

POLY FRICTION REDUCER

SAFETY DATA SHEET

Version: 2
Revision Date: 06/01/2015
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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifiers

Product Name: Poly Friction Reducer
Product Number: MM007
Brand: Fluid Technology Service International, L.L.C.

1.2 Use and Substance / Preparation

Drilling & Workover Fluid / Rheology. Control Agent.

1.3 Details of the supplier of the safety data sheet

Fluid Technology Service International, LLC
P.O. Box 1702
Scott, LA 70583
Telephone: +1 (877) 503-5843
Fax: +1 (337) 264-9493

1.4 Emergency telephone number

Chemtrek (24 Hours): 1 (800) 424-9300

SECTION 2: HAZARDS IDENTIFICATION

Appearance: Tan
Physical State: Liquid
Odor: Hydrocarbon

D.O.T. Hazard Classification: Non-hazardous material

OSHA/GHS Label Elements: May cause eye and skin irritation

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name | CAS-NO | Weight | North American Hazard Indicator |
|---------------------|------------|----------|---------------------------------|
| Light Naphthenic | 64742-53-6 | 70 – 75% | None Known |
| Xanthan Gum | 11138-66-2 | 25 – 45% | None Known |
| Fatty Oil | N/A | 5-25% | None Known |
| Ethoxylated Alcohol | 66455-14-9 | 5-25% | None Known |
| Suspension Additive | N/A | 5 – 10% | None Known |

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

Skin: Flush exposed area with plenty of water. Seek medical attention if irritation occurs.

Eyes: Flush eyes with plenty of water. Seek medical attention if there is any irritation.

Inhalation: N/A

Ingestion: Call a Physician

4.2 Effects of Over-Exposure

Skin: Irritation and dermatitis in the event of prolonged exposure.

Eyes: Eye irritant. May cause redness, tearing, and blurred vision.

Inhalation: N/A

Ingestion: May cause nausea, vomiting, diarrhea, and restlessness if ingested.

5. FIRE-FIGHTING MEASURES

Flash Point: 240 °F

Upper Explosive Limit: N/A

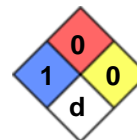
Lower Explosive Limit: N/A

Extinguishing Media: N/A

Special Firefighting Procedures: Use carbon dioxide, dry chemical powder, or foam.

Unusual Fire and Explosion Hazards: N/A

| | | |
|--------------|------------------------------------|----------|
| NFPA: | Health | 1 |
| | Flammability | 0 |
| | Reactivity | 0 |
| | Maximum Personal Protection | d |



6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wet material on walking surfaces will be extremely slippery

Methods for Cleaning Up: Contain large spills with dikes and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material and then place in a chemical waste container. Flush residual spill area with water.

Disposal information: Refer to section 13

7. HANDLING AND STORAGE

7.1 Precautions to be taken in handling and storage:

Hazardous Class: Non-Regulated

DOT Shipping Name: Poly Friction Reducer

Reportable Quantity: Above 500,000 Gallons

UN, Number: none

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Engineering Controls

Ventilation: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

8.2 Personal Protective Equipment

Respiratory Protection: No special requirement

Hand Protection: Protective gloves recommended

Eye Protection: Safety glasses recommended

Skin and Body Protection: Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wear appropriate protective clothing.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Tan

Physical State: Liquid

Odor: Hydrocarbon

PH: 7.0

Flash Point: 240 °F

Boiling Point: 220 °F

Pour Point: N/A

Melting / Freezing Point: N/A

Water Solubility: Appreciable

Evaporation Rate: <1

Vapor Pressure: N/A

Specific Gravity: 1.07

10. STABILITY AND REACTIVITY

Stability: Stable

Polymerization: Hazardous Polymerization will not occur

Materials to Avoid: Strong oxidizers

Hazardous Decomposition Products: Carbon dioxide and carbon monoxide

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

| | |
|----------------------------|---|
| Acute Toxicity | Test on similar materials show a low order of acute oral and dermal toxicity. |
| Acute Inhalation Effects | Low acute toxicity expected on inhalation |
| Eye Irritations | Minimal irritation |
| Skin irritations / effects | May cause mild irritation with prolonged contact |
| Reproductive toxicity | Based on available data, classification criteria are not met |
| Carcinogenicity | Based on available data, classification criteria are not met |

12. ECOLOGICAL INFORMATION

Aquatic Release: Advise authorities if product has entered water sources or sewer drains

Ecotoxicity: Available data indicate this product is not acutely toxic

Biodegradability: This product reaches less than 10% biodegradation in standard 28 day test and is not readily biodegradable in the environment

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose in accordance with local, state, and national regulations.

Contaminated Packaging: Dispose of container and unused contents in accordance with federal, state, and local requirements.

14. TRANSPORTATION INFORMATION

General Information: The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment transportation.

D.O.T. Hazard Classification: Non-hazardous material

TDG: Not hazardous

IMP / IMDG: Not hazardous

ICAO / IATA: Not hazardous

RED / ADR: Not hazardous

15. REGULATORY INFORMATION

Superfund Amendments and reauthorization act of 1986 Title 111 (Emergency Planning and Community Right to Know Act) Section 313 > To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

TSCA: All components of this product on the TSCA inventory list requirements

CEPA: All substance contained in this product are listed on the Canadian Domestic Substance list DSL or are not required to be listed

California Proposition 65; Component Propylene Oxide case# 75-56-9 known to California to cause cancer

Carcinogenicity: Not recognized as a carcinogen by the IARC, NTP, or OSHA

16. OTHER INFORMATION

Original Preparation: 15-Apr-13

Revision Date: 1-Jun-15

Version Number: 2

Reason for Revision: New SDS format. This version replaces all previous versions.

Abbreviations and Acronyms:

ACGIH TLV – American Conference of Governmental Industrial Hygienists Threshold Limit Values

AICS – Australian Inventory of Chemical Substances (Australia)

CAS – Chemical Abstract Service

CHINA – Chinese Inventory of Existing Chemical Substances (China)

DOT – U.S. Department of Transportation

DSL – Domestic Substance List (Canada)

EINECS – European Inventory of Existing Commercial Chemical Substances (EU)

ELINCS – European List of Notified Chemical Substances (EU)

ENCS – Existing and New Chemical Substances (Japan) / ISHL – Industrial Health and Safety Law (Japan)

GHS – Globally Harmonized System of Classification and Labelling of Chemicals

IATA – International Air Transport Association Dangerous Goods Regulations

ICAO – International Civil Aviation Organization

ICL – In Commerce List (Canada)

IMDG – International Maritime Dangerous Goods Code

IMO – International Maritime Organization

KECL – Korean Existing and Evaluated Chemical Substances (Korea)

MEX – NOM-002-SCT/2003 List of Hazardous Substances and Materials Most Commonly Transported

NDSL – Non-Domestic Substances List (Canada)

NFPA – National Fire Protection Association

NIOSH – National Institute of Occupational Safety and Health

NZIoC – New Zealand Inventory of Chemicals (New Zealand)

OSHA – Occupational Safety and Health Administration

OSHA PEL – Occupational Safety and Health Administration Permissible Exposure Limits

PICCS – Inventory of Chemicals and Chemical Substances (Philippines)

STOT – Specific Target Organ Toxicity

TDG – Transportation of Dangerous Goods (Transport Canada)

TSCA – Toxic Substances Control Act, Section 8(b) Inventory (USA)

TWA – Time Weighted Average: Average concentration that should not be exceeded during a work day (~8 hrs.)

WHMIS – Workplace Hazardous Materials Information System

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered as 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 material or in any process, unless specified in the text.