

(52)

## Material Safety Data Sheet

### Substance Identification

**Identity:** LIGNIN SULFONATE **CAS #:** 8061-53-8  
**Trade Names:** LS-50, Ammonium Lignin Sulfonate, Ligninsulfonic Acid

**Manufacturer:** The Prince Manufacturing Co.  
 One Prince Plaza  
 Quincy, IL 62305  
 217-222-8854

**Emergency:** Chemtrec  
 1-800-424-9300

### Components and Contaminants

Chemical Name:	CAS #	OSHA PEL	ACGIH TLV	Percent
Lignin Sulfonate	8061-53-8	15 mg/m <sup>3</sup>	15 mg/m <sup>3</sup>	100% Lignin

### Physical Data

<b>Boiling Point:</b>	212° F	<b>Specific Gravity (H<sub>2</sub>O=1):</b>	1.2
<b>Vapor Pressure (mm/Hg):</b>	NA	<b>Melting Point:</b>	NA
<b>Vapor Density (Air=1):</b>	NA	<b>Evaporation Rate (Butyl Acetate=1):</b>	NA
<b>Solubility in Water:</b>	100%		
<b>Appearance and Odor:</b>	brown liquid, woody odor.		

### Fire and Explosion Hazard Data

<b>Flash Point:</b>	> 330° F	
<b>Flammable Limits:</b>	LEL NA	UEL NA
<b>Extinguishing Media:</b>	Foam, CO <sub>2</sub> , dry chemical or water.	
<b>Special Fire Fighting Procedures:</b>	In the event of fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.	
<b>Unusual Fire and Explosion Hazards:</b>	None	

### Reactivity Data

<b>Stability:</b>	Stable under ordinary conditions of use and storage.
<b>Conditions to Avoid:</b>	Heat above boiling.
<b>Incompatibility (materials to avoid):</b>	Strong oxidizers (possible ignition) and strong alkalis (ammonia release)
<b>Hazardous Decomposition or Byproducts:</b>	Thermal decomposition may release toxic oxides of carbon, sulfur and nitrogen.
<b>Hazardous Polymerization:</b>	Will not occur.

### Health Hazard Data

<b>Route of Entry:</b>	<b>INHALATION:</b> Inhalation of high concentrations may cause irritation of the upper respiratory tract. <b>SKIN:</b> No <b>INGESTION:</b> Ingestion of lignin may cause abdominal pain and nausea.
------------------------	--

**Health Hazard Data (cont.)**

<b>Health Hazards (Acute and Chronic):</b>	Respiratory and skin irritation may result from prolonged overexposure.
<b>Carcinogenicity:</b>	NTP: No IARC Monographs: No
<b>Signs and Symptoms of Exposure:</b>	None known.
<b>Aggravation of Pre-existing Conditions:</b>	Persons with impaired respiratory function may be more susceptible to the effect of this substance.
<b>Emergency and First Aid Procedures:</b>	<p><b>IF INHALED</b>, remove to fresh air and seek medical attention for any breathing difficulty.</p> <p><b>IN CASE OF SKIN CONTACT</b>, wash with soap &amp; water. Seek medical attention if redness and irritation persist.</p> <p><b>IN CASE OF EYE CONTACT</b>, flush eyes immediately with water for at least 15 minutes. Seek medical attention if irritation persists.</p> <p><b>IF INGESTED</b>, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician immediately.</p>

**Precautions for Safe Handling and Use**

<b>Material Release or Spill Precautions:</b>	Should a spill occur, ventilate area. If in a closed area, clean-up personnel require respiratory protection. Recover uncontaminated material for use. Precautions should be taken to prevent the spread of this product into publicly-owned treatment works, streams, ponds or lakes. If the spread of lignin is possible then a plan and schedule for containment and removal should be in place.
<b>Waste Disposal Method:</b>	Dispose of unreclaimable material in a RCRA-approved waste facility.
<b>Handling and Storing Precautions:</b>	Protect containers from damage and keep closed when not in use.
<b>Other Precautions:</b>	Observe good personal hygiene. Wash after handling.

**Control Measures**

<b>Respiratory Protection:</b>	Use NIOSH approved respirator with an organic vapor cartridge and particulate filter.
<b>Ventilation:</b>	A system of local and/or general exhaust is recommended to keep employee exposures below the airborne exposure limits. Local exhaust is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.
<b>Protective Gloves:</b>	Yes
<b>Eye Protection:</b>	Safety goggles are recommended.
<b>Other Protective Clothing or Equipment:</b>	Use other protective equipment when necessary in order to avoid prolonged exposure to skin.
<b>Work and Hygienic Practices:</b>	Observe good personal hygiene. Wash after handling.

**SARA Title III Section 313 Supplier Notification**

This product does not contain chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372.45:

This information must be included in all MSDS's that are copied and distributed for this material.