



FRANCIS DRILLING FLUIDS, LTD.

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Trade Name(s): Lignite or Super Lig

Generic Name(s):

Chemical Name(s): Naturally occurring North Dakota origin Lignite

Francis Drilling Fluids, LTD.
P.O. Box 1694
Crowley, LA 70527-1694

Emergency/Telephone No.: 800-960-6610
337-783-8685
Hazardous Materials No.: 800-255-3924
Poison Control Center No.: 800-256-9822

II. HAZARDOUS INGREDIENTS

Ingredient	CAS No.	%	Hazard
Trace amounts of Silica Dust			

III. NFPA/HMIS HAZARD IDENTIFICATION SYSTEM

0=LEAST 1=SLIGHT 2=MODERATE 3=HIGH 4 =EXTREME

Health: 0

Fire: 1

Reactivity: 0

IV. PHYSICAL DATA

Boiling Point (°F): NA	Specific Gravity (H ₂ O=1): 1.52
Vapor Pressure (mm. Hg): Not Available	Melting Point: ND
Vapor Density (Air = 1): Not Available	Evaporation Rate: (Butyl Acetate = 1): Not Available
Solubility in Water: Not Appreciable	pH: (1%) 4.5
Density (at 20° C):	Odor: Odorless
Appearance: Dark Brown or Black Powder	

V. FIRE AND EXPLOSION DATA

Flash Point: Not Available	Flammable Limits: LEL: ND UEL: ND
Special Fire Fighting Procedures: None Known	
Unusual Fire and Explosion Hazards: None Known	
Extinguishing Media: Water, CO ₂ , foam	

VI. REACTIVITY

LIGNITE OR SUPER LIG

Stability: Stable
Hazardous Polymerization: Will Not Occur
Incompatibility: Strong oxidizing agents
Hazardous Decomposition: Not available

VII. HEALTH HAZARD INFORMATION

Routes of Exposure and Effects: Entry into body is not expected when observing standard industrial hygiene procedures.
Skin: None reported.
Eyes: None reported.
Inhalation: None reported.
Ingestion: None reported.
Permissible Exposure Limits: (for air contaminants) ND
OSHA PEL (8hr. TWA): None established
ACGIH TLV: None established
Carcinogenicity:

Listed By NTP: Not Listed	Listed By: IARC: Not Listed	Listed By OSHA: Not Listed
Acute Oral LD50:	Acute Dermal LD50:	Aquatic Toxicology LC50:

Emergency and First Aid Procedures:
Skin: None required.
Eyes: Flush eyes with clear water.
Ingestion: None required.
Inhalation: None required.
Additional Health Hazard Information:

VIII. HANDLING AND USE PRECAUTIONS

Steps to be Taken if Material is Released or Spilled: Sweep up into container, recycle if possible.
Waste Disposal Methods: Product should be disposed of in accordance with applicable local, state and federal regulations.
Handling and Storage Precautions: Store product in sealed container or bag.

IX. INDUSTRIAL HYGIENE CONTROL MEASURES

Ventilation Requirements:
Respirator: OSHA approved respirator is suggested
Eye Protection: Safety glasses
Gloves: Gloves
Other Protective Clothing or Equipment:

X. SPECIAL PRECAUTIONS

Avoid direct contact with eyes, skin, and mouth. Avoid breathing heavy concentrations of dust, avoid spillage as floors may become slippery.

XI. ENVIRONMENTAL/SAFETY REGULATION

DEPARTMENT OF TRANSPORTATION

Shipping Name: Non Hazardous

Hazard Class: None

Hazardous Substance: None

Cautionary Labeling: None

NA=Not Applicable; ND=Not Determined or No Data

Date Prepared: June 14, 1995

File Name: lignite

The data presented is true and correct to the best of our knowledge and belief; however, neither seller nor preparer make any warranties, express or implied, concerning the information presented. The user is cautioned to perform his own hazard evaluation and to rely upon his own determinations.