



# FRANCIS DRILLING FLUIDS, LTD.

## MATERIAL SAFETY DATA SHEET

### I. PRODUCT IDENTIFICATION

Trade Name(s): FDF HEC-10

Generic Name(s): Proprietary

Chemical Name(s): Hydroxyethylcelluouse in non-toxic oil solution.

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.	%	
None			

### III. NFPA/HMIS HAZARD IDENTIFICATION SYSTEM

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

Health: 1

Fire: 0

Reactivity: 0

### IV. PHYSICAL DATA

Boiling Point (°F): >270°C	Specific Gravity (H <sub>2</sub> O=1): 1.07 - 1.08
Vapor Pressure (mm. Hg): NA	Melting Point: ND
Vapor Density (Air = 1): NA	Evaporation Rate: <1
Solubility in Water: Dispersible	pH: NA
Density (at 20° C): NA	Odor: Bland odor
Appearance: Light amber with suspended cellulose	

## V. FIRE AND EXPLOSION DATA

Flash Point: >350°F

Flammable Limits: LEL: NA UEL: NA

Special Fire Fighting Procedures: Water may be ineffective since product is oil soluble, product will somewhat float to surface.

Unusual Fire and Explosion Hazards: None

Extinguishing Media: Dry chemical, foam or CO2.

## VI. REACTIVITY

Stability: Stable

Hazardous Polymerization: No polymerization.

Incompatibility: Strong oxidizers.

Hazardous Decomposition: None known.

## VII. HEALTH HAZARD INFORMATION

Routes of Exposure and Effects:

Skin: ND

Eyes: ND

Inhalation: ND

Ingestion: ND

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: Consult physician.

Inhalation: If affected remove to fresh air.

Additional Health Hazard Information::

### VIII. HANDLING AND USE PRECAUTIONS

Steps to be Taken if Material is Released or Spilled: Product is similar to disposal of vegetable oils. Prevent further spillage by diking. Residual can be re-used if not contaminated. Material absorbed can be contained and disposed as stated below.

Waste Disposal Methods: Incinerations or approved landfill. Dispose of in accordance with all applicable Federal, State and Local regulations.

Handling and Storage Precautions: Normal precautions common to good manufacturing practices should be followed in handling and storage. Care should be taken when handling very hot material.

### IX. INDUSTRIAL HYGIENE CONTROL MEASURES

Ventilation Requirements: Local exhaust satisfactory.

Respirator: Not applicable unless exposed to burning product; then use approved NIOSH respirator.

Eye Protection: Safety glasses or goggles recommended for prolonged exposure.

Gloves: Rubber or neoprene gloves.

Other Protective Clothing or Equipment: Personal hygiene should be strongly encouraged so that all clothing items which contact skin are changed daily. Standard work clothes. Do not allow extremely hot material to contact skin as with any oil of this type.

### X. SPECIAL PRECAUTIONS

Do not allow extremely hot material to contact skin as with any oil of this type.

### XI. ENVIRONMENTAL/SAFETY REGULATION

TSCA: Components listed and reported with the provisions outlined in Toxic Substances Control Act, 15 U.S.C. Not listed on 40 CFR 372.45 Supplier Notification Requirement Listing (7-1-89) Edition.

### 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 25, 1995

File Name: FDFHEC-10

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.