

MATERIAL SAFETY DATA SHEET

Page 1 of 2

PRODUCT NAME : ADDITIVE A TYPE 2 POWDER

LIGNOTECH USA, INC.
Research & Development
100 Grand Avenue
Rothschild, WI
54474-1198
TEL: (715)359-6544
FAX: (715)355-3648

EMERGENCY PHONE (715)359-6544
*CHEMTREC PHONE (800)424-9300

MSDS NO.: 100944
ORDER NO.:
PREPARED ON: 07/17/2002
REPLACES: All Previous
PREPARED BY: S. Lebo

*Use only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals.

I. PRODUCT IDENTIFICATION

Common Name:	Calcium Lignosulfonate	Chemical Formula:	Amorphous Polymer
Synonyms:	See Above	Chemical Family:	Wood Chemicals
Manufacturer:	LignoTech USA, Inc.	CAS Numbers:	8061-52-7
Shipping Name - DOT:	Lignin Pitch - Class 55	UN Number:	Excluded
Hazard Class - DOT:	Not Restricted	Physical State:	Powder
Hazard Class - IATA:	Not Restricted		

HMIS Rating(0-4) HEALTH = 1 FIRE = 1 REACTIVITY = 0 SPECIAL = 0

WARNING NUISANCE DUST -- As with all dusts, avoid high concentrations.

II. HAZARDOUS INGREDIENTS

Principal Hazardous Components	Percent	Threshold Limit Value (units)
None known		

III. PHYSICAL DATA

Boiling Point (C):	Not Applicable	Specific Gravity (25 C):	Not Applicable
Freezing Point (C):	Not Applicable	pH (3% Soln.):	4.5
Vapor Pressure (mm Hg):	Not Applicable	Bulk Density (g/ml):	0.37 - 0.56
Vapor Density (Air = 1):	Not Applicable	Solubility in Water:	100% Soluble
% Volatiles By Weight:	5.0 (water)	Evaporation Rate:	Not Applicable
Appearance & Odor:	Brown powder with slight odor.	Water/Oil Dist. Coeff.:	100% in water

IV. HEALTH HAZARD DATA

Threshold Limit Values:	OSHA PELV = 15 mg/M3 for dust Minimize contact with eyes, skin, clothing. LD50 > 2 g/kg
Carcinogen Listings - NTP / IARC:	Not a carcinogen
Primary Route(s) of Entry:	Skin contact, eye contact, Inhalation
Symptoms of Overexposure:	No effects of overexposure to lignosulfonates are known.
Conditions Aggravated by Exposure:	None known.
Irritancy of Material:	None known.
Sensitization to Material:	May cause allergic reaction in rare cases.
Teratogenicity:	None known.
Mutagenicity:	None known.
Reproductive Toxicity :	None known.
Synergiatic Substances:	None known.
First Aid -- Eyes:	Irrigate with potable water.
Skin:	Skin should be flushed with clean water.
Inhalation:	Remove from dusty area.
Ingestion:	Give water to dilute and get medical attention.
Notes to Physician:	Very low toxicity.

MATERIAL SAFETY DATA SHEET

Page 2 of 2

PRODUCT NAME : ADDITIVE A TYPE 2 POWDER**V. FIRE AND EXPLOSION HAZARD DATA**

Flash Point (Method Used): Not Applicable Auto Ignition Temp: 400 C for dust
 Flammable Limits in Air, % By Volume Lower: 0.2 oz./cu.ft. Upper: 3.5 oz./cu.ft.

Extinguishing Media: Use water spray, carbon dioxide, dry chemical, alcohol-type or universal-type foams applied by manufacturers recommended techniques.

Special Fire Fighting Procedures: Use supplied breathing air and protective clothing.

Unusual Fire and Explosion Hazards: Flammable solids may provide conditions for a dust explosion.

VI. SPILL OR LEAK PROCEDURES

Spill Response: Mechanically collect and remove spilled material. Area may be washed with water.

Neutralizing Chemicals: None required.

Waste Disposal Methods: Incinerate, bury or flush to sewer following applicable regulations.

VII. REACTIVITY DATA

Stability: Stable Conditions to Avoid: Contact with strong oxidizing agents.

Incompatibility: Materials to Avoid: None

Hazardous Polymerization: Will not occur Conditions to Avoid: None

Hazardous Decomposition Products: Sulfur dioxide, carbon dioxide, and carbon monoxide.

VIII. CONTROL MEASURES

Ventilation Requirements: Adequate ventilation for comfort is recommended.

Respiratory Protection: Full respiratory protection program recommended.
NIOSH approved dust mask recommended.

Protective Gloves: Gloves recommended for prolonged exposure.

Eye Protection: Goggles recommended for prolonged exposure.

Other Protective Equipment: Clothing which contacts skin should be changed daily.

IX. SPECIAL PRECAUTIONS

Repair/Maintenance of Contaminated Equipment: None required.

Hygiene in Handling and Storage: Personal hygiene is strongly encouraged so all clothing items are changed daily.

Other: Normal precautions common to good manufacturing practice should be followed.

X. ADDITIONAL REGULATORY CONCERNS

Lignosulfonates are non-toxic & non-irritating. Government regulations for use of lignosulfonates are summarized below:

40 CFR 180.1001 Sections (c) & (e)	21 CFR 176.210 - Defoamers
21 CFR 176.120; 176.170; 176.180; 178.3120 - Paper	21 CFR 177.1210 - Gaskets
21 CFR 179.310 - Boiler Water	21 CFR 175.105 - Adhesives

The information and recommendations contained herein are offered as a service to our customers but are not intended to relieve the user from its responsibility to investigate and understand pertinent sources of information and to comply with all laws and procedures applicable to the safe handling and use of these materials. The information and recommendations provided herein were believed by LignoTech USA, Inc. to be accurate at the time of preparation or obtained from sources believed to be generally reliable. However, LignoTech USA, Inc. makes no warranty concerning their accuracy and LignoTech USA, Inc. will not be liable for claims relating to any party's use of or reliance on information or recommendations contained herein, regardless of whether it is claimed that the information or recommendations are inaccurate, incomplete or otherwise misleading.