



SAFETY DATA SHEET

Trade name: Z Clear Fluid®

Revised 5/29/2105

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Trade name: Z Clear Fluid®

Supplied by: Horizon Mud Company, Inc.
500 West Wall St., Suite 200
Midland, TX 79702

Telephone: (432) 687-1171

Emergency: CHEMTREC 1-800-424-9300

Intended use: Food-grade drilling fluid

SECTION 2: Hazards identification

Emergency overview

Physical state: Liquid

Color: amber

Odor: slight

EMERGENCY OVERVIEW:

CAUTION! MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. Slippery when wet. Dike and contain spills. No significant immediate hazards for emergency response personnel are known.



HEALTH HAZARDS, GENERAL:

ACUTE EFFECTS:

Particulates may cause mechanical irritation to the eyes, nose, throat and lungs.

INHALATION: May be irritating to the respiratory tract if inhaled.

INGESTION: May cause gastric distress if ingested.

SKIN: May be irritating to the skin.

EYES: May be irritating to the eyes.

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CHRONIC EFFECTS:

CARCINOGENICITY: IARC: Not listed. OSHA: Not regulated. NTP: Not listed.

ROUTE OF ENTRY: Inhalation. Skin and/or eye contact.

TARGET ORGANS: Respiratory system, lungs. Skin. Eyes.

SECTION 3: Composition/information on ingredients

Chemical Name	CAS-No.	Concentration*
Proprietary		96%
Water		4%

* All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: First aid measures

GENERAL: Persons seeking medical attention should carry a copy of this SDS with them.

INHALATION: Move the exposed person to fresh air. If symptoms persist seek medical attention.

INGESTION: Drink a couple of glasses water or milk. Get medical attention if symptoms persist.

SKIN: Wash skin thoroughly with soap and water. Remove contaminated clothing.

EYES: Promptly wash eyes with potable water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if conditions persist.

SECTION 5: Fire-fighting measures

FLASH POINT (°F): Will not flash

AUTO IGNITION TEMP. (°F): Will not auto ignite under foreseeable use

FLAMMABILITY LIMIT - LOWER(%): Not a flammable product in liquid form

FLAMMABILITY LIMIT - UPPER(%): Not a flammable product in liquid form

EXTINGUISHING MEDIA: Carbon dioxide (CO₂). Dry chemicals. Foam. Water spray, fog or mist.

SPECIAL FIRE FIGHTING PROCEDURES:

Wear positive-pressure, self-contained breathing apparatus (SCBA) and protective firefighting clothing (including firefighting helmet, coat, pants, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

UNUSUAL FIRE & EXPLOSION HAZARDS: Will not support combustion as a fuel source.

HAZARDOUS COMBUSTION PRODUCTS: Irritating gases/vapors/fumes. Positive pressure SCBA recommended.

SECTION 6: Accidental release measures

PERSONAL PRECAUTIONS: Wear proper personal protective equipment (see SDS Section 8).

SPILL CLEAN-UP PROCEDURES: Dike, contain, vacuum liquids, and shovel contaminated soil into disposal containers. Flush the area with water. Repackage or recycle if possible

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SECTION 7: Handling & storage

Handling: See Section 8 of the MSDS for Personal Protective Equipment.

Storage: Store away from oxidizers.

SECTION 8: Exposure controls/personal protection

INGREDIENT COMMENTS: No exposure limits noted for ingredient(s). Exposure limits are for Particulates Not Otherwise Classified (PNOC).

ENGINEERING CONTROLS:

Use appropriate engineering controls such as, exhaust ventilation and process enclosure, to reduce air contamination and keep worker exposure low.

VENTILATION: Supply natural or mechanical ventilation adequate to exhaust airborne product and keep exposures below the applicable limits.

PROTECTIVE EQUIPMENT:

RESPIRATORS: Not required under foreseeable use

PROTECTIVE GLOVES: Use suitable protective gloves if risk of skin contact.

EYE PROTECTION: Wear splash goggles where there is danger of eye contact.

PROTECTIVE CLOTHING: Wear appropriate clothing to prevent repeated or prolonged skin contact.

HYGIENIC WORK PRACTICES: Wash promptly with soap and water if skin becomes contaminated. Change work clothing daily.

SECTION 9: Physical and chemical properties

Color: amber

Odor: slight

Physical State: Liquid

Specific Gravity: 1.3

Solubility in Water: 100%

Solubility (Other): 100%

Auto ignition Temperature: Will not auto ignite

SECTION 10: Stability and reactivity

STABILITY: Normally stable.

CONDITIONS TO AVOID: Avoid excessive heat.

HAZARDOUS POLYMERIZATION: Will not polymerize.

POLYMERIZATION DESCRIPTION: Not relevant.

MATERIALS TO AVOID: Strong oxidizing agents.

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SECTION 11: Toxicological information

TOXICOLOGICAL INFORMATION:

Safe - Non toxic

SECTION 12: Ecological information

Ecotoxicity: Not harmful to aquatic organisms.

SECTION 13: Disposal considerations

General Information: Do not discharge into drains, water courses or onto the ground. Discharge, treatment, or disposal may be subject to national, state, or local laws. Empty containers may contain product residues.

Disposal Methods: No specific disposal method required.

Container: Since emptied containers retain product residue, follow label warnings even after container is emptied.

SECTION 14: Transport information

DOT Not regulated.

TDG Not regulated.

IATA Not regulated.

IMDG Not regulated.

SECTION 15: Regulatory information

U.S. REGULATIONS:

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

NOT TO HAVE MET ANY HAZARD CATEGORY

CANADIAN REGULATIONS

The workplace hazardous materials information system (WHMIS) classification for the product is:

NOT CONTROLLED

The Transportation of Dangerous Goods Act (T.D.G.A.) classification for this product is:

NOT REGULATED

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SECTION 16: Other information

Hazard Ratings:

	Health Hazard	Fire Hazard	Instability	Special Hazard
NFPA	0	0	0	None

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

	Health Hazard	Flammability	Physical Hazard	Personal Protection
HMIS	0	0	0	See section 8 above

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

DISCLAIMER:

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, the Company makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving this SDS will make their own determination as to its suitability for their intended purpose prior to use. Since the product is within the exclusive control of the user, it is the user's obligation to determine the conditions of safe use of this product. Such conditions should comply with all Federal Regulations concerning the Product.