

SECTION 1. IDENTIFICATION

Product Identifier ONYXMUL S
Product Family Emulsifiers
Recommended Use Secondary Emulsifier
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

Skin corrosion/skin irritation – Category 2

Serious Eye Damage/Eye Irritation – Category 2

CLASSIFICATION:

Carcinogenicity – Category 1B

Aspiration Hazard - Category 1

LABEL SYMBOLS:



SIGNAL WORD:

Danger
Causes skin irritation.
Causes serious eye damage.
May cause cancer.
May be fatal if swallowed and enters airways.

CLASSIFICATION INFORMATION:

PREVENTION:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash exposed skin thoroughly after handling.
Wear protective gloves, clothing and eye protection.

RESPONSE:

IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do not induce vomiting.
IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical attention.
Take off contaminated clothing and wash it before reuse.
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 eye irritation persists: Get medical attention.
If exposed or concerned: Call a doctor.

PRECAUTIONARY STATEMENTS:

STORAGE:

Store locked up.

DISPOSAL:



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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 (w/w)
Gas oils (petroleum), straight-run	64741-43-1	50 - 60%
Polycyclic Aromatic Hydrocarbons	130498-29-2	5 - 10%
Ethylene glycol monobutyl ether (EGMBE)(Butyl cellulose)	111-76-2	1 - 5%
Butyl carbitol	112-34-5	1 - 5%

SECTION 4. FIRST-AID MEASURES

SKIN CONTACT:	Remove contaminated clothing and footwear. Thoroughly wash affected area with soap and water. If irritation develops obtain medical attention.
EYE CONTACT:	Immediately flush with gently flowing warm water for minimum 15 minutes or until irritation ceases. If irritation persists obtain medical attention.
INGESTION:	Do not induce vomiting or give liquids unless directed to do so by medical personnel. If vomiting occurs, keep head below hips to reduce risk of aspiration of vomitus into lungs. If immediate medical attention is not available contact POISON CONTROL CENTER.
INHALATION:	Move to fresh air. Apply oxygen or artificial respiration if required. Obtain immediate medical attention.
MOST IMPORTANT SYMPTOMS/EFFECTS:	May cause skin and eye irritation. Aspiration during swallowing or vomiting may cause harm. Repeated contact may cause cancer.
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:	Although not classed as flammable, or combustible, this product will burn. Product vapours are heavier than air and may travel considerable distances to a source of ignition and flash back. Vapours may spread along the ground and enter sewers, basements and other confined spaces. Product floats on water and is capable of creating a fire hazard along path of runoff. Product sensitivity to neither mechanical impact nor static charge has been determined.
HAZARDOUS COMBUSTION PRODUCTS:	Thermal decomposition products include, but are not limited to: Oxides of carbon, oxides of sulfur and hydrocarbons.



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SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS: Full protective equipment and self-contained breathing apparatus required for firefighting 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 (chemical resistant clothing, boots, gloves, etc). 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 dispose in approved containers.
Large spills: Dike to contain spill. Collect spilled material by vacuum. 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. Avoid skin and eye contact. Practice reasonable caution and personal cleanliness. Wash thoroughly after handling. Clean contaminated clothing and footwear before reuse. Avoid breathing mists and vapours. Handle only in area free of ignition sources. Ground containers when transferring material.

CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in a cool area separate from incompatible materials and ignition sources. Store unused material in original container. Keep container tightly closed when not in use. 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

COMPONENT:	EXPOSURE LIMIT
Gas oils (petroleum), straight-run	Not available
Polycyclic Aromatic Hydrocarbons	OSHA TWA = 0.2 mg/m ³
Ethylene glycol monobutyl ether	20 ppm
Butyl carbitol	Not established

ENGINEERING CONTROLS: Local exhaust ventilation, process enclosure or other engineering controls as required to keep vapour concentration below TLV's.

