

SECTION 1: Identification

Product form: Liquid

Substance name: Fatty Acid

CAS No.: None

EINECS No.: None

Intended Use Of The Product: Extreme Pressure Drilling fluid additive, lubricant, lubricant additive. For Specific use instructions contact your local Turbo-Chem Representative. Actual usage of this product depends on many conditions, which can be reviewed with you. This product is to be used in industrial applications. DO NOT USE for any other purposes. Use care when mixing this product with any other chemicals or products.

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USA/Canada: 1.800.424.9300 Emergency

Europe: +44 203318047

SECTION 2: Hazards identification

GHS-US classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Serious Eye Damage / Eye Irritation - Category 2A

Symbol(s)



Signal word (GHS-US): Warning

Hazard statements (GHS-US) : Causes Eye Irritation

Precautionary statements (GHS-US):

Prevention: Wear eye protection/face protection. Wash thoroughly after handling.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage: None needed according to classification criteria.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3: Composition/information on ingredients

CAS	Component Name	Percent
Confidential	Sulfurized complex fats and oil	50-70
64742-47-8	Petroleum distillates, hydrotreated light	0-20
143-22-6	Triethylene glycol monobutyl ether	0-20
112-34-5	Diethylene glycol monobutyl ether	0-20
107-21-1	Ethylene glycol	0-20

SECTION 4: First aid measures

First-aid measures general: Not expected to be toxic. No hazards which require special first aid measures. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

First-aid measures after inhalation: If inhaled remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion: Have victim rinse mouth thoroughly with water. Do not induce vomiting. Immediately call a POISON CONTROL CENTER or doctor.

Indication of any immediate medical attention and special treatment needed

If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures**Extinguishing media**

Suitable extinguishing media: Dry chemical, CO₂, water spray or alcohol foam.

Special hazards arising from the substance or mixture : none

Hazardous Combustion / Decomposition Products: Phosphorus oxides, Carbon dioxide, Carbon Monoxide

Advice for firefighters

Firefighting instructions / Special Firefighting Equipment: In case of fire: Wear self-contained breathing apparatus. Use water spray/stream to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures: Use personal protection equipment.

For non-emergency personnel

Protective equipment: Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental precautions

Cover with absorbent or flush with water. Prevent runoff. Collect and dispose. Observe government regulations.

SECTION 7: Handling and Storage

Precautions for safe handling: Keep container tightly closed. Handle and open container with care.

Hygiene measures: In case of insufficient ventilation wear suitable respiratory equipment. Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including any Incompatibilities: None needed according to classification criteria.

SECTION 8: Exposure controls/personal

Component Exposure Limits

Diethylene glycol monobutyl ether	112-34-5
ACGIH:	10 ppm TWA inhalable fraction and vapor ; 100 mg/m3 Ceiling aerosol only
Europe:	10 ppm TWA; 67.5 mg/m3 TWA ; 15 ppm STEL; 101.2 mg/m3 STEL ;20 ppm TWA; 52 mg/m3 TWA
Ethylene glycol	107-21-1
Mexico:	100 mg/m3 Ceiling aerosol

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EU- Occupational Exposure (98/24/EC)- Binding Biological Limit Values and Health Surveillance Measures

There are no biological limit values for any of this product's components.

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI) - There are no biological limit values for any of this products coponents.

Engineering Controls - Maintain ventilation sufficient to reduce defined level(s) for any hazardous ingredient.

Individual Protection Measures, such as Personal Protective Equipment

Hand protection : Wear protective gloves and protective clothing.
Eye/Face protection : Wear eye protection / face protection
Respiratory protection : In case of inadequate ventilation wear respiratory protection.



SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Not available
Colour : Amber to Dark Amber
Odour : Sharp
Odour threshold :Nodata
pH : 8.0
Relative evaporation rate (butylacetate=1) : No data
Melting point : No data
Freezing point : No data
Boiling point : Not known
Flash Point : >200F
Auto-ignition temperature : No data available
Decomposition Temperature : No data available
Flammability (solid, gas) : No data available :
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density :
Density : 8.51 #/gal
Solubility : No data avail.
Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : Not applicable

SECTION 10: Stability and reactivity

Reactivity: None known

Chemical Stability : This product is stable under storage under normal ambient temperatures.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: Strong oxidizing agents and high temperatures.

Incompatible Materials: Strong acids, strong oxidizers.

Hazardous Decomposition Products: Phosphours oxides, Carbon Dioxide, Carbon Monoxide

SECTION 11: Toxicological information

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Petroleum distillates, hydrotreated light (64742-47-8)

Oral LD50 Rat >5000 mg/kg

Dermal LD50 Rabbit >2000 mg/kg

Inhalation LC50 Rat >5.2 mg/L 4 h

Triethylene glycol monobutyl ether (143-22-6)

Oral LD50 Rat 5300 mg/kg

Dermal LD50 Rabbit 3480 mg/kg

Diethylene glycol monobutyl ether (112-34-5)

Oral LD50 Rat 5660 mg/kg

Dermal LD50 Rabbit 2700 mg/kg

Ethylene glycol (107-21-1)

Oral LD50 Rat 4700 mg/kg

Dermal LD50 Rat 10600 mg/kg

Immediate Effects: No information on significant adverse effects.

