



SAFETY DATA SHEET

RheoBore

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : RheoBore

Other means of identification : Anionic Liquid PHPA

Recommended use : No Data available

Restrictions on use : None known

Company : Drillchem Drilling Solutions, LLC
P.O. Box 132107
Spring, TX 77393

Emergency telephone number : (800) 424-9300 (24 Hours) CHEMTREC

Issuing date : 08/02/2018

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Not classified

Skin irritation : Not classified

Eye irritation : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity - single exposure : Not classified

Aspiration hazard : Not classified

GHS Label element

Hazard pictograms :



Signal Word : None

Hazard Statements : The mixture does not meet the criteria for classification.

Precautionary Statements : **Prevention:** Observe good industrial hygiene practices.

Response: Wash hands after handling.

Storage: Store away from incompatible materials.

Disposal: Dispose of waste and residues in accordance with local authority requirements.

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Pure substance/mixture : Mixture

<u>Material or Component</u>	<u>CAS Number</u>	<u>Percentage</u>
Hydrotreated light petroleum distillate	64742-47-8	10-30%
Alcohols, C12-16 Ethoxylated	68551-12-2	0-5%
Alcohols, C10-16 Ethoxylated	68002-97-1	0-5%
Alkyl-C12-C4 Alcohol Ethoxylated>2-10EO	68439-50-9	0-5%

Components listed above that have a zero minimum and a common maximum range are interchangeably used components based on availability. Only one of these components is contained in the product up to the maximum amount noted.

Section: 4. FIRST AID MEASURES

- In case of eye contact : Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
- In case of skin contact : Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing.
- If swallowed : Get medical attention. If vomiting occurs, keep head lower than hips to prevent aspiration.
- If inhaled : Remove to fresh air. If irritation or allergy develops, consult a physician
- Protection of first-aiders : Move to fresh air. Call a physician if symptoms develop or persist.
- Notes to physician : Treat symptomatically.

Section: 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : water fog, CO2, dry chemical, foam
- Unsuitable extinguishing media : No data available
- Specific hazards during firefighting : Decomposition in fire may produce toxic gases. Use water spray to cool fire exposed surfaces.
- Hazardous combustion products : No data available
- Special protective equipment for firefighters : No data available
- Specific extinguishing methods : No data available

Section: 6. ACCIDENTAL RELEASE MEASURES

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- Environmental precautions : Prevent from entering sewers, waterways, or low areas.
- Methods and materials for containment and cleaning up : Isolate spill and stop leak when safe. Contain spill with sand or other inert materials. Scoop up and remove.

Section: 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing before reuse.
- Conditions for safe storage : Flashpoint determination was performed using a Pensky Martens type closed cup method. The method indicates a flash point greater than 93,3° C (200° F). Store at room temperature
- Suitable material : No data available
- Unsuitable material : To avoid product degradation and equipment corrosion, do not use iron, copper or aluminum containers or equipment.

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Occupational exposure limits:

US. OSHA Table z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
MINERAL OIL (CAS 8042-47-5)	PEL	5mg/m3	Mist

US. ACGIH Threshold Limit Values Components

Components	Type	Value	Form
MINERAL OIL (CAS 8042-47-5)	TWA	5mg/m3	Inhalable fraction

US. NIOSH: Pocket Guide to Chemical Hazards Component

Components	Type	Value	Form
MINERAL OIL (CAS 8042-47-5)	STEL	10/mg/m3	Mist
	TWA	5mg/m3	Mist

- Engineering measures : Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

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Eye protection	: Wear safety glasses with side shields (or goggles).
Hand protection	: Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Skin protection	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.
Hygiene measures	: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid
Colour	: Light grey to White
Odour	: Mild hydrocarbon
Flash point	: 275 °F
pH	: 6-8
Odour Threshold	: no data available
Melting point/freezing point	: no data available
Initial boiling point and boiling range	: 680 °F
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: no data available
Relative vapour density	: no data available
Relative density	: no data available
Density	: 1.00 g/cm ³
Water solubility	: no data available
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition temperature	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: no data available

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Molecular weight : no data available
Specific gravity : 1

Section: 10. STABILITY AND REACTIVITY

Chemical stability : Material is stable under normal conditions.
Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.
Conditions to avoid : Contact with incompatible materials.
Incompatible materials : Strong oxidizing agents.
Hazardous decomposition products : No hazardous decomposition products are known.

