

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER:	BIOFOAM SUBZERO
OTHER MEANS OF IDENTIFICATION:	None
RECOMMENDED USE:	Drilling fluid additive
RESTRICTIONS ON USE:	None
SUPPLIER IDENTIFIER:	Di-Corp 8750-53 Ave Edmonton, AB T6E 5G2 780-440-4923
EMERGENCY PHONE NUMBER (24hr):	1-888-CANUTEC (226-8832), 613-996-6666 or *666 on a cellular phone

SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION:	Flammable Liquid - Category 2 Skin Corrosion / Irritation – Category 1 Serious Eye Damage / Eye Irritation - Category 1 STOT SE (Target Organs – CNS) - Category 3
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LABEL SYMBOLS:



SIGNAL WORD:

Danger
Flammable liquid and vapor.
Harmful if swallowed.

HAZARD STATEMENTS:

Causes skin irritation.
Causes serious eye damage.
May cause drowsiness or dizziness.
May damage fertility or the unborn child.
Causes damage to organs (eyes, nervous system).

OTHER HAZARDS:

None known.

PRECAUTIONARY STATEMENTS:

Prevention

Obtain special instructions before use. 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. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves, clothing and eye and face protection. Wash exposed skin thoroughly after handling. Do not breathe fumes, mists or vapours. Use only outdoors or in a well-ventilated area.

Response

If exposed or concerned: Get medical attention.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation occurs: Get medical attention. Wash contaminated clothing 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 SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a

POISON CENTER or doctor if you feel unwell.

In case of fire: Use CO₂, dry chemical or foam for extinction.

Storage

Store in a well-ventilated place. Keep cool. Store locked up.

Disposal

Dispose of contents/container in accordance with local, provincial or federal regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION (w/w)
Benzenesulfonic acid, 4-C ₁₀₋₁₄ -alkyl derivs., compds with ethanolamine	85995-82-0	40 – 70%
Methanol	67-56-1	15 – 40%

SECTION 4: FIRST AID MEASURES

SKIN CONTACT:	Immediately remove contaminated clothing and footwear. Wash skin thoroughly with soap and water for 15 minutes. If irritation persists, or prolonged contact has occurred, obtain medical attention.
EYE CONTACT:	Immediately flush with gently flowing warm water for minimum 30 minutes holding eyelids open. Remove contact lens, if present. When flushing is complete obtain medical attention.
INGESTION:	Contact a physician or poison center immediately. Do not induce vomiting unless directed to do so by a physician or poison control center. Rinse mouth and give 1-2 glasses of water. If vomiting occurs, keep head below hips to prevent aspiration, and re-administer water. Never give anything by mouth if victim is unconscious, rapidly losing consciousness or convulsing. Obtain medical attention.
INHALATION:	Move to fresh air. Apply oxygen or artificial respiration if required. Obtain immediate medical attention.
MOST IMPORTANT SYMPTOMS / EFFECTS:	This product contains methanol which is poisonous and can cause nausea, headache, visual disturbances (including blindness), CNS depression or death when inhaled, ingested or absorbed through the skin. Effects can occur following an 8 – 24 hour latent period. Ingestion of as little as 10 mL of methanol can cause blindness and 30 mL can cause death if victim is not treated. This product may cause severe eye irritation. Eye damage may result if prompt first aid is not available.
IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT:	For eye and skin contact immediately flush with water. If ingested contact POISON CENTER immediately or transport to medical facility. If inhaled, treat symptomatically.

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:	Flammable liquid and vapour. Can accumulate in confined spaces. Under fire conditions closed containers may rupture or explode. Flame may be invisible during the day. Can ignite at room temperature.
HAZARDOUS COMBUSTION PRODUCTS:	Oxides of carbon, oxides of nitrogen, oxides of sulfur, hydrocarbons, smoke and irritating vapors as products of incomplete combustion.
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 dispose in approved containers. 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. Do not breathe mist or vapours. Wash thoroughly after handling. Practice reasonable caution and personal cleanliness. Launder exposed clothing before reuse. Avoid skin and eye contact. Wear suitable protection for eyes and skin when handling. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in dry, well ventilated FLAMMABLES area away from ignition sources and oxidizers. Keep container tightly closed when not in use. Empty containers contain residual hazardous material and must be handled and stored as if full.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:

Methanol: ACGIH TWA = 200 ppm (skin).

