



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

TRADE NAME: GEL 1000
TRADE CODE: ###\$#+\$106106, 1089411, 1088326, 1083196, 1087354, 1016833, 1028771, 1016798, 1105963
PRODUCT TYPE: Drilling mud additive
COMPANY: Mountain Supply & Service, LLC Phone: 888-547-1149
PO Box 3111 • Longview, TX 75606
Emergency telephone number: CHEMTEL: 800-255-3924

2. HAZARDS IDENTIFICATION

HAZARD OVERVIEW

PHYSICAL STATE: Liquid

OSHA HAZARDS:

HAZARD CLASSIFICATION:

HAZARD STATEMENTS:

HAZARD STATEMENTS:

PRECAUTIONARY STATEMENTS:

COLOUR: Light brown **ODOR:** Negligible

Combustible Liquid

Flammable liquids, Category 4

Warning

H22): Combustible liquid

PREVENTION:

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

RESPONSE:

P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

STORAGE:

P403 + P235: Store in a well-ventilated place. Keep cool.

DISPOSAL:

P501: Dispose of contents/ container to an approved waste disposal plant.

CARCINOGENICITY:

IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.



3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Liquid Acid Gelling Agent **Molecular formula:** Mixture

Component	CAS-No.	Weight %
C12-C14 Isoalkanes	68551-19-9	0 - 60
Distillates (petroleum), hydrotreated light	64742-47-8	0 - 60

4. FIRST AID MEASURES

GENERAL ADVICE:

No hazards which require special first aid measures.

IF INHALED:

Move to fresh air. If symptoms persist, call a physician.

IN CASE OF SKIN CONTACT:

If on skin, rinse well with water. If on clothes, remove clothes.

IN CASE OF EYE CONTACT:

Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

IF SWALLOWED:

Keep respiratory tract clear. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.



5. FIRE-FIGHTING MEASURES

FLASH POINT:

76.7 °C (170.1 °F)

Method: Tag closed cup

AUTOIGNITION TEMPERATURE:

> 200 °C (> 392 °F)

SUITABLE EXTINGUISHING MEDIA:

Carbon dioxide (CO₂).

UNSUITABLE EXTINGUISHING MEDIA:

High volume water jet.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:

Wear self contained breathing apparatus for fire fighting if necessary.

FURTHER INFORMATION:

For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

FIRE AND EXPLOSION PROTECTION:

Do not spray on an open flame or any other incandescent material. Keep away from open flames, hot surfaces and sources of ignition.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon oxides

6. ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS: Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

METHODS FOR CLEANING UP:

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

HANDLING

ADVICE ON SAFE HANDLING:

Avoid formation of aerosol. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.

ADVICE ON PROTECTION AGAINST FIRE AND EXPLOSION:

Do not spray on an open flame or any other incandescent material. Keep away from open flames, hot surfaces and sources of ignition.

STORAGE

REQUIREMENTS FOR STORAGE AREAS AND CONTAINERS:

No smoking. Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENTS WITH WORKPLACE CONTROL PARAMETERS:

Ingredients	Basis	Value	Control parameters	Note
C12-C14 Isoalkanes	Manufacturer	TWA	1,200 mg/m ³	

ENGINEERING MEASURES

Adequate ventilation to control airborne concentrations below the exposure guidelines/limits.

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONT'D)

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION:

Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

HAND PROTECTION:

The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

EYE PROTECTION:

Eye wash bottle with pure water. Tightly fitting safety goggles.

SKIN AND BODY PROTECTION:

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate: Flame-resistant clothing.

Footwear protecting against chemicals.

HYGIENE MEASURES:

Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

APPEARANCE

Physical state:	Liquid
Color:	White
Odor:	Negligible

SAFETY DATA

Flash point:	76.7 °C (170.1 °F) Method: Tag closed cup
Lower explosion limit:	No data available
Upper explosion limit:	No data available
Oxidizing properties:	No
Autoignition temperature:	> 200 °C (> 392 °F)
Molecular formula:	Mixture
Molecular Weight:	Not applicable
pH:	7
Freezing point:	No data available
Boiling point/boiling range:	217.8 - 237.8 °C (424.0 - 460.0 °F)
Vapor pressure:	No data available
Relative density:	0.97
Water solubility:	Soluble
Partition coefficient: n-octanol/water:	No data available
Viscosity, kinematic:	72,000 cP
Relative vapor density:	No data available
Evaporation rate:	No data available



10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

POSSIBILITY OF HAZARDOUS REACTIONS

CONDITIONS TO AVOID: Heat, flames and sparks.

MATERIALS TO AVOID: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

OTHER DATA: No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY

C12-C14 Isoalkanes: LD50: > 3,900 mg/kg Species: rat

ACUTE INHALATION TOXICITY

C12-C14 Isoalkanes: LC50: > 5.3 mg/l
Exposure time: 4 h
Species: rat
Test atmosphere: dust/mist

ACUTE DERMAL TOXICITY

C12-C14 Isoalkanes: LD50: > 2,000 mg/kg
Species: rabbit

DISTILLATES (PETROLEUM)

HYDROTREATED LIGHT: No data available.

SKIN IRRITATION: No skin irritation

EYE IRRITATION: No eye irritation

SENSITIZATION

DISTILLATES (PETROLEUM)

HYDROTREATED LIGHT: Does not cause skin sensitization. Information given is based on data obtained from similar substances.

REPEATED DOSE TOXICITY

C12-C14 Isoalkanes: Species: Monkey
Dose: 0, 654 ppm
Exposure time: 4 wk
Number of exposures: 6 h/d, 3 d/wk NOEL: > 654 ppm

ASPIRATION TOXICITY: No aspiration toxicity classification.

