

DUST SUPPRESSANT

Date July 1, 2014

MATERIAL SAFETY DATA SHEET

SECTION I – Product and Company Identification

Product: Corn Enhanced Lignin
Chemical Name: Trade Secret

SECTION II – Ingredients

<u>Ingredient(s):</u>	<u>CAS No.</u>	<u>% by Wt.</u>	<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>NFPA</u>	
			<u>TWA</u>	<u>STEL</u>	<u>TWA</u>	<u>STEL</u>		
<u>SARA</u> Trade Secret	* *	—	—	—	—	—	1-0-1	—

NFPA-Hazard Identification: This system identifies the hazards in three categories: Health, Flammability, and Reactivity and indicates the order of severity ranging from 4 indicating a severe hazard to 0 indicating no special hazard.

SARA-EPA SARA Title III Hazard Categories: 1-Fire Hazard, 2-Sudden Release of Pressure, 3-Reactive, 4-Immediate (Acute) Health Hazard, 5-Delayed (Chronic) Health Hazard.

SECTION III – Physical Data

Boiling Point (°F): Not available
Vapor Pressure (mm Hg): Not available
Vapor Density (Air=1): Not Available
Solubility in Water: Appreciable
Appearance and Odor: Brown solution, slight odor

Specific Gravity (H₂O=1): 1.14
Evaporation Rate (n-BuAc=1): Not available
Melting Point: Not applicable
pH: 5.5 – 7.5

SECTION IV – Fire and Explosion Hazard Data

Flash Point (Method Used): Not applicable
Flammable Limits: LeL – Not applicable UeL – Not applicable
Extinguishing Media: Water, carbon dioxide, or dry chemical
Special Fire Fighting Procedures: Wear proper fire-fighting equipment
Unusual Fire and Explosive Hazards: None

SECTION V – Health Hazard Data

Route(s) of Entry: Inhalation – yes. Skin – Unlikely. Eyes – yes. Ingestion – yes.
Carcinogenicity: NTP – no. IARC-no. OSHA-no.
Threshold Limit Value: See Section II
Acute Oral Toxicity (rat): Low acute oral toxicity: LD50 for rats is >5g/kg.
Skin Contact: May cause irritation.
Eye Contact: May be irritating to eyes.
Inhalation: Acute exposure may be irritating.
Effects of Overexposure: Acute signs and symptoms as listed.
Emergency and First Aid Procedures:
Ingestion: If large quantities are ingested, seek medical supervision.
Skin Contact: Wash skin with water and mild soap. If irritation occurs, seek medical attention.

Eye Contact: Flush eyes with plenty of water for 30 minutes. Get medical attention if warranted.

Inhalation: Remove to fresh air.

SECTION VI – Reactivity Data

Stability: Stable

Conditions to Avoid: Incompatible materials, strong base and heating to 200°C.

Incompatibility (Materials to Avoid): Strong oxidizing agents, concentrated acids, nitric acid, strong base.

Hazardous Decomposition Products: Sulfur dioxide, carbon oxides, nitrogen oxides. Ammonia may be released if strong alkali is applied.

Hazardous Polymerization: Will not occur.

SECTION VII – Spill or Leak Procedures

Steps to Be Taken In Case Material is Released or Spilled: All spills should be contained and picked up with earthen or other absorbent material and placed in suitable container.

Waste Disposal Method: Dispose of in approved solid waste disposal area per current regulations.

SECTION VIII – Special Protection Information

Personal Protective Equipment: Protective clothing, gloves and safety eyewear protection are not required, but recommended. Use appropriate NIOSH-approved respirator when needed.

Respirator selection must be based on contamination levels found in the work area. Comply with OSHA standards 29 CFR 1910.134 Respiratory Protection and 29 CFR 1910.1000 Air Contaminants Permissible Exposure Limits. Eyewash and safety shower should be available. Follow good housekeeping and manufacturing practices.

Ventilation: Use general or local exhaust ventilation to meet OSHA PELs or ACGIH TLV requirements.

SECTION IX – Special Precautions

Precautions to Be Taken in Handling and Storing: Spilled material may be slippery. Clean up spills completely before walking in the area of spillage.

Other Precautions: None

SECTION X – Transportation (DOT Information)

Department of Transportation – Classification: Not applicable

Department of Transportation – Identification Number: Not applicable

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