

SECTION 1. IDENTIFICATION

Product Identifier ONYXLOW
Product Family Rheology Modifiers
Recommended Use Elevate low Rheology of OBM
Supplier Identifier Blackstone Drilling Fluids Ltd., 1600, 510 - 5th Street S.W., Calgary, Alberta, T2P 3S2, 403-262-5955

Emergency Phone No. CANUTEC, 613-996-6666 or *666 on a cellular phone (Canada Only), 24 Hours / Day

SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION:

Flammable Liquids - Category 4
 Skin Corrosion – Category 1C
 Serious Eye Damage - Category 1
 Skin Sensitization – Category 1
 Aspiration Hazard - Category 1

LABEL SYMBOLS:



SIGNAL WORD:

Danger

CLASSIFICATION INFORMATION:

Combustible Liquid
 Causes severe skin burns and eye damage.
 May cause an allergic skin reaction.
 May be fatal if swallowed and enters airways.

PREVENTION

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

Do not breathe fumes, mists, vapours or spray.

Wash skin thoroughly after handling.

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

PRECAUTIONARY STATEMENTS:

Contaminated work clothing should not be allowed out of the workplace.

RESPONSE

IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do not induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water (or shower). Wash contaminated clothing before reuse.

If skin irritation occurs: Get medical attention.



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IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.

In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.

STORAGE

Store locked up in a well ventilated place.

DISPOSAL

Dispose of contents and containers in accordance with local, provincial and/or federal requirements.

OTHER HAZARDS: Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
Fatty acids, tall-oil, reaction products with diethylenetriamine	61790-69-0	40-50%
Distillates, hydrotreated light	64742-47-8	50-60%
Dipropylene glycol monomethyl ether	34590-94-8	1.5-5%

SECTION 4: FIRST AID MEASURES

SKIN CONTACT:	Remove contaminated clothing and footwear. Thoroughly wash affected area with soap and water for 15 – 20 minutes. If irritation or rash develops obtain medical attention.
EYE CONTACT:	Immediately flush with gently flowing warm water for minimum 30 minutes. When flushing is completed, obtain medical attention.
INGESTION:	Do not induce vomiting. If vomiting occurs, keep head below hips to reduce risk of aspiration of vomitus into lungs. Get immediate medical attention.
INHALATION:	Move to fresh air. Apply oxygen, by trained personnel, or artificial respiration if required. Obtain immediate medical attention.
MOST IMPORTANT SYMPTOMS/EFFECTS:	May cause severe eye irritation. May cause skin irritation. Aspiration during swallowing or vomiting may cause harm.
IMMEDIATE MEDICAL ATTENTION/SPECIAL TREATMENT:	If swallowed, do not induce vomiting. Get immediate medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Carbon dioxide, dry chemical, water spray or foam.
UNSUITABLE EXTINGUISHING MEDIA:	Do not use direct water stream: May spread fire.
SPECIFIC FIRE HAZARDS:	Combustible liquid. Under fire conditions closed containers may rupture or explode. Vapours are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.



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HAZARDOUS COMBUSTION

Oxides of carbon, oxides of nitrogen, hydrocarbons.

PRODUCTS:**SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS:**

Full protective equipment and self-contained breathing apparatus required for fire-fighting personnel. Remove containers from fire area, or cool with water spray, if possible.

SECTION 6: ACCIDENTAL RELEASE MEASURES**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**

Evacuate area and eliminate ignition sources. Enter area only if wearing appropriate safety equipment. Avoid all bodily contact with spilled material. Stop leak if possible to do so without risk.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Small spills; soak up with absorbent material and collect in approved containers for disposal. Large spills; dike to contain spill. Recover uncontaminated material for repackaging. Collect contaminated material and absorbents in approved container for disposal. Flush spill area with water. Collect flush water in an approved container for disposal. Do not allow material to enter storm sewers or waterways.

SECTION 7: HANDLING AND STORAGE**PRECAUTIONS FOR SAFE HANDLING**

Avoid ingestion. Practice reasonable caution and personal cleanliness. Avoid skin and eye contact. Wash thoroughly after handling. Clean contaminated clothing and footwear before reuse. Avoid breathing mists and vapours. Use only non-sparking tools. Keep away from open flames, hot surfaces and sources of ignition. Static ignition hazard can result from handling and use. Electrically bond and ground all container, personnel and equipment before transfer or use of material.

CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in a cool area separate from incompatible materials and oxidizers. Store unused material in original container. Keep container tightly closed when not in use. Handle only in area free of ignition sources. Ground containers when transferring material. Empty containers, which have not been cleaned and purged, contain residual hazardous material and should be handled and stored as if full.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**INGREDIENT****EXPOSURE LIMITS**

Fatty acids, tall-oil, reaction products with diethylenetriamine
Distillates, hydrotreated light
Dipropylene glycol monomethyl ether

Not available
Not available
ACGIH TLV – TWA = 100ppm

ENGINEERING CONTROLS:

Local exhaust ventilation, process enclosure or other engineering controls as required to maintain vapour concentration below TLV's. Ensure exhaust system is explosion proof.