FURTHER INFORMATION: Concentrations substantially above the TLV value may cause narcotic effects. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Solvents may degrease the skin. Inhalation of vapors in high concentration may cause irritation of respiratory system.

12. ECOLOGICAL INFORMATION

ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)

BIODEGRADABILITY: Expected to be inherently biodegradable.

ADDITIONAL ECOLOGICAL INFORMATION: This material is not expected to be harmful to aquatic organisms. Information given is based on data on the ingredients and the ecotoxicology of similar products.



12. ECOLOGICAL INFORMATION (cont'd)

TOXICITY TO FISH:

C12-C14 Isoalkanes LL50: > 1,000 mg/l. Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203
Information given is based on data obtained from similar substances.

TOXICITY TO DAPHNIA OR OTHER AQUATIC INVERTEBRATES:

C12-C14 Isoalkanes EL50: > 1,000 mg/l. Exposure time: 48 h
Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202. Information given is based on data obtained from similar substances.

Distillates (petroleum),
hydrotreated light

EL50: > 1,000 mg/l. Exposure time: 48 h
Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202. Aquatic toxicity is unlikely due to low solubility.

TOXICITY TO ALGAE:

C12-C14 Isoalkanes LL50: > 1,000 mg/l. Exposure time: 72 h
Species: Pseudokirchneriella subcapitata (green algae) Growth inhibition Method: OECD Test Guideline 201 Information given is based on data obtained from similar substances.

13. DISPOSAL CONSIDERATIONS

The information in this MSDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

PRODUCT: Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

CONTAMINATED PACKAGING: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

14. TRANSPORT INFORMATION

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the MSDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.
Testing (ASTM D4206) has shown product does not sustain combustion.

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.



14. TRANSPORT INFORMATION (cont'd)

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

15. REGULATORY INFORMATION

National legislation

SARA 311/312 HAZARDS:

Fire Hazard

Acute Health Hazard

CERCLA REPORTABLE QUANTITY:

This material does not contain any components with a CERCLA RQ.

SARA 302 REPORTABLE QUANTITY:

This material does not contain any components with a SARA 302 RQ.

SARA 302 THRESHOLD PLANNING QUANTITY:

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 REPORTABLE QUANTITY:

This material does not contain any components with a section 304 EHS RQ.

SARA 313 INGREDIENTS:

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

CLEAN AIR ACT

OZONE-DEPLETION POTENTIAL:

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

US STATE REGULATIONS

PENNSYLVANIA RIGHT TO KNOW:

No components are subject to the Pennsylvania Right to Know Act.

NEW JERSEY RIGHT TO KNOW:

No components are subject to the New Jersey Right to Know Act.

CALIFORNIA PROP. 65 INGREDIENTS:

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

NOTIFICATION STATUS

EUROPE REACH:

A substance or substances in this product is not registered or notified to be registered. Importation or manufacture of this product is still permitted provided that it does not exceed the REACH minimum threshold quantity of the non-regulated substances.

UNITED STATES OF AMERICA TSCA:

On TSCA Inventory

CANADA DSL:

All components of this product are on the Canadian DSL.

AUSTRALIA AICS:

On the inventory, or in compliance with the inventory

NEW ZEALAND NZIoC:

On the inventory, or in compliance with the inventory

JAPAN ENCS:

On the inventory, or in compliance with the inventory



15. REGULATORY INFORMATION (cont'd)

KOREA KECI:	Not in compliance with the inventory
PHILIPPINES PICCS:	Not in compliance with the inventory
CHINA IECSC:	On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

NFPA CLASSIFICATION: Health Hazard: 1
 Fire Hazard: 1
 Reactivity Hazard: 0



FURTHER INFORMATION

LEGACY MSDS NUMBER: 630920

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this MSDS pertains only to the product as shipped.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

KEY OR LEGEND TO ABBREVIATIONS AND ACRONYMS USED IN THE SAFETY DATA SHEET

ACGIH	American Conference of Government Industrial Hygienists	LOAEL	Lowest Observed Adverse Effect Level	GHS	Globally Harmonized System	PRNT	Presumed Not Toxic
AICS	Australia, Inventory of Chemical Substances	NFPA	National Fire Protection Agency	>=	Greater Than or Equal To	RCRA	Resource Conservation Recovery Act
DSL	Canada, Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health	IC50	Inhibition Concentration 50%	STEL	Short- Term Exposure Limit
NDSL	Canada, Non- Domestic Substances List	NTP	National Toxicology Program	IARC	International Agency for Research on Cancer	SARA	Superfund Amendments and Reauthorization Act
CNS	Central Nervous System	NZIoC	New Zealand Inventory of Chemicals	IECSC	Inventory of Existing Chemical Substances in China	TLV	Threshold Limit Value
CAS	Chemical Abstract Service	NOAEL	No Observable Adverse Effect Level	ENCS	Japan, Inventory of Existing and New Chemical Substances	TWA	Time Weighted Average
EC50	Effective Concentration	NOEC	No Observed Effect Concentration	KECI	Korea, Existing Chemical Inventory	TSCA	Toxic Substance Control Act
EC50	Effective Concentration 50%	OSHA	Occupational Safety & Health Administration	<=	Less Than or Equal To	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
EINECS	European Inventory of Existing Chemical Substances	PEL	Permissible Exposure Limit	LC50	Lethal Concentration 50%	WHMIS	Workplace Hazardous Materials Information System
MAK	Germany Maximum Concentration Values	PICCS	Philippines Inventory of Commercial Chemical Substances	LD50	Lethal Dose 50%		