PERSONAL PROTECTIVE MEASURES

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

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 eyewash station and emergency shower are available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Brown liquid
ODOUR:	Oily odor
ODOUR THRESHOLD:	Not available
pH:	Not available
MELTING POINT / FREEZING POINT:	Not available
BOILING POINT / RANGE:	Not available
FLASH POINT:	>93.3°C (based on ingredient information)
EVAPORATION RATE:	Not available
FLAMMABILITY:	Must be heated before ignition.
FLAMMABILITY / EXPLOSIVE LIMITS:	Not available
VAPOUR PRESSURE:	Not available
VAPOUR DENSITY:	Not available
RELATIVE DENSITY:	0.93
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:	Strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS:	Not available.

SECTION 11. TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY:	Not available		
	COMPONENT TOXICITY		
COMPONENT	LD50 ORAL	LD50 DERMAL	LC50 INHALATION
Gas oils (petroleum), straight-run	>5000 mg/kg (rat)	>2000 mg/kg (rabbit)	1700 mg/m ³ (rat)
Polycyclic Aromatic Hydrocarbons	Not available	Not available	Not available
Ethylene glycol monobutyl ether	1300 mg/kg (rat)	>2000 (guinea pig)	450 ppm/4hr
Butyl carbitol	3305 mg/kg (rat)	2764 mg/kg (rabbit)	Not available

SKIN CONTACT:	May cause mild to moderate skin irritation including redness and swelling. May cause more severe response under clothing, gloves, etc. Repeated or prolonged contact may cause dermatitis. Prolonged skin contact with petroleum products is associated with skin cancer.
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EYE CONTACT: Severe irritant: May cause redness, inflammation and watering upon contact. High vapour concentrations may cause irritation.

INGESTION: May cause gastrointestinal irritation. May be fatal if swallowed and enters airways.

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: May cause cancer. This material contains Polycyclic Aromatic Hydrocarbons (PAHs), some of which are animal carcinogens.

TERATOGENICITY: No information available.

REPRODUCTIVE TOXICITY: No information available.

MUTAGENICITY: No information available.

CHRONIC TOXICITY: This product contains Polycyclic Aromatic Hydrocarbons. Prolonged contact with these compounds has been associated with the induction of skin and lung tumours, anemia, disorders of the liver, bone marrow and lymphoid tissues. EGMBE has caused significant health effects in animals following long-term exposure to relatively low concentrations.

TARGET ORGAN EFFECTS: Skin, eyes, bone marrow and liver.

SECTION 12. ECOLOGICAL INFORMATION

ECOTOXICITY: Product information has not been determined.

COMPONENT	NOEL (algae)	LC50 (fish)	EC50 (daphnia)
Gas oils (petroleum), straight-run	Not available	Not available	Not available
Polycyclic Aromatic Hydrocarbons	Not available	Not available	Not available
Ethylene glycol monobutyl ether	911 mg/L/72hr (green algae)	1474 mg/L/96 hr (rainbow trout)	1550 mg/kg/48hr (water flea)
Butyl carbitol	Not available	1300 mg/L/96hr (bluegill sunfish)	>100 mg/L/48hr (water flea)

PERSISTENCE AND DEGRADABILITY: No product information available.

BIOACCUMULATIVE POTENTIAL: No information available.

MOBILITY IN SOIL: No information available.

OTHER ADVERSE EFFECTS: No information available.

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. TRANSPORT INFORMATION

TDG:	Not regulated
DOT:	Not regulated
IATA:	Not regulated
IMDG:	Not regulated
UN NUMBER:	Not applicable
PROPER SHIPPING NAME:	Not applicable
CLASS:	Not applicable
PACKING GROUP:	Not applicable
IMDG HAZARDS:	Not applicable
BULK TRANSPORT:	Not applicable
SPECIAL PRECAUTIONS:	Not applicable

SECTION 15. REGULATORY INFORMATION

DSL:	All ingredients are listed on the DSL.
WHMIS CLASS:	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
Disclaimer	To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.