



FRANCIS DRILLING FLUIDS, LTD.

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Trade Name(s): FDF EML-I

Generic Name(s):

Chemical Name(s): Proprietary Mixture

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.	%	

III. NFPA/HMIS HAZARD IDENTIFICATION SYSTEM

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

Health: 2

Fire: 3

Reactivity: 1

IV. PHYSICAL DATA

Boiling Point (°F): ND

Specific Gravity (H₂O=1): 1.03

Vapor Pressure (mm. Hg): 1.0

Melting Point: ND

Vapor Density (Air = 1): 29.92

Evaporation Rate: ND

Solubility in Water: Insoluble

pH: ND

Density (at 20° C): ND

Odor: Aromatic

Appearance: Thick black liquid

Viscosity: 195-240 CPS

V. FIRE AND EXPLOSION DATA

Flash Point: 125°F - 145°F

Flammable Limits: LEL: ND UEL: ND

Special Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing. Move containers from fire area if it can be done without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Stay away from ends of containers.

Unusual Fire and Explosion Hazards: This material may burn, but does not readily ignite.

Extinguishing Media: Water spray, Dry chemical, foam.

VI. REACTIVITY

Stability: Stable, but avoid open flames, sparks.

Hazardous Polymerization: No polymerization.

Incompatibility: Strong oxidizers.

Hazardous Decomposition: Oxides of carbon.

VII. HEALTH HAZARD INFORMATION

Routes of Exposure and Effects:

Skin: Mild irritant.

Eyes: Mild irritant.

Inhalation: Mild irritant.

Ingestion: Mild irritant.

Permissible Exposure Limits: (for air contaminants) ND

OSHA PEL (8hr. TWA): ND

ACGIH TLV: ND

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: Wash with soap and water. Call a physician if irritation develops.

Eyes: Flush immediately with large amounts of water for at least 15 minutes and call a physician.

Ingestion: Harmful or fatal if swallowed. Do not induce vomiting, seek medical assistance immediately.

Inhalation: If affected remove to fresh air. If not breathing, give artificial respiration.

Additional Health Hazard Information::

Remove all contaminated clothing and launder before rewearing.

VIII. HANDLING AND USE PRECAUTIONS

Steps to be Taken if Material is Released or Spilled: Absorb with inert material and place in D.O.T. approved container for disposal in accordance with local, state and federal regulations. Remove all sources of flame or heat.

Waste Disposal Methods: Contact an EPA or State Approved Disposal Facility.

Handling and Storage Precautions: Keep containers tightly closed, store in cool, dry place. Between 40°F - 80°F.

IX. INDUSTRIAL HYGIENE CONTROL MEASURES

Ventilation Requirements: Local exhaust and general exhaust.

Respirator: None required under normal conditions. Use SCBA when entering tanks.

Eye Protection: Chemical safety goggles/ safety glasses.

Gloves: Chemically resistant/non-slip.

Other Protective Clothing or Equipment: Coveralls, splash aprons, eye wash, and safety shower.

X. SPECIAL PRECAUTIONS

Clean up spills promptly, wash contaminated clothing.

XI. ENVIRONMENTAL/SAFETY REGULATION

This document is prepared pursuant to the OSHA Hazardous Communication Standard (29 CFR 1910.1200). Also, other substance not deemed "Hazardous MSDS may be listed.

DEPARTMENT OF TRANSPORTATION

Shipping Name: Not restricted

Hazard Class: Nonhazardous

Hazardous Substance: NA

Cautionary Labeling: None required

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

Date Prepared: July 27, 1995

File Name: FDFEML-I

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.