

MATERIAL SAFETY DATA SHEET

Section 1: Identification

CHEMICAL NAME: **Ligamin**
CHEMICAL FAMILY: Mineral Pitch Resin
EMERGENCY PHONE: (281)331-0200
DATE EFFECTIVE: 3/1/2000

Section 2: Physical Data

Appearance: Black powder
Odor: Mild
Specific Gravity: (water= 1.0): 0.64
Bulk Density: 40 lb./cu. ft.
Boiling Point: N/A
Melting Point: <5001F
Solubility in Water (% by weight): Negligible (Dispersible)
Volatile (% by weight): N/A
Vapor Pressure (mm Hg at 2001Q): <1
Vapor Density (air = 1.0): NDA
pH (1000): N/A
Stability: Under normal conditions, stable
Viscosity sus @ 1001F: N/A

Section 3: Fire and Explosion Data

Flash Point (methods used): N/A
Flammable Limits: N/A
Combustion Products: Normal combustion forms carbon dioxide, water vapor and may produce oxides of nitrogen. Incomplete combustion can produce carbon monoxide.
Special Fire Fighting Procedures: Firefighters must be equipped to prevent breathing of vapors or combustion by-products. Wear approved self contained breathing apparatus and protective clothing.
Extinguishing Media: Water (spray or fog), foam dry chemical, CO₂, earth or sand.

Section 4: Emergency and First Aid Procedures

Ingestion: Not expected to be an ingestion problem. No first aid procedures are required.
Inhalation: If any symptoms as described in this document occur, move the person to fresh air. If any of these effects continue, see a doctor.
Skin: No first aid are required. Wash thoroughly with soap and water. Remove and wash contaminated clothing

Eye: No first aid are required. However, as a precaution, flush eyes with water for at least 15 minutes. Remove contact lenses if worn.

Section 5: Health Hazard Information

Toxic/Hazardous Ingredients: None known
Permissible Concentration of Vapors in Air: Not applicable
Effects of Chronic Overexposure: No data available
Effects of Acute Overexposure: Eye and skin irritant

Section 6: Spill, Leak, and Disposal Procedures

In Case of Spill or Leak: This material is not expected to present any environmental problem. Clean up spills immediately, observing precautions in Section 7.
Waste Disposal Method: Place contaminated material in disposable containers and dispose in accordance with all applicable federal, state and local regulations.

Section 7: Protection Information

Respiratory Protection: None required if good ventilation is maintained.
Ventilation: Mechanical.
Protective Gloves: Solvent-resistant rubber of plastic.
Eye Protection: Chemical safety goggles.
Other Protective Equipment: Neoprene protective-type apron.

Section 8: Special Precautions

Precautions to be Taken in Handling and Storing: Store between 40°F and 120°F.

DISCLAIMER: The information contained herein is based upon data available to us and reflects our best professional judgment. Since it is impossible to anticipate the conditions under which our products may be used, we cannot guarantee that the recommendations will be adequate for individuals and situations. Each user of this product should determine the suitability of the product for his particular purpose and should comply with all environmental regulations. Our goal is to manufacture products with zero or minimum hazardous exposure. Our products are improved daily as up-to-date information and research is received from our suppliers to use products with less or no hazards exposure. Please feel free to contact our office for current information.