



FRANCIS DRILLING FLUIDS, LTD.

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Trade Name(s): All Attapulgitte Based Products

Generic Name(s): Salt Gel

Chemical Name(s): Hydrous Magnesium Aluminum Silicate - Clay Group Cas #14808-60-7

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
May contain Silica, Crystalline Quartz (respirable)	14808-60-7		

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): More than 1000°F	Specific Gravity (H ₂ O=1): 2.4
Vapor Pressure (mm. Hg): NA	Melting Point: NA
Vapor Density (Air = 1): NA	Evaporation Rate: NA
Solubility in Water: Insoluble	pH: NA
Density (at 20° C): NA	Odor: Earthy odor when wet
Appearance: Off-White to Buff to Tan	

V. FIRE AND EXPLOSION DATA

Flash Point: Non-flammable	Flammable Limits: LEL: NA UEL: NA
Special Fire Fighting Procedures: None	
Unusual Fire and Explosion Hazards: None	

Extinguishing Media: NA

VI. REACTIVITY

Stability: Stable

Hazardous Polymerization: Will not occur.

Incompatibility: None

Hazardous Decomposition: NA

VII. HEALTH HAZARD INFORMATION

Routes of Exposure and Effects:

Skin: None

Eyes: None

Inhalation: May be harmful if inhaled in sufficient quantities. Prolonged exposure may cause a relatively benign lung disease, though there is a risk of the development of massive fibrosis. Repeated and prolonged exposure to respirable crystalline quartz may cause delayed (chronic) lung injury (silicosis). Silicosis is a form of disabling pulmonary fibrosis which can be progressive and may lead to death.

Ingestion: None

Permissible Exposure Limits: (for air contaminants) NA

OSHA PEL (8hr. TWA):

ACGIH TLV: Attapulgite produces a nuisance dust. The ACGIH has established a TLV for nuisance particulates of 10 mg/m³, Total Dust < 1% quartz. If quartz content > 1%, use quartz value of 0.1mg/m³, Respirable dust (1985-1986 edition). Repeated inhalation over extended period of any dust, including Attapulgite, in excess of TLV may result in lung injury.

Carcinogenicity:

Listed By NTP: Yes

Listed By: IARC: Yes

Listed By OSHA: No

Acute Oral LD50:

Acute Dermal LD50:

Aquatic Toxicology LC50:

Emergency and First Aid Procedures:

Skin: Wash with large amounts of water. If irritation persists, seek medical attention.

Eyes: Flush eyes with large amounts of water

Ingestion: Seek medical attention.

Inhalation: Remove to fresh air. For gross inhalation, remove person immediately to fresh air, give artificial respiration as needed, seek medical attention as needed.

Additional Health Hazard Information::

Signs and symptoms of exposure: Undue breathlessness, wheezing, cough and sputum production. Pulmonary function may be reduced by inhalation of respirable crystalline silica. Lung scarring produced by such inhalation may lead to a progressive massive fibrosis of the lung which may aggravate other pulmonary conditions and diseases and which increases susceptibility to pulmonary tuberculosis. Progressive massive fibrosis may be accompanied by right heart enlargement, heart failure, and pulmonary failure. Smoking aggravates the effects of exposure.

VIII. HANDLING AND USE PRECAUTIONS

Steps to be Taken if Material is Released or Spilled: For powdered materials. Use dustless methods (vacuum) and place into closed container for disposal, or flush with water. Do not dry sweep.

Waste Disposal Methods: Material, as shipped, may be disposed of in a sanitary landfill. Spent material should be handled in accordance with local, state and federal regulations.

Handling and Storage Precautions: Avoid unnecessary product agitation to keep dust level as much below TLV as possible.

IX. INDUSTRIAL HYGIENE CONTROL MEASURES

Ventilation Requirements: Local exhaust

Respirator: NIOSH/MSHA approved particulate respirator.

Eye Protection: Wear protective shield (safety glasses) when exposed to dust particles.

Gloves: Optional

Other Protective Clothing or Equipment: None

X. SPECIAL PRECAUTIONS

Avoid creating and breathing dust.

XI. ENVIRONMENTAL/SAFETY REGULATION

DEPARTMENT OF TRANSPORTATION

Shipping Name: Not regulated

Hazard Class: None

Hazardous Substance: NA

Cautionary Labeling: NA

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

Date Prepared: July 20, 1995

File Name: salt gel

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.