



# FRANCIS DRILLING FLUIDS, LTD.

## MATERIAL SAFETY DATA SHEET

### I. PRODUCT IDENTIFICATION

Trade Name(s): Calcium Bromide Solution

Generic Name(s):

Chemical Name(s): Calcium Bromide/Water 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.	%	Hazard
Calcium Bromide	7789-41-5		

### III. NFPA/HMIS HAZARD IDENTIFICATION SYSTEM

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

Health: 0

Fire: 0

Reactivity: 0

### IV. PHYSICAL DATA

Boiling Point (°F): 119°C/246°F	Specific Gravity (H <sub>2</sub> O=1): 1.83 (max.)
Vapor Pressure (mm. Hg): 16mm Hg @ 20C/68F	Melting Point: ND
Vapor Density (Air = 1): ND	Evaporation Rate: ND
Solubility in Water: Miscible	pH: ND
Density (at 20° C): 15.3 lbs/gal (max.)	Odor: Slight odor
Appearance: Clear liquid	

### V. FIRE AND EXPLOSION DATA

Flash Point: Non-flammable	Flammable Limits:      LEL: NA      UEL: NA
Special Fire Fighting Procedures: Avoid breathing fumes.	
Unusual Fire and Explosion Hazards: None known. Conditions to avoid: Extremely high heat.	
Extinguishing Media: None required.	

**CALCIUM BROMIDE SOLUTION**

## VI. REACTIVITY

Stability: Stable

Hazardous Polymerization: Will not occur.

Incompatibility: Strong acids and strong oxidizing agents

Hazardous Decomposition: Includes bromide.

## VII. HEALTH HAZARD INFORMATION

Routes of Exposure and Effects:

Skin: Repeated or prolonged skin contact may cause irritation and superficial burns.

Eyes: Expected to be an eye irritant.

Inhalation: None

Ingestion: None

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 contaminated areas with soap and water.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Ingestion: If swallowed, give two glasses of water.

Inhalation: If inhaled, remove to fresh air.

Additional Health Hazard Information::

If repeated or prolonged skin contact or contamination of clothing is likely, protective clothing should be worn.

## VIII. HANDLING AND USE PRECAUTIONS

Steps to be Taken if Material is Released or Spilled: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Take up small spills with dry chemical absorbent. Large spills may be taken up with pump or vacuum and finished off with dry chemical absorbent. May require excavation of contaminated soil.

Waste Disposal Methods: To the best of FDF's knowledge, this product is not regulated by CERCLA/RCRA as a hazardous waste or material. However, this product has not been tested for the toxicity characteristic via the Toxicity Characteristic Leaching Procedure. Therefore, it may be disposed of as an industrial waste in a manner acceptable to good waste management practice and in compliance with applicable local, state and federal regulations.

Handling and Storage Precautions: No special storage required.

**IX. INDUSTRIAL HYGIENE CONTROL MEASURES**

Ventilation Requirements: Mechanical ventilation recommended.

Respirator: None under normal conditions.

Eye Protection: Chemical goggles.

Gloves: Resistant to chemical penetration.

Other Protective Clothing or Equipment: If repeated or prolonged skin contact or contamination of clothing is likely, protective clothing should be worn.

**X. SPECIAL PRECAUTIONS**

**XI. ENVIRONMENTAL/SAFETY REGULATION**

TSCA: This material is in compliance with the Toxic Substances Control Act (15 USC 2601 - 2629).

Hazard Categories for SARA 311/312 reporting are indicated below:

Health	Immediate (Acute).....	Yes
Health	Delayed (Chronic).....	No
Physical	Fire.....	No
Physical	Sudden Release of Pressure.....	No
Physical	Reactive.....	No
Physical	Nuisance Mist/Dust Only.....	No

**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: July 31, 1995

File Name: Calcium Bromide Solution

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.