

PETRO-MOD**SECTION 1. IDENTIFICATION**

Product Identifier	PETRO-MOD
Other Means of Identification	Fatty acids derivatives in fuel oil
Product Family	Oil Mud Rheology Modifier
Recommended Use	Drilling Fluid Additive.
Supplier Identifier	Bri-Chem Supply Ltd., Bay 4, 5510 - 3rd Street SE, Calgary, Alberta, T2H 1J9, Bri-Chem Supply, 403-252-5904, www.brichemsupply.com
Emergency Phone No.	ChemTrec, (800) 424-9300, 24/7

SECTION 2. HAZARD IDENTIFICATION**Classification**

Flammable liquid - Category 4; Serious eye damage - Category 1; Carcinogenicity - Category 1B; Aquatic hazard (Chronic) - Category 4

Label Elements

Signal Word:

Danger

Hazard Statement(s):

Combustible liquid.

Causes serious eye damage.

May cause cancer.

May cause long lasting harmful effects to aquatic life.

Precautionary Statement(s):

Prevention:

Do not handle until all safety precautions have been read and understood.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Avoid release to the environment.

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

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

IF exposed or concerned: Get medical advice or attention.

Storage:

Store in a well-ventilated place.

Store locked up.

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Fuel oil no.2	68476-30-2	15-30	
2-(2-(2-butoxyethoxy)ethoxy)ethanol	143-22-6	10-25	
Naphthalene	91-20-3	< 0.5	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Ventilate the premises. The patient should be removed immediately from the contaminated premises and made to rest in a well-ventilated area. Should the patient feel unwell, GET MEDICAL ATTENTION.

Skin Contact

Remove contaminated clothing and footwear immediately. Areas of the body that have or are only even suspected of having come in contact with the product, must be rinsed immediately with plenty of running water and possibly with soap.

Eye Contact

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water while holding the eyelid(s) open for at least 10 minutes. Following this, protect the eyes with sterile gauze or a clean, dry handkerchief. GET MEDICAL ATTENTION.

Do not use eyewash or ointment of any kind (before obtaining an examination or advice from an eye specialist).

Ingestion

Do not, under any circumstances, induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Water, carbon dioxide, foam, chemical powders, according to the materials involved in the fire.

Specific Hazards Arising from the Product

Combustible liquid. Flash Point: > 63°C (closed cup).

Avoid inhaling the fumes.

Special Protective Equipment and Precautions for Fire-fighters

Cool the containers exposed to the fire with water.

Use protection for the respiratory tract. A full-body encapsulating chemical protective suit with positive pressure SCBA may be necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use a mask, gloves and protective clothing.

Environmental Precautions

Limit leakages with earth or sand. If the product has escaped into the water course, into the drainage system or has contaminated the ground or vegetation, notify the relevant authorities.

Methods and Materials for Containment and Cleaning Up

Use appropriate safety equipment. Stop leak if safe to do so without risk. Rapidly recover the product. Stop the product from entering the drainage system. Recover the product for re-use, if possible, or for elimination. This product might, where applicable, be absorbed by inert material.

SECTION 7. HANDLING AND STORAGE

Product Identifier: PETRO-MOD

Date of Preparation: February 11, 2016

Page 02 of 06

Precautions for Safe Handling

Avoid contact and inhalation of the vapours/spray. Use with adequate ventilation. Use with adequate protective respiratory equipment and comprehensive protection for the skin and eyes. Do not smoke, eat or drink when handling this product.

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Conditions for Safe Storage

Store in a cool, well-ventilated area away from ignition sources (unguarded flame, sparks and heat sources). Avoid direct exposure to sunlight. Always keep the containers tightly closed.

This product must be stored, handled and used according to criteria of good industrial practice and to regulations in force.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

(FUEL OIL NO. 2)

OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. 5 mg/m³

OSHA = US Occupational Safety and Health Administration. STEL = Short-term Exposure Limit. 10 mg/m³

ACGIH® = American Conference of Governmental Industrial Hygienists. 5 mg/m³

(Naphthalene)

OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. 50 mg/m³.

Appropriate Engineering Controls

Give adequate ventilation to the premises where the product is stored and/or handled.

Individual Protection Measures

Eye/Face Protection

Use close-fitting safety goggles and/or visor conforming to OSHA regulations.

Skin Protection

Use protective clothing and gloves that provide comprehensive protection.

Respiratory Protection

Use adequate protective respiratory equipment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Dark liquid. Particle Size: Not available
Odour	Aromatic
Odour Threshold	Not available
pH	Not available
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	> 100 °C
Flash Point	> 63 °C (closed cup)
Evaporation Rate	Not available
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	0.85 - 1.00
Solubility	Insoluble in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available (kinematic)

Other Information

Product Identifier: PETRO-MOD

Date of Preparation: February 11, 2016

Physical State	Liquid
Molecular Formula	Not available
Molecular Weight	Not available
Bulk Density	Not available
Surface Tension	Not available
Critical Temperature	Not available
Vapour Pressure at 50 deg C	Not available
Saturated Vapour Concentration	Not available

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions.

Conditions to Avoid

Avoid contact with combustible materials. The product could catch fire.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

LC50: No information was located.

Mixture

LD50 Oral Rat: >2000 mg/kg

2-(2-(2-butoxyethoxy)ethoxy)ethanol

LD50 Oral Rat: 5170 mg/kg

2-(2-(2-butoxyethoxy)ethoxy)ethanol

LD50 Dermal Rabbit: 3540 mg/kg

Skin Corrosion/Irritation

Repeated or prolonged contact may cause slight skin irritation.

Serious Eye Damage/Irritation

Serious eye damage

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Prolonged vapours exposure may cause slight and temporary irritation to the respiratory system.

Ingestion

May cause lung damage if swallowed.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

This product contains naphthalene, classified by IRAC as "possibly carcinogenic to human" (Group 2B).

Carcinogenicity

This product contains benzene naphthalene, classified by IRAC as "possibly carcinogenic to human" (Group 2B).

No information was located for: Respiratory and/or Skin Sensitization, Development of Offspring, Sexual Function and Fertility, Germ Cell Mutagenicity, Interactive Effects

SECTION 12. ECOLOGICAL INFORMATION

Avoid product dispersion in the environment.

Ecotoxicity

2-(2-(2-butoxyethoxy)ethoxy)ethanol

Aquatic acute toxicity

Fish NOEC: 1000 mg/l 96 h

Daphnia magna LC50: 2210 mg/l 48 h

Persistence and Degradability

Product Identifier: PETRO-MOD

Date of Preparation: February 11, 2016

Page 04 of 06

2-(2-(2-butoxyethoxy)ethoxy)ethanol
Readily biodegradable

Bioaccumulative Potential

2-(2-(2-butoxyethoxy)ethoxy)ethanol
Not bioaccumulative

Mobility in Soil

2-(2-(2-butoxyethoxy)ethoxy)ethanol
Very high mobility in soil

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Recover, if possible. Dispose of in accordance with federal, provincial and local government regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations.

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification



Class B3



Class D2A

B3 - Combustible Liquid; D2A - Very Toxic

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All the ingredients as such or as chemical group are registered in the Domestic Substance List (DSL).

SECTION 16. OTHER INFORMATION

NFPA Rating **Health - 2** **Flammability - 2** **Instability - 1**

SDS Prepared By Bri-Chem Supply Ltd

Phone No. (403) 252-5904

Date of Preparation February 11, 2016

Date of Last Revision September 14, 2016

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