

**MATERIAL SAFETY DATA SHEET**

BorrePlex OA LIQUID  
Internal No.: 203292

Date Prepared: 03/15/2011

Replaces: All Previous

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Trade Name :** Calcium Lignosulfonate, Lignosulfonic Acid Mixture  
**Synonyms :** See Above

**CAS Numbers :** 8061-52-7 + 8062-15-5

**Manufacturer:** LignoTech USA, Inc.  
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**\*Use only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals .**

**SECTION 2. HAZARDOUS IDENTIFICATION**

**Emergency Overview:** Considered an irritant to mucous membranes, skin and eyes. Characteristic of mild organic acids due to low pH.

**SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS**

<u>Ingredient Name</u>	<u>EINECS No.</u>	<u>CAS No.</u>	<u>Percent</u>
Calcium Lignosulfonate	Exempt Polymer	8061-52-7	Proprietary
Lignosulfonic Acid	Exempt Polymer	8062-15-5	Proprietary
Water		7732-18-5	45%
Component A		Proprietary	Proprietary

**SECTION 4. FIRST AID MEASURES**

**Eyes:** Flush eyes with water for at least 15 min. and consult with physician.  
**Skin:** Wash skin with soap and water and consult with physician if problem occurs. Remove contaminated clothing.  
**Inhalation:** Move to fresh air.  
**Ingestion:** Give water to dilute and get medical attention.

**SECTION 5. FIRE FIGHTING MEASURES**

**Extinguishing Media:** Not Applicable  
foam.  
**Improper Extinguishing Media:** Not Applicable  
**Special Fire Fighting Procedures:** None.  
**Fire and Explosion Hazards:** May react with metals (iron, zinc or aluminum) to form highly flammable hydrogen

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Use personal protection recommended in Section 8.  
**Environmental Precautions:** Avoid infiltration of large quantities into drains, surface water, groundwater and soil  
**Methods for Containment:** Stop leak, use berms, dikes, absorbent material and drain covers.  
**Methods for Clean-up:** Mechanically collect and remove spilled material. Area may be washed with water. Can be neutralized with sodium carbonate or bicarbonate.

### SECTION 7. HANDLING AND STORAGE

Handling Precautions: Wash thoroughly after handling. Remove all contaminated clothing and wash before re-use. Use with adequate ventilation. Do not get on skin or in eyes. Avoid inhalation or ingestion.

Storage: Store in an area with secondary containment, cool, dry, well ventilated, away from incompatible substances.

### SECTION 8. EXPOSURE CONTROLS /PERSONAL PROTECTION

OSHA PELV: None established. Minimize contact with eyes, skin, clothing.

Exposure Control: Use adequate general or local exhaust ventilation.

Respiratory Protection: Use NIOSH approved respirator when dusts, mists, or vapors are present.

Hand Protection: Wear appropriate gloves to prevent skin exposure.

Eye Protection: Wear appropriate eye glasses or chemical safety goggles.

Personal Protection: Wear appropriate protective clothing to prevent skin exposure.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Specific Gravity (25 C):	1.280
Melting Point :	Not Applicable	pH (3% Soln.):	2 - 3
Boiling Point (C):	104 C	Bulk Density (g/ml):	Not Applicable
Freezing Point (C):	-2 C	Dry Matter, %:	53 - 57%
Vapor Pressure (mm Hg):	14.2 @ 20 C	Solubility in Water:	100% Soluble
Vapor Density (Air = 1):	1.21 @ 20 C	Evaporation Rate:	Normal 0.4 (water)
% Volatiles By Weight:	43 - 47 (water)	Water/Oil Dist. Coeff.:	100% in water
Appearance & Odor:	Brown liquid with slight odor		

### SECTION 10. STABILITY AND REACTIVITY

Stability: Stable.

Incompatibe Materials: Contact with strong oxidizing agents, iron, zinc, aluminum.

Hazardous Decomposition Products: Typical combustion products. May react with metals (iron, zinc, aluminum) to form highly flammable hydrogen gas which can form explosive mixtures with air.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None known.

### SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE (SINGLE EXPOSURE) TOXIC TESTS. PRODUCT/SIMILAR PRODUCT

<u>Route of exposure</u>	<u>Value/unit</u>	<u>Species</u>
Oral LD50	No Data	Rat

Skin Contact: Considered mild irritant due to pH.

Eye Contact: Considered an irritant characteristic of mild organic acid due to pH

Sensitization to Material:

CHRONIC TOXICITY: Product/Similar Product

Carcinogen Listings: Not a carcinogen.

Mutagenicity: None Known.

### SECTION 12. ECOLOGICAL INFORMATION

PRODUCT/SIMILAR PRODUCT

Biological oxygen demand(BOD): Partially biodegradable.

Chemical oxygen demand(COD):

**SECTION 13. DISPOSAL INFORMATION**

General Regulations: Dispose or destroy in accordance with official recommendations and applicable legislation

**SECTION 14. TRANSPORTATION INFORMATION**

Shipping Name - DOT:	Lignin Liquor - Class 55	Harmonized Tariff Code for US:	3804.00.1000-0
Hazard Class - DOT:	Not Restricted	Hazard Class - IATA:	Not Restricted
UN Number:	Excluded	EU Classified as Dangerous Goods:	No

**SECTION 15. REGULATORY INFORMATION**

GLOBAL CHEMICAL INVENTORY STATUS

**SECTION 16. OTHER INFORMATION**

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

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