



P O Box 1460, Hayden, ID 83835-1460 ♦ 800-952-6457

## SAFETY DATA SHEET LIGNO MAGNO CUSTOM BLEND

### I. MATERIAL IDENTIFICATION AND GENERAL INFORMATION

Common Name:	Ligno Magno Custom Blend Road Stabilizer and Dust Suppressant
Chemical Name:	Magnesium Chloride Solution with Ligninsulfonate
Product Use:	Dust suppression, general industrial and speciality uses
Manufacturer:	Lyman Dust Control, Inc. P O Box 1460 Hayden, ID 83835-1460 1-800-952-6457 <a href="http://www.lymandustcontrol.com">www.lymandustcontrol.com</a>

### II. HAZARDOUS INGREDIENTS

Emergency overview	<p><b>CAUTION - MAY CAUSE EYE IRRITATION</b></p> <p>This MSDS has been compiled as a response to customer requests to address the safe handling of magnesium chloride solution with ligninsulfonate.</p> <p><b>THIS PRODUCT IS NOT REGULATED UNDER OSHA.</b> It does not contain any hazardous components.</p>	
Potential short term health effects	Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
	Eyes	May cause irritation.
	Skin	Non-irritating to the skin.
	Inhalation	May cause respiratory tract irritation.
	Ingestion	May cause stomach distress, nausea or vomiting.
	Target organs	Eyes. Respiratory system.
	Chronic effects	None known.
	Signs and symptoms	Symptoms of overexposure may be headaches, dizziness, tiredness, nausea and vomiting.

### III. PHYSICAL DATA / INFORMATION ON INGREDIENTS

Boiling Point (C):	104 Degrees C/220 Degrees F	Specific Gravity (25C):	1.20 - 1.36
Freezing Point (C):	Minus 5.6	Solubility in Water:	100%
Vapor Pressure (mm Hg):	N/A	Evaporation Rate:	N/A
Vapor Density (Air = 1):	N/A	Percent Volatile By Volume (%)	45.0 (Water) 47 - 51
Appearance and Odor:	Brown Viscous Liquid <sup>w</sup> /Slight Odor		
Ingredients	CAS Number	Percent	
Magnesium Chloride	7791-18-6	20 - 30	
Water	7732-18-5	65 - 75	
Ligninsulfonate	8062-15-5	3-10	

#### IV. HEALTH HAZARD DATA / FIRST AID MEASURES

Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Skin Contact	Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.
Eye Contact	Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.
Ingestion	Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious.
Toxicity	LD50, Toxicological studies on lignosulfonates indicate that they are non toxic. During rat tests to determine toxicity where lignosulfonates were administered orally, no deaths were produced.

In the literature, LD50 for lignosulfonates has been reported to be 20,000 mg/kg body weight by ingestion. Materials with LD50 values of 5,000 mg/kg of body weight and greater are considered to be non-toxic.

Carcinogenicity	None
Mutagenicity	None
Reproductive Effects	None
Synergistic Substances	None
Sensitization Effects	None
Irritation	Practically None

#### V. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used):	Not Applicable
Auto Ignition Temperature:	Not Applicable
Flammable Limits in Air, % By Volume	Not Applicable
Extinguishing Media:	Water Spray, Carbon Dioxide, Dry Chemical, Alcohol - Type of Universal Type Foams
Special Fire Fighting Procedures:	Use Supplied Breathing Air and Protective Clothing
Unusual Fire and Explosion Hazards:	None
NFPA Classification:	Health = 0 Flammability = 0 Reactivity = 0

#### VI. ENVIRONMENTAL PROTECTION PROCEDURES

Spill Response:	Dam Spill, Retrieve Liquid Where Possible , Prevent entry into waterways, sewers, basements or confined areas. Flush with water.
Waste Disposal Methods:	Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Finish cleaning by spreading water on the affected surface and dispose of according to local and regional authority requirements

#### VII. REACTIVITY DATA

Stability:	Normally stable, stable below 200°C.
Hazardous Polymerization:	Will not occur.
Incompatibility	Strong oxidizing agents, concentrated acids, Nitric acid. Avoid contact with these materials.
Conditions To Avoid	Contact with above materials. Heating material to dryness and further to 200 degrees C. Contact with strong base.
Hazardous Decomposition Products	Sulfur dioxide (SO <sub>2</sub> ), Carbon oxides (CO <sub>2</sub> , CO), Nitrogen Oxides (NO <sub>x</sub> ). Ammonia may be released if strong alkali is applied.

#### VIII. SPECIAL PROTECTION INFORMATION

Ventilation Requirements:	Adequate ventilation for comfort is recommended
Respiratory Protection:	N-95 Recommended When Conditions Warrant
Skin Protection	Rubber Gloves Recommended
Eye Protection:	Goggles/Face Shield recommended for prolongs exposure
Other Protective Equipment:	Wear Protective Clothing, Avoid Prolonged Exposure To Clothing That Contains Product

## IX. SPECIAL PRECAUTIONS

Precautions For Repair/Maintenance of:

For Repair/Maintenance of: Flush With Water Until Clean And Use Good Maintenance Practices To Maintain Equipment  
Hygiene in Handling/Storage: Daily Changing Of Clothing That Contains Product Is Recommended.

## X. PERMITTED USES OF LIGNOSULFONATES

21 CFR 178.3120 Adjuvant For Glue	21 CFR 176.210 - Components Of Paper
40 CFR 180.1001 Pesticides Formulations	21 CFR 177.1210 - Gaskets For Food Additives
21 CFR 176.120; 176.170; 176.180; Components Of Paper	21 CFR 175.105 - Components Of Adhesives
21 CFR 173.310 - Boiler Water Additives	21 CFR 573.600 - Animal Feeds
21 CFR 172.715; 182.99 - Pesticides For Formulations	For Use as a Dust Abatement For Fugitive Dust Control

## XI. ECOLOGICAL INFORMATION

Ecotoxicity: May be harmful to freshwater aquatic species and to plants that are not saline tolerant.  
Environmental effects: Not Available

## XII. TRANSPORTATION INFORMATION

U.S. Department of Transportation (DOT) Not regulated as dangerous goods. Not regulated as hazardous.  
Transportation of Dangerous Goods (TDG-Canada) Not regulated as dangerous goods. Not regulated as hazardous.

## XIII. REGULATORY INFORMATION

U.S. Federal regulations: This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200 . All components are on the U.S. EPA TSCA Inventory List.

OSHA Status:	Not Listed
TSCA Status:	Not Listed
CERCLA (Superfund) reportable quantity:	None
SARA Section 302 Extremely Hazardous Substances:	Not Listed
SARA Section 311/312 Hazard Category:	Not an OSHA hazardous material
SARA Section 313 Toxic Chemical:	Not an OSHA hazardous material
RCRA Status:	Not Listed

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