

SAFETY DATA SHEET

**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  
**Manufacturer/Supplier:** Bri-Chem Supply Ltd.  
27075 Acheson Road  
Acheson, AB T7X 6B1  
**Phone Number:** 780-962-9490  
**Emergency Phone:** CHEMTREC 1-800-424-9300, 24/7

**Section 2: HAZARD(S) IDENTIFICATION**

**Classification:** Flammable liquid - Category 4; Serious eye damage - Category 1; Carcinogenicity - Category 1B; Aquatic hazard.

**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.

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### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
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

<b>Inhalation:</b>	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.
<b>Skin Contact:</b>	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.
<b>Eye Contact:</b>	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).
<b>Ingestion:</b>	Do not, under any circumstances, induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY.

### Section 5: FIRE-FIGHTING MEASURES

#### Extinguishing Media

<b>Suitable Extinguishing Media:</b>	Water, carbon dioxide, foam, chemical powders, according to the materials involved in the fire.
<b>Special Hazards Arising from the Product:</b>	Combustible liquid. Flash Point: > 63°C (closed cup). Avoid inhaling the fumes.
<b>Special Protective Equipment and Precautions for Fire-Fighters:</b>	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

<b>Personal Precautions, Protective Equipment and Emergency Procedures:</b>	Use a mask, gloves and protective clothing.
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- 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

- 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/m<sup>3</sup>

OSHA = US Occupational Safety and Health Administration. STEL = Short-term Exposure Limit. 10 mg/m<sup>3</sup>

ACGIH® = American Conference of Governmental Industrial Hygienists. 5 mg/m<sup>3</sup> (Naphthalene)

OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. 50 mg/m<sup>3</sup>

**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

**Odour:** Aromatic

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<b>Odour Threshold:</b>	Not available
<b>pH:</b>	Not available
<b>Melting Point/Freezing Point:</b>	Not available (melting); Not available (freezing)
<b>Initial Boiling Point/Range:</b>	> 100°C
<b>Flash Point:</b>	> 63°C (closed cup)
<b>Evaporation Rate:</b>	Not available
<b>Upper/Lower Flammability or Explosive Limit:</b>	Not available (upper); Not available (lower)
<b>Vapour Pressure:</b>	Not available
<b>Vapour Density (Air=1):</b>	Not available
<b>Relative Density (Water=1):</b>	~ 0.85 – 1.00
<b>Solubility:</b>	Insoluble in water, Not available (in other liquids)
<b>Partition Coefficient, n-Octanol/Water (Log Kow):</b>	Not available
<b>Auto-Ignition Temperature:</b>	Not available
<b>Decomposition Temperature:</b>	Not available
<b>Other Information</b>	
<b>Physical State:</b>	Liquid
<b>Molecular Formula:</b>	Not available
<b>Molecular Weight:</b>	Not available
<b>Surface Tension:</b>	Not available
<b>Critical Temperature:</b>	Not available

**Section 10: STABILITY AND REACTIVITY**

<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Avoid contact with combustible materials. The product could catch fire.

**Section 11: TOXICOLOGICAL INFORMATION**

**Acute Toxicity**

<b>LC50:</b>	No information was located.
<b>Mixture</b>	
<b>LD50 Oral Rat:</b>	>2000 mg/kg

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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: 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 Method: 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

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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

**Disclaimer:**

The information contained herein is based on data available to us and is believed to be true and accurate. However, no guarantee or warranty is provided, expressed or implied, by the company or its subsidiaries regarding accuracy of the information, the hazards connected with the use of the material, or the results to be obtained from the use thereof. Since the use of this product is within the exclusive control of the user, we do not assume any responsibility and expressly disclaim any liability for any use of this product. It is the user's responsibility to determine the conditions of safe use, storage, and disposal of the product. Compliance with all applicable federal, provincial, and local regulations remains the responsibility of the user.

**Prepared by:** Bri-Chem Supply Ltd.

**Revision Date:** July 23, 2024