



PRODUCT DATA SHEET (MSDS/SDS)

DURABOND - LIGNON CUSTOM BLEND

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

DETAILS OF SUPPLIER OF SDS

Lyman Dust Control Services of Montana, LLC
704C East 13th ST #351
Whitefish, MT 59937
Phone: 1-800-671-9481
www.lymandustcontrolmt.com

HAZARDOUS INGREDIENTS

Emergency Overview

CAUTION-MAY CAUSE EYE IRRITATION

This MSDS has been compiled as a response to customer requests to address the safe handling of magnesium chloride solution with ligninsulfonate.

THIS PRODUCT IS NOT REGULATED DUNER OSHA. It does not contain any hazardous components.

Potential Short Term Health Effects

Routes of exposure:

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.

PHYSICAL DATA / INFORMATION ON INGREDIENTS

BOILING POINT	104 DEGREES C/ 220 DEGREES F
CHEMICAL NAME	MINUS 5.6
PRODUCT USE	N/A
VAPOR DENSITY	N/A
APPEARANCE AND ODOR	BROWN VISCOUS LIQUID W/ SLIGHT ODOR

SPECIFIC GRAVITY (25C)	1.20-1.36
SOLUBILITY IN WATER	100%
EVAPORATION RATE:	N/A
PERCENT VOLATILE BY VOLUME (%)	45.0(WATER) 47-51

INGREDIENTS	CAS NUMBER	PERCENT
MAGNESIUM CHLORIDE	7791-18-6	20-30%
WATER	7732-18-5	65-75
LIGNINSULFONATE	8062-15-5	3-10

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, 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 bodyweight 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

FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): Not Applicable
Auto Ignition Temperature: Not Applicable
Flammable Limits in Air: Not Applicable
Extinguishing Media: Not Applicable
Special Fire Fighting Procedures: Not Applicable
Unusual Fire and Explosion hazards: None
NFPA Classification: Health-0 Flammability -0 Reactivity-0

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.

REACTIVITY DATA

Stability: Normally stable, stable below 220 degrees celsius.
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: Sulfure dioxide (SO₂), Carbon ocides (CO₂, CO), Nitrogen Oxides (NO_x), Ammonia may be released if strong alkali is applied.

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 prolonged exposure.
Other Protective Equipment: Wear protective clothing, avoid prolonged exposure to clothing that contains product.

SPECIAL PRECAUTIONS

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

PERMITTED USES OF LIGNOSULFONATES

21 CFR 178.3120	ADJUVANT FOR GLUE
40 CFR 180.1001	PESTICIDES FORMULATIONS
21 CFR 176.120; 176.170; 176.180	COMPONENTS OF PAPER
21 CFR 172.715; 182.99	PESTICIDES FOR FORMULATIONS
21 CFR 173.310	BOILING WATER ADDITIVES

21 CFR 176.210	COMPONENTS OF PAPER
21 CFR 177.1210	GASKETS FOR FOOD ADDITIVES
21 CFR 175.105	COMPONENTS OF ADHESIVES
21 CFR 573.600	ANIMALS FEEDS

*FOR USE AS A DUST ABATEMENT FOR FUGITIVE DUST CONTROL

ECOLOGICAL INFORMATION

Ecotoxicity: Flush with water until clean and use good maintenance practices to maintain equipment.

Environmental effects: Not Available

TRANSPORTATION INFORMATION

US Department of Transportation (DOT): Not regulated as dangerous goods. Not regulated as hazardous.

Transportation of Dangerous Good (TDG-Canada): Not regulated as dangerous goods. Not regulated as hazardous.

REGULATORY INFORMATION

US Federal Regulations: This product is not known to be a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard. All components are on the EPA inventory list

OSHA STATUS/TSCA STATUS: Not listed

CERCLA reportable quantity: None

SARA Section 302 Hazardous substance: Not listed

SARA Section 311, 312, 313 Hazard category: Not an OSHA Hazardous Material

RCRA Status: Not listed

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Durabond Custom Blend (2022)

PRODUCT	GLYCERIN
BASE	MAGNESIUM CHOLORIDE SOLUTION WITH LIGNINSULFONATE
PH	2.0-3.7
SOLIDS	55-60%
CA	4-5%
NA	1%
SULFUR	7-8%
SUGARS	4-10%
LIGNIN	74-80%
COLOR	BROWN
WEIGHT	10.4#/GALLON

% on dry matter basis