmodesmus subspicatus	2200 mg/L
24 Hr EC50 Daphnia magna	1400 mg/L
48 Hr EC50 Daphnia magna	140 mg/L [Static]

##### Magnesium sulfate (7487-88-9)

Test & Species	Conditions
24 Hr LC50 Lepomis macrochirus	19000 mg/L [static]
96 Hr LC50 Pimephales promelas	2610-3080 mg/L [static]
72 Hr EC50 Desmodesmus subspicatus	2700 mg/L
24 Hr EC50 Daphnia magna	1700 mg/L
48 Hr EC50 Daphnia magna	266.4 - 417.3 mg/L [Static]

## 13. DISPOSAL CONSIDERATIONS

All wastes must be handled in accordance with local, state and federal regulations.

## 14. TRANSPORTATION INFORMATION

### US DOT Information

**Shipping Name:** Not Regulated

## 15. REGULATORY INFORMATION

### US Federal Regulations

**Component Analysis**

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

**Component Analysis - WHMIS IDL**

No components are listed in the WHMIS IDL.

**Additional Regulatory Information****Component Analysis - Inventory**

<b>Component</b>	<b>CAS #</b>	<b>TSCA</b>	<b>CAN</b>	<b>EEC</b>
Water	7732-18-5	Yes	DSL	EINECS
Magnesium chloride	7786-30-3	Yes	DSL	EINECS
Magnesium sulfate	7487-88-9	Yes	DSL	EINECS
Sodium gluconate	527-07-1	Yes	DSL	EINECS
Proprietary additive	Proprietary	Yes	DSL	EINECS
Green Food Dye, Green Blend 1137				

**16. OTHER INFORMATION**

For additional information, refer to the 2004 North American Emergency Response Guidebook.

**This information is provided in good faith, but without express or implied warranty.**

This MSDS was prepared by

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