Delayed Effects: No information on significant adverse effects.

Irritation/Corrosivity Data: No data available.

Respiratory Sensitization, Germ Cell Mutagenicity, Reproductive Toxicity, Specific Organ Toxicity (single and repeated exposure), Aspiration hazard, Medical Conditions Aggravated by Exposure: No data available.

Dermal Sensitization: No data available.

Component Carcinogenicity: Petroleum Distillates, hydrotreated light (64742-47-8)

DFG (Category 3B: could be carcinogenic for man, isomers in technical mixtures).

Ethylene Glycol 9 (107-21-1)

ACGIH (A4: Not Classifiable as a Human Carcinogen)

SECTION 12: Ecological information

Component Analysis: Aquatic Toxicity

Petroleum distillates, hydrotreated light: 64742-47-8

Fish: LC50 96 h Pimephales promelas 45 mg/L [flow-through]; LC50 96 h Lepomis macrochirus 2.2 mg/L [static]; LC50 96 h Oncorhynchus mykiss 2.4 mg/L [static]

LC50 96 h Pimephales promelas 2400 mg/L [static]; LC50 96 h Pimephales promelas 2400 mg/L LC50 96 h Lepomis macrochirus 1300 mg/L [static]

LC50 96 h Oncorhynchus mykiss 41000 mg/L; LC50 96 h Oncorhynchus mykiss 14 - 18 mL/L [static]; LC50 96 h Lepomis macrochirus 27540 mg/L [static]; LC50 96 h Oncorhynchus mykiss 40761 mg/L [static]; LC50 96 h Pimephales promelas 40000 - 60000 mg/L [static]; LC50 96 h Poecilia reticulata 16000 mg/L [static]

Triethylene glycol monobutyl ether: 143-22-6

Algae: EC50 96 h Pseudokirchneriella subcapitata 6500 - 13000 mg/L IUCLID

EC50 72 h Desmodesmus subspicatus >500 mg/L IUCLID

Invertebrate: EC50 48 h Daphnia magna >500 mg/L IUCLID

EC50 48 h Daphnia magna 46300 mg/L IUCLID

SECTION 13: Disposal considerations

Disposal Methods

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

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SECTION 14: Transport information

US DOT Information:

UN/NA #: DOT NOT REGULATED

IATA Information:

No Classification assigned.

TDG Information:

UN#: DOT NOT REGULATED

SECTION 15: Regulatory information

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Petroleum distillates, hydrotreated light: 64742-47-8

Ethylene glycol: 107-21-1

SARA 313: 1% de minimis concentration

CERCLA: 5000 lb final RQ. 2270 kg final RQ

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: No **Chronic Health:** No **Fire:** No **Pressure:** No **Reactivity:** No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
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Ethylene glycol	107-21-1	Yes	Yes	Yes	Yes	Yes
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The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects

Ethylene glycol: 107-21-1

Repro/Dev. Tox: developmental toxicity, 6/19/2015 (ingested)

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Triethylene glycol monobutyl ether: 143-22-6, 1%

Diethylene glycol monobutyl ether: 112-34-5, 1%

Ethylene glycol: 107-21-1, 1%

WHMIS Classification

Component Analysis - Inventory Sulfurized complex fats and oil (Confidential)

US	CA	EU	AU	PH	JP/ENCS	JP/ISHL	KR/KECI/KECL	KR/TCCA	CN	NZ	MX
yes	DSL	EIN	yes	yes	no	no	yes	no	yes	yes	no

Petroleum distillates, hydrotreated light (64742-47-8)

US	CA	EU	AU	PH	JP/ENCS	JP/ISHL	KR/KECI/KECL	KR/TCCA	CN	NZ	MX
yes	DSL	EIN	yes	yes	no	no	yes	no	yes	yes	yes

Triethylene glycol monobutyl ether (143-22-6)

US	CA	EU	AU	PH	JP/ENCS	JP/ISHL	KR/KECI/KECL	KR/TCCA	CN	NZ	MX
yes	DSL	EIN	yes	yes	yes	yes	yes	no	yes	yes	no

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Diethylene glycol monobutyl ether (112-34-5)

US	CA	EU	AU	PH	JP/ENCS	JP/ISHL	KR/KECI/KECL	KR/TCCA	CN	NZ	MX
yes	DSL	EIN	yes	yes	yes	yes	yes	no	yes	yes	yes

Ethylene glycol (107-21-1)

US	CA	EU	AU	PH	JP/ENCS	JP/ISHL	KR/KECI/KECL	KR/TCCA	CN	NZ	MX
yes	DSL	EIN	yes	yes	yes	no	yes	no	yes	yes	yes

SECTION 16: Other information

HMIS Rating

Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

NFPA Ratings

Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe



Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

Other Information

Disclaimer:

The safety information of this product is provided to assist our customers in assessing compliance with health, safety and environmental regulations. The information contained herein is based on data available to us and is believed to be accurate, although no guarantee or warranty is provided by the company in this respect. Since the use of this 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.