



# FRANCIS DRILLING FLUIDS, LTD.

## MATERIAL SAFETY DATA SHEET

### I. PRODUCT IDENTIFICATION

Trade Name(s): FDF Barite

Generic Name(s): Barium Sulphate, Barite, Barytes

Chemical Name(s):

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
Silica (quartz)	14808-60-7	<5.0	Low concentration of crystalline silica in the form of quartz, cristobalite, and tridymite may be present. SARA 313 listed chemical
Barium Sulfate	7727-43-7	100	

### 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): NA

Specific Gravity (H<sub>2</sub>O=1): 4.2-4.25

Vapor Pressure (@20°C): NA

Melting Point: 2876 F

Vapor Density (Air = 1): NA

Evaporation Rate: NA

Solubility in Water: Insoluble

pH: NA

Bulk Density: 145 lb/ft<sup>3</sup>

Odor: Odorless

Appearance: White Solid

### V. FIRE AND EXPLOSION DATA

Flash Point: NA

Flammable Limits:

LEL: ND

UEL: ND

Special Fire Fighting Procedures: Noncombustible

Unusual Fire and Explosion Hazards: None

Extinguishing Media: Compatible with carbon dioxide, dry or foam chemical, water safe to use.

**VI. REACTIVITY**

Stability: Stable

Hazardous Polymerization: Will not polymerize

Incompatibility: Aluminum

Hazardous Decomposition: Decomposes >3632 F

**VII. HEALTH HAZARD INFORMATION**

Routes of Exposure and Effects:

Skin: Irritant, short term exposure may result in dermatitis.

Eyes: Irritant

Inhalation: Acute effects (Short term) exposure to barite dust may result in lacrimation, coughing, etc; however normal precautions for nuisance dusts are adequate to safeguard health. Chronic effects (Long term) exposure possible effect from breathing dust over extended time may result in baritosis. Soluble impurities can lead to toxic reactions.

Ingestion: Seek medical attention.

Permissible Exposure Limits: (for air contaminants) N/A

OSHA PEL (8hr. TWA): Silica - 0.1 mg/m<sup>3</sup>; Barium Sulfate - 10 mg/m<sup>3</sup>

ACGIH TLV: Silica - 0.1 mg/m<sup>3</sup>; Barium Sulfate - 10 mg/m<sup>3</sup>

Carcinogenicity: Intrapleural - Rat, TDLo 200 mg/kg. IARC 1987 concludes that there is limited evidence of the carcinogenicity of crystalline silica to humans. IARC Classification 2A.

Listed By NTP: Not listed	Listed By: IARC: Listed	Listed By OSHA: Not Listed
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Acute Oral LD50:	Acute Dermal LD50:	Aquatic Toxicology LC50:
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Emergency and First Aid Procedures:

Skin: Wash with soap and water. Launder cloths prior to reuse.

Eyes: Flush with soap and water. Launder clothes prior to reuse. If irritation persists, contact physician.

Ingestion: Drink water to dilute. Induce vomiting.

Inhalation: Remove to fresh air.

Additional Health Hazard Information: Ordinary measures of personal hygiene should be observed. Sensitive individuals should avoid further contact. If irritation persists, seek medical attention.

**VIII. HANDLING AND USE PRECAUTIONS**

Steps to be Taken if Material is Released or Spilled: Contain spill; sweep, shovel or vacuum material into waste container. Rebag if possible. Recycle or sell if possible.

Waste Disposal Methods: Barite is nonhazardous according to RCRA standards. Disposal should be in accordance with any applicable state or local regulations dealing with nonhazardous chemicals.

Handling and Storage Precautions: Store in dry area. Keep dust to a minimum.

## IX. INDUSTRIAL HYGIENE CONTROL MEASURES

Ventilation Requirements: Supply adequate natural or mechanical ventilation

Respirator: Use an approved NIOSH/MSHA respirator.

Eye Protection: Wear chemical safety glasses, or goggles. Insure proper fit.

Gloves: Cloth, neoprene, or rubber.

Other Protective Clothing or Equipment: Wear long, protective clothing.

## X. SPECIAL PRECAUTIONS

Warning for nuisance dust and silica adequate.

## XI. ENVIRONMENTAL/SAFETY REGULATION

SARA Title 111; Acute, Chronic

FDA: Food-contact surface component 21 CFR 175.300(b)(3); 21 CFR 177.2600 (c)(4)

Barium sulfate contains 58.84% Barium a SARA 313 listed chemical

## DEPARTMENT OF TRANSPORTATION

Shipping Name: Not restricted

Hazard Class: Nonhazardous

Hazardous Substance: NA

Cautionary Labeling: NA

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

Date Prepared: June 13, 1995

File Name: FDF Barite

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.