



FRANCIS DRILLING FLUIDS, LTD.

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Trade Name(s): XCD Polymer

Generic Name(s): Kelzan XC & Kelzan XCD Polymer, Kelzan D35, Zanflo, Xanco-Frac, KOD85, Xanvis, Xanflood

Chemical Name(s): Xanthan gum (Polysaccharide)

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
Xanthan gum	11138-66-2		None of the components are considered hazardous under OSHA Hazard Communication Regulations (29CFR 1910.1200)

III. NFPA/HMIS HAZARD IDENTIFICATION SYSTEM

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

Health: 0

Fire: 1

Reactivity: 0

IV. PHYSICAL DATA

Boiling Point (°F): NA

Specific Gravity (H₂O=1): 1.5

Vapor Pressure (mm. Hg): NA

Melting Point: NA

Vapor Density (Air = 1): NA

Evaporation Rate: NA

Solubility in Water: Complete

pH: @ 1.0% : 5.4 - 8.6

Density (at 20° C): Bulk density ~ 50 lb/cu. ft.

Odor: Slight odor

Appearance: Light beige

V. FIRE AND EXPLOSION DATA

Flash Point: NA

Flammable Limits: LEL: NA UEL: NA

Special Fire Fighting Procedures: For fires involving this material do not enter without proper protective equipment including self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: In common with most organic materials, this product should be treated as a combustible dust in the finely divided and suspended state. Air-borne dust creates an explosion hazard.

XCD POLYMER

Extinguishing Media: Dry chemical, Water spray, Water fog, CO2, Foam, Sand/earth.

VI. REACTIVITY

Stability: Stable

Hazardous Polymerization: Will not occur.

Incompatibility: Strong oxidizers.

Hazardous Decomposition: Thermal decomposition products may include carbon dioxide and carbon monoxide.

VII. HEALTH HAZARD INFORMATION

Routes of Exposure and Effects:

Skin: Not an irritant. Not a sensitizer.

Eyes: Not an irritant as defined in Consumer Product Safety Commission regulations 16 CFR 1500.42; however, the dry material may cause foreign body irritation in some individuals.

Inhalation: Excessive inhalation of dust impedes respiration due to hygroscopic properties.

Ingestion: None

Permissible Exposure Limits: (for air contaminants)

OSHA PEL (8hr. TWA): ND

ACGIH TVL: 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: Ordinary measures of personal hygiene should be adequate. No harmful effects expected.

Eyes: Flush with plenty of water. If irritation develops, call a physician.

Ingestion: In swallowed essentially non-toxic.

Inhalation: If large quantities have been inhaled, keep airway open as necessary. Symptomatic treatment.

Additional Health Hazard Information::

VIII. HANDLING AND USE PRECAUTIONS

Steps to be Taken if Material is Released or Spilled: Sweep up spilled material and repackage. Hose spill area very thoroughly. The product is slippery when wet.

Waste Disposal Methods: Handle as a nonhazardous material.

Handling and Storage Precautions: Product is slippery when wet. Wash thoroughly after handling. Keep container closed. Exercise caution in the storage and handling of all chemical substances. Use in ventilated area.

IX. INDUSTRIAL HYGIENE CONTROL MEASURES

Ventilation Requirements: Local exhaust.

Respirator: In heavy dust concentrations, a NIOSH approved mask is recommended.

Eye Protection: None required.

Gloves: None required.

Other Protective Clothing or Equipment: Not normally required.

X. SPECIAL PRECAUTIONS

Normal precautions common to good manufacturing practice should be followed in handling and storage. To maintain best product performance, store in a cool, dry place.

XI. ENVIRONMENTAL/SAFETY REGULATION

The ingredients of this product are on the TSCA Chemical Substances Inventory, the Canadian Domestic Substances List and are included in the European Inventory of Existing Commercial Chemical Substances. They are not "toxic" under SARA Title III, nor does the product contain any "toxic" materials in excess of "de minimis concentrations" as defined in 40 CFR 372.38(a).

DEPARTMENT OF TRANSPORTATION

Shipping Name: Not regulated

Hazard Class: Nonhazardous

Hazardous Substance: NA

Cautionary Labeling: None required

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

Date Prepared: August 10, 1995

File Name: XCD Polymer

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.