

ROAD BINDER LIQUID MATERIAL DATA SHEET (MSDS)

SECTION 1 – PRODUCT IDENTIFICATION

Product Name and Synonyms

Road Binder Liquid; Ammonium Lignosulfonate (~ 50% solids)
(Product may be diluted with water at 1:1 ratio during application)

CAS Name and Number:

Mixture (see Section 10)

Chemical Family:

Lignin

Chemical Formula:

Unknown

Manufacturer's Name and Address

Neucel Specialty Cellulose, Inc.
P.O. Box 2000
Port Alice, B.C. V0N 2N0
Phone: 250-284-3331
Fax: 250-284-7715

Emergency Telephone Number

1-(613)996-6666, Canutec

SECTION 2 – HAZARDOUS INGREDIENTS

<u>COMPONENT</u>	<u>% WEIGHT OR VOL</u>	<u>TWA UNITS</u>	<u>STEL UNITS</u>
None			

SECTION 3 – PHYSICAL PROPERTIES

Appearance and Odor: Dark brown viscous liquid with slight odor

Molecular Weight: Unknown

Boiling Point (°F): Around 212 °F

Freezing Point (°F): Around 25 °F

Vapor Pressure (MM of Mercury): Water (Approx. 7 – 8)

Specific Gravity (Water = 1): Approx. 1.25

Vapor Density (Air = 1): Not Known

% Volatile (By Weight): Approx. 52% (water)

pH: Approx. 5 - 7

Solubility in Water: Soluble

Evaporation Rate (Butyl Acetate = 1): Not Known

SECTION 4 – FIRE AND EXPLOSION DATA

Flash Point: None

Fire Extinguishing Media: Water or CO₂

Flammable Limits (% by Volume): Lower: Not Applicable

Upper: Not Applicable

Special Fire fighting procedure & Equipment: Normal

Unusual Fire and Explosion Hazards: None

SECTION 5 – REACTIVITY DATA

Stability: Stable

Condition to Avoid: Addition of strong alkali could result in release of ammonia

Incompatibility (Materials to Avoid): Strong oxidizers and strong alkali

Hazardous Decomposition Product: Will not decompose under normal conditions

Hazardous Polymerization: Will not occur

Conditions to Avoid: None Known

SECTION 6 – HEALTH HAZARD INFORMATION

Exposure from Routine Use: None known

Effects of Over Exposure: None known

Probable Routes of Exposure: Skin, eyes

Emergency First Aid Procedures:

Eye Contact: Rinse immediately with water. Remove contact lenses; flush eyes with water. Consult a physician if necessary.

Skin contact: Wash skin with soap and water. Seek medical attention if irritation persists. Launder contaminated clothing before re-use.

Inhalation: Move to fresh air.

Ingestion: Rinse mouth. Immediately dilute by drinking large quantities of water. After dilution, induce vomiting. Seek immediate medical attention. Never give anything by mouth to an unconscious person.

SECTION 7 – TOXICITY DATA

Oral: This material is not toxic when administered orally to rats

Dermal: This material is not an irritant when applied to the skin of rabbits

Inhalation: Not tested as a liquid. Four-hour exposure of rats to 198 mg/m³ of dust has resulted in neither mortality nor observable signs of toxicity.

Carcinogenicity: Not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.

Other Pertinent Data: This material is not an eye irritant when applied (in a 40% solution) to the eyes of rabbits.

SECTION 8 – PREVENTIVE MEASURES

Personal Protective Equipment:

Protective Gloves: Rubber gloves recommended

Eye Protection: Goggles recommended

Respiratory Protection (Specify): NIOSH – approved sulfur dioxide respirator recommended for hot vapors of solution.

Other Protective Equipment: As appropriate to prevent contact with body.

Ventilation:

Local Exhaust: Not normally required.

Mechanical (General): Not normally required.

Special: None

Other: None

SECTION 9 – SPILL, LEAK AND DISPOSAL PROCEDURES

Waste Disposal Methods: Customary plant procedures for industrial waste treatment.

Clean Water Act Requirements: None known

Resource Conservation and Recovery Act (RCRA) Requirements: None known

SECTION 10 – REGULATORY INFORMATION

TDG: Non-regulated. Lignosulfonic Acid, Ammonium Salt

Proper Shipping Name: None

Hazard Class: None

Label Required: None

Identification No.: None

Other Pertinent Information: None

SECTION 11 – SPECIAL PRECAUTIONS

Precautions to be taken in Handling and Storing:

This material is biodegradable. Use caution when opening unvented containers of water solutions. Microbial activity may cause pressure accumulation.



Other Precautions: None known.

Registration / Certifications: None

PREPARED BY : Stephen Sam
EFFECTIVE DATE: July 5, 2004
REVIEWED BY : Khalid S. Jasim
REVIEW DATE : May 27, 2010

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