FRANCIS DRILLING FLUIDS, LTD.

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Trade Name(s): Ven-Lube II

Generic Name(s):

Chemical Name(s): Ven-Lube II (Chemical Family Modified Cellulose)

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
Hydrochloric Acid	7647-01-0		
Mineral Oil (chemical neutralized middle distillate petroleum oil)			

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): ND	Specific Gravity (H_20=1): ND
Vapor Pressure (mm. Hg): ND	Melting Point: ND
Vapor Density (Air = 1): ND	Evaporation Rate: (BU AC = 1) NA
Solubility in Water: Dispersible in water, Partially soluble in oil	pH: 2.0-3.0 (5% by weight in water)
Density (lb/cu ft): Uncompacted 17, compacted 27	Odor: Odorless
Appearance: Brown fibrous solid	

V. FIRE AND EXPLOSION DATA

Flash Point: Not known	Flammable Limits: LEL: ND UEL: ND

Special Fire Fighting Procedures: Minimize breathing gases, vapor, fumes or decomposition products. Wear self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: None known

Extinguishing Media: Water, foam, dry chemical, or carbon dioxide

VI. REACTIVITY

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatibility: Strong oxidants, active metals such as potassium, sodium, calcium, powdered aluminum, zinc, magnesium.

Hazardous Decomposition: Hydrogen chloride released. Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products may form in the case of incomplete powdered aluminum, zinc, magnesium.

VII. HEALTH HAZARD INFORMATION

Routes of Exposure and Effects:

Skin: Irritation with possible redness from prolonged exposure.

Eyes: May cause irritation. May result in reduced vision upon prolonged contact.

Inhalation: May cause irritation to nose, throat, and lungs, May be corrosive to mucous membranes.

Ingestion: None known

Permissible Exposure Limits: (for air contaminants)

OSHA PEL (8hr. TWA):
Hydrochloric Acid; 7 mg/m3
Mineral Oil; 500 ppm

ACGIH TLV:
Hydrochloric Acid; 7 mg/m3

Carcinogenicity: Not Listed as a Carcinogen or Potential Carcinogen

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: Wash thoroughly with soap and water.

Eyes: Irrigate eyes with water for at least 15 minutes. If condition persists, contact physician.

Ingestion: Drink large amounts of water. Do not induce vomiting.

Inhalation: Remove to fresh air. Administer oxygen if breathing is difficult. If difficulty persists, see physician.

Additional Health Hazard Information:: Chronic Effects of Overexposure; Increased susceptibility to some long term diseases has been reported on long-term respiratory exposure to similar fibers. May produce dermatitis on repeated prolonged exposure.

Interim results from a lifetime mouse skin painting study with the mineral oil in this product show that after 25 months on test, 8 mice of an original group of 50 have developed skin tumors, of which 5 appear to be cancerous. The substance was painted on the shaved backs of mice three times a week for the lifetime of the animals with no washing between applications. All tumors noted appeared during the latter portion of the typical 2 year lifespan of the animals. In view of these findings, there may be a potential risk of skin cancer to humans from prolonged or repeated skin contact with this product in the absence of good personal hygiene.

VIII. HANDLING AND USE PRECAUTIONS

Steps to be Taken if Material is Released or Spilled: Pick up with shovel or vacuum avoiding dusty conditions. Place in suitable container for disposal.

Waste Disposal Methods: Certified landfill or incineration under conditions that meet all applicable federal, state and local regulations.

Handling and Storage Precautions: Avoid prolonged contact with skin. Do not get in eyes. Avoid breathing dust. Wash before eating, smoking or using toilet facilities. Launder contaminated clothing before reuse.

IX. INDUSTRIAL HYGIENE CONTROL MEASURES

Ventilation Requirements: Use local exhaust under dusty conditions.

Respirator: Use approved respirator for dusts under dusty conditions

Eye Protection: NA

Gloves: Use chemical resistant gloves, if needed, to avoid prolonged or repeated skin contact.

Other Protective Clothing or Equipment: Eye bath

X. SPECIAL PRECAUTIONS

Avoid prolonged contact with skin. Do not get in eyes. Avoid breathing dust. Wash before eating, smoking or using toilet facilities. Launder contaminated clothing before reuse.

XI. ENVIRONMENTAL/SAFETY REGULATION

EPA Registry Number: None
In TSCA Inventory: Yes
Covered under CERCLA or SUPERFUND Legislation: No
Environmental Toxicity Data: None known

DEPARTMENT OF TRANSPORTATION

Shipping Name: Not regulated	Hazard Class: Nonhazardous
Hazardous Substance: NA	
Cautionary Labeling: None	
NA=Not Applicable; ND=Not Determined or No Data	Date Prepared: June 15, 1995

File Name: venlube