



FRANCIS DRILLING FLUIDS, LTD.

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Trade Name(s): XUS 50165.04L Experimental Drilling Fluid

Generic Name(s):

Chemical Name(s): Proprietary Ingredients

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
Proprietary Ingredients: Mixed metal hydroxide Inorganic salt Water-soluble organic compound (redispersant) Water This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not "Hazardous" per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard. Dow Chemical U.S.A. "Emergency Phone 1-517-636-4400".			

III. NFPA/HMIS HAZARD IDENTIFICATION SYSTEM

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

Health: 1

Fire: 0

Reactivity: 1

IV. PHYSICAL DATA

Boiling Point (°F): Some decomposition @ 370°F	Specific Gravity (H ₂ O=1): 0.6 (35-40 lbs/ft ³)
Vapor Pressure (mm. Hg): 3 mm@ 20C redispersant	Melting Point: ND
Vapor Density (Air = 1): ND	Evaporation Rate: ND
Solubility in Water: Solids insoluble	pH: ND

Density (at 20° C): ND	Odor: Essentially odorless	
Appearance: White powder		
V. FIRE AND EXPLOSION DATA		
Flash Point: None below 370°F	Flammable Limits:	LEL: ND UEL: ND
Special Fire Fighting Procedures: Wear positive pressure self-contained breathing apparatus.		
Unusual Fire and Explosion Hazards: None. No dust explosion hazard.		
Extinguishing Media: Non combustible		
VI. REACTIVITY		
Stability: Stable to >370°F (dr solids). Differential thermal analysis shows exotherm at 347°C peaking at 370°C		
Hazardous Polymerization: Will not occur.		
Incompatibility: Acids, strong oxidizing agents (sodium hypochlorite, hypochlorous acid, potassium permanganate).		
Hazardous Decomposition: Aldehydes (thermal).		
VII. HEALTH HAZARD INFORMATION		
Routes of Exposure and Effects:		
Skin: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. The LD50 for skin absorption in rabbits is >2000 mg/kg.		
Eyes: May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.		
Inhalation: At room temperature, exposures to vapors are unlikely due to physical properties; higher temperatures may generate vapor levels sufficient to cause irritation and other effects, (based on redispersant component).		
Ingestion: Single dose oral toxicity is extremely low. The oral LD50 for rats is >5000 mg/kg. No hazards anticipated from swallowing small amounts incidental to normal handling operations.		
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 off in flowing water or shower.		
Eyes: Flush eyes with plenty of water.		
Ingestion: No adverse effects anticipated by this route of exposure incidental to proper industrial handling.		
Inhalation: Remove to fresh air if effects occur. Consult a physician.		
Additional Health Hazard Information::		
Exposure Guideline(s): Contains proprietary ingredient for which the exposure guideline has been omitted.		

Systemic (other target organ) effects: Repeated excessive oral exposures to a major component (redispersant) may cause kidney and liver effects, increased fat levels in blood, and/or gastrointestinal irritation.

Cancer information: Did not cause cancer in long-term animal studies (redispersant).

Teratology (Birth defects): Salts of one metal (present as mixed metal hydroxide), when administered orally to laboratory animals in high doses during pregnancy and to offspring after birth, affected growth and caused developmental toxicity in the offspring.

Mutagenicity (Effects on Genetic Material): Results of in vitro ('test tube') mutagenicity tests have been negative.

VIII. HANDLING AND USE PRECAUTIONS

Steps to be Taken if Material is Released or Spilled: Shovel into suitable containers.

Waste Disposal Methods: Small amounts: Wash away with water. Large amounts: Use landfill when permitted. Comply with Federal, State, and Local regulations.

Handling and Storage Precautions: Exposure guideline(s): Contains proprietary ingredient for which the exposure guideline has been omitted.

IX. INDUSTRIAL HYGIENE CONTROL MEASURES

Ventilation Requirements: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

Respirator: For most conditions, no respiratory protection should be needed; however, if handling at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator.

Eye Protection: Use safety glasses.

Gloves: None

Other Protective Clothing or Equipment: No precautions other than clean body-covering clothing should be needed.

X. SPECIAL PRECAUTIONS

XI. ENVIRONMENTAL/SAFETY REGULATION

SARA Title III Inventory - No

WHMIS - This product is not a "Controlled Product" under WHMIS

The Transportation of Dangerous Goods Act (TDGA) classification for this product is: Not regulated

DEPARTMENT OF TRANSPORTATION

Shipping Name: Not regulated

Hazard Class: Nonhazardous

Hazardous Substance: None

Cautionary Labeling: None

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

Date Prepared: August 2, 1995

File Name: XUS 50165.04L

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.

XUS 50165.04L EXPERIMENTAL DRILLING FLUID