PERSONAL PROTECTIVE MEASURES**RESPIRATORY PROTECTION:**

In absence of proper ventilation, recommend approved respirator with organic vapour/mist cartridges.



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PROTECTIVE GLOVES: Viton gloves recommended.
EYE PROTECTION: Chemical goggles recommended.
OTHER PROTECTIVE EQUIPMENT (SPECIFY): Suggest the use of a chemical apron and/or chemical resistant clothing. Ensure eye-wash station and emergency shower are available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Opaque amber liquid
ODOUR: Characteristic odour
ODOUR THRESHOLD: Not available
pH: Not available
MELTING POINT / FREEZING POINT: Not determined
BOILING POINT / RANGE: >150°C
FLASH POINT: 75°C (estimated)
EVAPORATION RATE: Not available
FLAMMABILITY: Combustible
FLAMMABILITY / EXPLOSIVE LIMITS: Not available
VAPOUR PRESSURE: Not available
VAPOUR DENSITY: Not available
RELATIVE DENSITY: 0.94
SOLUBILITY: Insoluble in water
PARTION COEFFICIENT: Not available
AUTO-IGNITION TEMPERATURE: Not available
DECOMPOSITION TEMPERATURE: Not available
VISCOSITY: Not available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: No information available
CHEMICAL STABILITY: Stable under normal conditions
POSSIBILITY OF HAZARDOUS REACTIONS: Polymerization will not occur
CONDITIONS TO AVOID: Heat, sparks or open flames.
INCOMPATIBLE MATERIALS: Acids, salts of strong acids or bases, strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Aldehydes, carbon dioxide, carbon monoxide, hydrocarbons, nitrogen oxides, ketones.

SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY: Not available

COMPONENT TOXICITY

COMPONENT	LD50 ORAL	LD50 DERMAL	LC50 INHALATION
Fatty acids, tall-oil, reaction products with diethylenetriamine	>2000 mg/kg (rat)	Not available	Not available



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Distillates, hydrotreated light	>5000 mg/kg (rat)	>5000 mg/kg (rabbit)	>5 mg/L/8hr (rat)
Dipropylene glycol monomethyl ether	>5000 mg/kg (rat)	>5000 mg/kg (rat)	Not available

SKIN CONTACT:	May cause severe irritation including redness and swelling. Prolonged contact may cause burns. Repeated or prolonged contact may cause dermatitis. May cause allergic skin reaction.
EYE CONTACT:	Severe irritant: May cause redness, inflammation and watering upon contact. Prolonged contact may cause damage.
INGESTION:	May cause gastrointestinal irritation.
INHALATION:	May cause irritation of the respiratory tract. Prolonged excessive exposure may cause adverse effects including central nervous system depression. Aspiration in to lungs may occur during swallowing or vomiting, causing lung damage or even death due to chemical pneumonia.
CARCINOGENICITY:	No information available.
TERATOGENICITY:	No information available.
REPRODUCTIVE TOXICITY:	No information available.
MUTAGENICITY:	No information available.
CHRONIC TOXICITY:	No information available.
TARGET ORGAN EFFECTS:	No information available.

SECTION 12: ECOLOGICAL INFORMATION

INGREDIENT	LC50	LC50	EC50
Fatty acids, tall-oil, reaction products with diethylenetriamine	0.19 mg/L/96hr (danio rerio)	0.18 mg/L/48hr (daphnia magna)	0.477 mg/L/72hr (green algae)
Distillates, hydrotreated light	>1000 mg/L/96hr (oncorhynchus mykiss)	>1000 mg/L/48hr (daphnia magna)	>1000 mg/L/72hr (green algae)
Dipropylene glycol monomethyl ether	>10,000 mg/L/96hr (pimephales promelas)	1919 mg/L/48hr (daphnia magna)	>969 mg/L/72hr (green algae)

PERSISTENCE AND DEGRADABILITY:	Ingredients will biodegrade over time. No persistence information available.
BIOACCUMULATIVE POTENTIAL:	No information available.
MOBILITY IN SOIL:	No information available.
OTHER ADVERSE EFFECTS:	Very toxic to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose/incinerate in accordance with federal, state and local regulations. Do not dump into sewer drains, watercourses or on the soil. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Empty containers, which have not been cleaned and purged, contain residual hazardous material and must be disposed of, or recycled, according to local regulations.



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SECTION 14: TRANSPORTATION INFORMATION

UN NUMBER: UN3265
PROPER SHIPPING NAME: Corrosive liquid, acidic, organic, N.O.S. (fatty acids, tall-oil, reaction products with diethylenetriamine)
CLASS: 8
PACKING GROUP: III
IMDG HAZARDS: Marine pollutant (fatty acids, tall-oil, reaction products with diethylenetriamine)
BULK TRANSPORT: Not applicable
SPECIAL PRECAUTIONS: Not applicable

SECTION 15: REGULATORY INFORMATION

DSL: All ingredients are listed on the DSL.
WHMIS CLASS: B3, D2B
TSCA: All ingredients are listed or exempt from listing.

SECTION 16. OTHER INFORMATION

SDS Prepared By Product Safety Committee
Phone No. 403-262-5955
Date of Preparation Dec 18, 2018

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