



Product Data Sheet (SDS)

Magnesium Lignosulfonate Solution

Hazard Identification:

Thermal burns to the skin and eyes from elevated temperatures. Secondly hazard is from the inhalation of the mist. **This material is only considered hazardous if at elevated temperature, (>130F).** Other hazards or issues: slippery.

Warning irritant to Skin. T<130F NEPA rating Health-2; Flammability-1; Reactivity-0; Special hazards- Hot

T<130F NEPA rating Health-0; Flammability-1; Reactivity-0; Special hazards- none

Chemical name	CAS number	Percent Concentration
Water	7732-18-5	Balance
Lignosulfonic Acid	8061-54-9	
Magnesium Salt		Blend 50-58%

First Aid:

Description of necessary measures, subdivided according to the different routes of exposure, i.e. Inhalation, skin and eye contact and ingestion. May cause thermal burns to all points of contact.

Ingestion: Not applicable under normal use. May cause serious damage to mouth, throat, and stomach if ingested. DO NOT induce vomiting. Rinse mouth out with water. Drink large amounts of water and get immediate medical assistance.

Eye Contact: May cause irritation, reddening, burning, and possible blindness. Speed is essential. Immediately flush eyes with running water at least 15 minutes while holding eyelids open to ensure flushing of entire eye surface. Get immediate medical assistance.

Skin Contact: May result in irritation, reddening, and burns. Wash exposed area immediately with water for 15 minutes.

Inhalation: Mist may cause upper respiratory tract irritation. Remove to fresh air. Get medical assistance if symptoms persist.

Most important symptoms/effects, acute and delayed: acute- irritation and possible chemical burns: delayed- none known

Indication of immediate medical attention and special treatment needed, if necessary: seek medical assistance if irritation persists after 15 minute flush, or for chemical burns.

Fire-fighting measures:

Suitable (and unsuitable) extinguishing media: Water

Specific hazards arising from the chemical (e.g nature of any hazardous combustion products): none

Special protective equipment and precautions for fire-fightings: None

Accidental release measures:

Personal precautions, protective equipment and emergency procedures: Avoid all contact with skin and eyes. The liquid may have an elevated temperature (140-240F).

Environmental precautions: keep large quantities out of waters of the state due to high BOD loading.

Methods and materials for containment and cleaning up: Dike and contain spill. Ventilate spill area. Neutralize spills with water and clean up immediately. Spills can make floors very slippery. Use caution when handling or diluting chemicals and spills.

Handling and Storage:

Precautions for safe handling: Avoid all contact with skin and eyes. The liquid may have an elevated temperature (14-240 Deg F)

Conditions for safe storage, including any incompatibilities: Vessels which have contained magnesium lignosulfonate should be checked for the absence of hydrogen sulfide gas before entering.

Exposure controls and personal protective equipment:

Control parameters e.g. occupational exposure limit values or biological limit values: None

Appropriate engineering controls:

Local Ventilation: Provide local exhaust as needed so that the exposure limits are met.

Mechanical (General): Provide general ventilation in processing and storage areas so that exposure limits are met.

Individual protections measures, such as personal protective equipment:

Respiratory Protection:

A NIOSH/MSHA approved respirator with dust/mist cartridge is recommended.

Protective Gloves: Rubber

Eye Protection: Chemical safety goggles if there is a potential for spray or mist.

Other Protective Clothing or Equipment: Aprons, Boots, Face shield, and Rubber suit may be needed when handling large amounts of liquid.

Work/Hygiene Practices: Eyewash stations and safety showers MUST be readily available.

Physical and Chemical Properties:

Parameter		Parameter	
Appearance	Reddish- Brown water-based liquid	pH	4.0-6.5
Odor	Sweet like molasses	Evaporation rate (Butyl Acetate=1)	Not determined
Odor threshold	Not determined	Vapor pressure (MMHg)	0.7-3.0
Melting/freezing temperature	Not determined	Vapor density (AIR=1; 1 ATM)	Heavier than air
Initial boiling temperature (@ 760 MMHg)	216-222 Deg. F	Not determined	Heavier than water
Flash Point	>200 Deg. F	Solubility	100%
Flammability	Not Flammable	Viscosity	Not determined

Parameter		Parameter	
Auto ignition temperature	Not determined	Upper Explosive limit	Not applicable
Decomposition temperature	Not determined	Lower Explosive limit	Not applicable
Partition coefficient	Not applicable	Specific Gravity (H ₂ O=1)	Intermediate - 1.2 Heavy - 1.35
% Volatile by volume (@ 70 Deg. F)	Variable	Temperature	140-240 Deg. F

Stability/ Reactivity:

Reactivity

Chemical stability: Stable

Possibility of hazardous reactions

Conditions to avoid (e.g. static discharge, shock or vibration):

Incompatible materials: Strong Oxidizers and Bases

Hazardous decomposition products: Sulfur Dioxide vapors may be released during evaporation.

Toxicology:

Route(s) of entry: Skin and mucous membrane

Symptoms of exposure: Irritation

Health effects (immediate/delayed): Irritation, no known delayed health effects

LC50/LD50: Not determined

Ecology Information:

Ecotoxicity (aquatic and terrestrial): No information found. Sodium Lignosulfonate data has LC50 of 2,125-7,300 mg solids/liter.

Lignin products have a high BOD (biological oxygen demand) in aquatic systems. Spills or runoff into surface or ground waters may create low dissolved oxygen conditions resulting in fish kills or increases in groundwater concentrations of iron, sulfur compounds, and other pollutants.

Persistence: No information found

Bioaccumulative potential: No known bioaccumulative toxins.

Mobility in soil: No information available

Other adverse effects: None known

Disposal:

Water Disposal Method: Dilute and flush to an approved treatment system in accordance with Local, State, and Federal Regulations.

Transportation:

UN/NA number	N/A
Proper Shipping Name	N/A
Transportation Hazard Class(es)	N/A
Packing group	N/A

Environmental Hazards	N/A
Packaging limitations	N/A
Special precautions for shipping	N/A

Regulatory Information:

Regulations specific to this product:

It is the users responsibility to determine what regulatory information is relevant to the usage of this product

EPCRA

- Section 302 (EHS) TPQ: None known
 - Section 304 EHS RQ: None known
 - VERCLA RQ: None known
 - Section 313: None known
 - RCRACODE: None known
- CAA 112 (r) TQ: None known
California Prop 65: None known