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

Potential Health Effects

Eyes : Direct contact with eyes may cause temporary irritation.
Skin : No adverse effects due to skin contact are expected.
Ingestion : Expected to be a low ingestion hazard.
Inhalation : Prolonged inhalation may be harmful.

Experience with human exposure

Eye contact : Direct contact with eyes may cause temporary irritation.
Skin contact : No data available.
Ingestion : No data available.
Inhalation : No data available.

Toxicity

Product

Acute oral toxicity : No data available
Acute inhalation toxicity : No data available
Acute dermal toxicity : No data available
Skin corrosion/irritation : Prolonged skin contact may cause temporary irritation.

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Serious eye damage/eye irritation	:	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitization	:	Not a respiratory sensitizer. This product is not expected to cause skin sensitization.
Carcinogenicity		
IARC		MINERAL OIL (CAS 8042-47-5) Not classifiable as to carcinogenicity to humans.
OSHA		Not regulated.
NTP		Not listed.
Reproductive effects	:	This product is not expected to cause reproductive or developmental effects.
Germ cell mutagenicity	:	Not classified
Teratogenicity	:	Not classified
STOT - single exposure	:	Not classified
STOT - repeated exposure	:	Not classified
Aspiration toxicity	:	Not an aspiration hazard.
Chronic effects	:	Prolonged inhalation may be harmful.

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects : The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability no data available

Mobility: no data available

Bioaccumulative potential: no data available

Other information

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section: 13. DISPOSAL CONSIDERATIONS

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- Disposal methods : Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Local disposal regulations Dispose in accordance with all applicable regulations. The waste code should be assigned in discussion between the user, the producer and the waste disposal company. Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
- Contaminated packaging : Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT):

Not regulated as dangerous goods.

Air transport (IATA)

Not regulated as dangerous goods

Sea transport (IMDG/IMO)

Not regulated as dangerous goods

Section: 15. REGULATORY INFORMATION

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA list : Not regulated.

EPCRA - Emergency Planning and Community Right-to-Know Act: Not listed.

CERCLA Reportable Quantity: Not listed.

SARA 304 Extremely Hazardous Substances Reportable Quantity: Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910. 1001-1050): Not listed.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpart D):

Not regulated.

California Prop 65

This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

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Superfund Amendments and Reauthorization Act of 1986

(SARA) Hazard categories

Immediate Hazard - No

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard – No

US state regulations US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. Massachusetts RTK - Substance List MINERAL OIL (CAS 8042-47-5) US. New Jersey Worker and Community Right-to-Know Act

Not listed

US. Pennsylvania Worker and Community Right-to-Know Law

MINERAL OIL (CAS 8042-47-5) US.

Rhode Island RTK

Not regulated.

INTERNATIONAL CHEMICAL CONTROL LAWS :

United States TSCA Inventory: On TSCA Inventory

Canadian Domestic Substances List (DSL): On DSL Inventory

Australia. Industrial Chemical (Notification and Assessment) Act: On AICS Inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand: On New Zealand Inventory

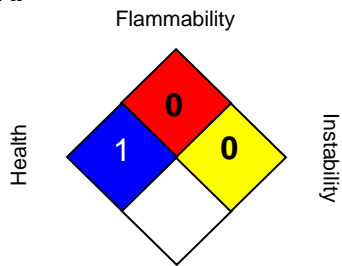
China Inventory of Existing Chemical Substances: On IECSC Inventory

Section: 16. OTHER INFORMATION

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NFPA:



HMIS III:

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

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The information provided in this 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.