



FRANCIS DRILLING FLUIDS, LTD.

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Trade Name(s): Perfseal	
Generic Name(s): Calcium Carbonate, Calcite	
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	<3.0	Low concentration of crystalline silica in the form of quartz, cristobalite, and tridymite may be present.
Calcium Carbonate Dust	1317-65-3		

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 ₂ O=1): 2.71
Vapor Pressure (mm Hg): NA	Melting Point: NA
Vapor Density (Air = 1): NA	Evaporation Rate: NA
Solubility in Water: Soluble	pH: ND
Density @ 20° C: ND	Freezing Point: NA
Appearance: White Fine Powder	Odor: None

V. FIRE AND EXPLOSION DATA

Flash Point: NA	Flammable Limits: LEL: ND UEL: ND
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Special Fire Fighting Procedures: None Noted

Unusual Fire and Explosion Hazards: None

Extinguishing Media: Water, CO2, dry or chemical foam are safe.

VI. REACTIVITY

Stability: Stable

Hazardous Polymerization: Will not Occur

Incompatibility: Reacts violently with F2 (Mg + H2)

Hazardous Decomposition: When calcium is burned in air, calcium oxide is formed.

VII. HEALTH HAZARD INFORMATION

Routes of Exposure and Effects:

Skin: None reported.

Eyes: May cause irritation.

Inhalation: None reported.

Ingestion: None reported.

Permissible Exposure Limits: (for air contaminants) ND

OSHA PEL (8hr. TWA): ND

ACGIH TLV: ND

Carcinogenicity:

Listed By NTP:	Listed By: IARC: ND	Listed By OSHA: ND
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Acute Oral LD50: 5,000 mg/kg	Acute Dermal LD50:	Aquatic Toxicology LC50:
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Emergency and First Aid Procedures:

Skin: None required.

Eyes: Flush with water.

Ingestion: None required.

Inhalation: Move to fresh air.

Additional Health Hazard Information:

VIII. HANDLING AND USE PRECAUTIONS

Steps to be Taken if Material is Released or Spilled: Vacuum or sweep up.

Waste Disposal Methods: Dispose of in accordance with all local, state and federal regulations.

Handling and Storage Precautions:

IX. INDUSTRIAL HYGIENE CONTROL MEASURES

Ventilation Requirements: Supply adequate ventilation.

Respirator: NIOSH approved respirator .	
Eye Protection: Wear chemical safety glasses.	
Gloves: Working Gloves	
Other Protective Clothing or Equipment: Apron	
X. SPECIAL PRECAUTIONS	
XI. ENVIRONMENTAL/SAFETY REGULATION	
DEPARTMENT OF TRANSPORTATION	
Shipping Name: Not Regulated	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: Perfseal

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.