



FRANCIS DRILLING FLUIDS, LTD.

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Trade Name(s): Calcium Chloride

Generic Name(s):

Chemical Name(s): Calcium Chloride

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 Chloride, as nuisance particulates	010043-52-4	>97	Skin Hazard, Eye Hazard, Nuisance Particulate
Strontium Chloride	10476-85-4	1-2	

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): >1500	Specific Gravity (H ₂ O=1): 2.15
Vapor Pressure (mm. Hg): NA	Melting Point: 1421
Vapor Density (Air = 1): NA	Evaporation Rate: <1
Solubility in Water: Appreciable	pH: 9.4
Density (at 20° C): Bulk 67.57 lb/ft ³	Odor: Odorless
Appearance: Off -white powder	

V. FIRE AND EXPLOSION DATA

Flash Point: NA	Flammable Limits: LEL: NA UEL: NA
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Special Fire Fighting Procedures: Gently apply water spray to absorb any generated heat and to cool nearby containers exposed to fire. Wear positive pressure, full face-piece self-contained breathing apparatus and proper protective clothing when fighting surrounding fires.

Unusual Fire and Explosion Hazards: None Anticipated

Extinguishing Media: Water, carbon dioxide, dry or chemical foam

VI. REACTIVITY

Stability: Stable , avoid moisture

Hazardous Polymerization: Will not occur

Incompatibility: Avoid storage with metals such as aluminum and its alloys and yellow brass.

Hazardous Decomposition: Product will not readily decompose.

VII. HEALTH HAZARD INFORMATION

Routes of Exposure and Effects: Chronic: Calcium chloride is an experimental tumorigen and mutagen. Prolonged exposure may cause dermatitis and/or an allergic respiratory or skin reaction characterized by shortness of breath or topical skin irritation.

Skin: Acute; May cause skin irritation or burns.

Eyes: Acute; May cause severe irritation with corneal injury.

Inhalation: May cause irritation to upper respiratory tract.

Ingestion: Seek medical attention.

Permissible Exposure Limits: (for air contaminants)

OSHA PEL (8hr. TWA): 15 mg/m³ Total Dust

ACGIH TLV: 10 mg/m³ Total Dust

Carcinogenicity:

Listed By NTP: Not Listed

Listed By: IARC: Not Listed

Listed By OSHA:

Acute Oral LD50:

Acute Dermal LD50:

Aquatic Toxicology LC50:

Emergency and First Aid Procedures:

Skin: Wash thoroughly with soap and water. Remove contaminated clothing and shoes. Contact a physician if irritation persists.

Eyes: Hold eyelids apart and flush with water for at least 15 minutes. Contact a physician if irritation persists.

Ingestion: Drink water to dilute. Call physician if upset occurs. Only induce vomiting at the direction of a physician, never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air, if not breathing, give artificial respiration, if breathing is difficult, give oxygen.

Additional Health Hazard Information:

VIII. HANDLING AND USE PRECAUTIONS

Steps to be Taken if Material is Released or Spilled: Wear proper protective equipment, contain the spill to prevent runoff. Re-bag and sell if possible. Shovel waste into an suitable waste container, discharge may affect compliance with a facility's water permit. Keep out of waterways and sewers.

Waste Disposal Methods: Product is not hazardous per RCRA criteria or listings as supplied, dispose of in accordance with local, state, and federal regulations, dealing with discharge to waterways or disposal.

Handling and Storage Precautions: CAUTION! Product may irritate eyes, skin, and respiratory tract. Do not get in eyes, or skin or clothing. Always use cool water (Temp <80 °F) when dissolving calcium chloride. Heat is elevated during dissolution.

Store in cool, dry place, keep container tightly closed when not in use. Use with adequate ventilation, wash thoroughly after handling.

IX. INDUSTRIAL HYGIENE CONTROL MEASURES

Ventilation Requirements: Supply mechanical or local exhaust capable or minimizing dust emissions at the point of use.

Respirator: Wear an approved dust respirator or mask in the absence of adequate ventilation.

Eye Protection: Wear chemical goggles when handling, have an eye wash station available.

Gloves: Wear rubber or neoprene gloves to prevent skin contact; Footwear: Use rubber safety boots.

Other Protective Clothing or Equipment: Wear chemical-resistant clothing; heavy exposures may require an apron or coveralls for protection. Launder clothing before reuse. Wash after handling and before meals or breaks.

X. SPECIAL PRECAUTIONS

ENVIRONMENTAL/SAFETY REGULATION

Community Right to Know (SARA Title III Section 311-312)

Immediate (Acute)

DEPARTMENT OF TRANSPORTATION

Shipping Name: Drilling Fluid Compound N.O.S.

Hazard Class: Not Regulated

Hazardous Substance: NA

Cautionary Labeling: NA

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

Date Prepared: June 16, 1995

File Name: Calcium

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.