

HFL - 100

MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT IDENTIFICATION

PRODUCT NAME: **HFL - 100**

NFPA Ratings:

SUPPLIER: DRILLING FLUIDS TECHNOLOGY
P.O. Box 284
BOOKER, TEXAS 79005

Health: 2
Fire: 2
React: 0
0= LEAST to 4= EXTREME

OFFICE: 806-658-4600

FOR EMERGENCIES CONTACT: INFO TRAC

1-800-535-5053

SECTION II. HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS - (CAS Number)	Exposure Limits
Isopropyl Alcohol (67-63-0) 5%	400 PPM
Methanol (67-56-1) 10%	200 PPM
Ethylene Glycol Butyl Ether (111-76-2) >20%	25 PPM

SECTION III. PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: ND	MELTING POINT: ND
SPECIFIC GRAVITY (H ₂ O=1): .96	VAPOR PRESSURE: ND
VAPOR DENSITY (AIR=1): ND	EVAPORATION RATE (BuAC=1): ND
SOLUBILITY IN WATER: Complete	pH: 6.5
APPEARANCE AND ODOR: Light red liquid.	

SECTION IV. FIRE AND EXPLOSION DATA

FLASH POINT (METHOD): 105°F (TCC)
FLAMMABLE LIMITS (% BY VOLUME IN AIR): ND
EXTINGUISHING MEDIA: Water fog, Dry powder, or Carbon dioxide.
SPECIAL FIRE FIGHTING PROCEDURES: Approach fire from upwind side. Avoid breathing smoke, fumes, mist, or vapors on the downwind side. Firefighters wear protective clothing and self contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Heating may cause pressure buildup and possible rupture of the container

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SECTION V. REACTIVITY INFORMATION

STABILITY: Product is stable.

MATERIALS TO AVOID: Heat.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: May produce hazardous fumes or hazardous decomposition products.

HAZARDOUS POLMERIZATION: Will not occur

SECTION VI. HEALTH HAZARD DATA

ROUTES OF ENTRY

INHALATION? Yes - Irritant

EYES? Yes - Irritant

SKIN ABSORPTION? Possible - Irritant

INGESTION? Yes - Irritant

HEALTH HAZARDS

ACUTE: The health and safety characteristics of this product are not fully known. This product contains methanol therefore, we advise that it be handled and managed as a hazardous substance.

CHRONIC: No chronic effects, either systemic or local are known.

SIGNS AND SYMPTOMS OF EXPOSURE: Ingestion may cause irritation to the membranes or the mouth, throat and gastrointestinal tract. Nausea, vomiting, cramps, and diarrhea may occur. Skin absorption may cause moderate irritation. Inhalation of the vapors may cause headache, nausea, and other symptoms for the exposure to isopropanol and methanol. Inhalation of mists or sprays may result in nonspecific irritation to the upper respiratory tract. Contact with skin may cause mild irritation.

FIRST AID PROCEDURES

EYE CONTACT: Flush eyes with large amounts of water. Do not try to neutralize with chemical agents. Get medical attention.

SKIN CONTACT: Flush with water or soap and water for 15 minutes or until all traces have been removed. Seek medical attention if symptoms develop and persist.

INGESTION: DO NOT induce vomiting, get immediate medical attention.

INHALATION: Remove victim to fresh air and, if needed, immediately begin artificial respiration. Give oxygen if breathing is labored. Get emergency medical help. Contact a physician immediately.

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SECTION VII. SPILL CONTROL MEASURES

SPILL OR LEAK PROCEDURES: Eliminate all ignition sources. Wear suitable protective equipment. Small spills, pick up with absorbent media. Store as HAZARDOUS waste. Large spills, contain with dikes, pick up with vacuum truck. Pick up remaining liquids with absorbent material. Handle as HAZARDOUS waste. Notify proper local, state, and federal agencies.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool, ventilated area, away from ignition sources. Ground all equipment to prevent buildup of static charge. Treat every drum as if it was full.

OTHER PRECAUTIONS: Clean up leaks/spills immediately to prevent soil or water contamination.

SECTION VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Not normally needed under proper conditions of use and storage.

VENTILATION: LOCAL EXHAUST - Recommended
SPECIAL - Not Necessary
MECHANICAL - Recommended, if indoors.
OTHER - Not Necessary

PROTECTIVE GLOVES: Butyl or neoprene rubber.

EYE PROTECTION: Chemical goggles or full face shield.

OTHER PROTECTIVE EQUIPMENT: Boots, aprons, drench showers, eye wash as needed for protection against spills and/or splashes.

WORK HYGIENIC PRACTICES: Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section VI. Launder contaminated clothing before reuse.

SECTION IX. TRANSPORTATION INFORMATION

Flammable liquids, n.o.s., 3, UN1993, PGII
(contains methanol)

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SECTION X. REGULATORY

TOXIC SUBSTANCES CONTROL ACT (TSCA): 40 CFR 710 sources of the raw materials used in this mixture assure that all chemical ingredients present are in compliance with Sect. 8(b) Chemical Substance Inventory, or are otherwise in compliance with TSCA.

FOOTNOTES:

NA-Not applicable, NE-Date not established, CS-Cancer Suspect Agent,
OX-Oxidizer, ND-No data, Cor-Corrosive, CALC-Calculated, EST-Estimated,
STEL-Short Time Exposure Limit, TLV-Threshold Limit Value,
PEL-Permissible Exposure Limit, TWA-Time Weighted Average, 8 hours,
HMIS-Hazardous Material Identification System,
PPI-Personal Protection Index

The data represented is true and correct to the best of our knowledge and belief, however, neither seller nor preparer makes any warranties, express or implied, concerning the information presented. The user is cautioned to perform his/her own hazard evaluation and to rely upon his/her own determination.