No other components have listed exposure limits.

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:

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines.

Viton gloves recommended.

PROTECTIVE GLOVES:

EYE PROTECTION:

Chemical goggles and/or face shield 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:

Orange liquid

ODOUR:

Alcohol odor

ODOUR THRESHOLD:

Not determined

pH:

6 – 8

MELTING POINT / FREEZING POINT:

Not determined

BOILING POINT / RANGE:

Not determined

FLASH POINT:

28.3°C (CC)

EVAPORATION RATE:

Not determined

FLAMMABILITY:

Flammable

FLAMMABILITY / EXPLOSIVE LIMITS:

Not available

VAPOUR PRESSURE:

Not available

VAPOUR DENSITY:

Not available

RELATIVE DENSITY:

Not available

SOLUBILITY: Miscible in water
 PARTITION COEFFICIENT: Not available
 AUTO-IGNITION TEMPERATURE: Not available
 DECOMPOSITION TEMPERATURE: Not available
 VISCOSITY: Not available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Nonreactive under normal conditions.
 CHEMICAL STABILITY: Stable under normal conditions.
 POSSIBILITY OF HAZARDOUS REACTIONS: None known.
 CONDITIONS TO AVOID: Open flame and ignition sources.
 INCOMPATIBLE MATERIALS: Avoid strong acids, strong bases, strong oxidizers and water reactive materials.
 HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce oxides of carbon, oxides of sulfur, oxides of nitrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY: Not available

COMPONENT	COMPONENT TOXICITY		
	LD50 ORAL	LD50 DERMAL	LC50 INHALATION
Methanol	5628 mg/kg (rat)	15,800 mg/kg (rabbit)	64,000 ppm/4hr (rat)
Benzenesulfonic acid, 4-C10-14-alkyl derivs., compds with ethanolamine	Not available	Not available	Not available

SKIN CONTACT: May cause irritation. Prolonged, or repeated, contact with skin may cause irritation or dermatitis. Contains methanol which can be absorbed through the skin causing effects as described in INGESTION.

EYE CONTACT: Will cause irritation and redness. Prolonged contact can cause opaqueness of cornea and possible tissue damage.

INGESTION: This product causes irritation to the mouth, throat and will cause abdominal pain. Poisonous, causes nausea, headache, and visual disturbances ranging from double vision to blindness; may result in central nervous system depression or death. Effects may be delayed up to 12 hours after ingestion.

INHALATION: High vapour concentrations are irritating to the eyes and respiratory tract. May cause headaches, sleepiness, nausea, giddiness, loss of consciousness, digestive and visual disturbances and death. Inhalation of liquids may cause bronchopneumonia or pulmonary edema.

CARCINOGENICITY: No information available.

TERATOGENICITY: Methanol: Fetotoxic and teratogenic effects observed in animals at concentrations that did not produce maternal toxicity.

REPRODUCTIVE TOXICITY: No information available.

MUTAGENICITY: No information available.

CHRONIC TOXICITY: No information available.

TARGET ORGAN EFFECTS: Methanol: STOT – single exposure: Causes CNS effects and eye (visual) effects which may include blindness.

SECTION 12: ECOLOGICAL INFORMATION

PRODUCT ECOTOXICITY: No product information available.

COMPONENT ECOTOXICITY

INGREDIENT	COMPONENT ECOTOXICITY		
	LC50 Fish	EC50 Daphnia	EC50 Algae
Methanol	15,400 – 29,400 mg/L/96 hr	>10,000 mg/L/48 hr	22,000 mg/L/72 hr
Benzenesulfonic acid, 4-C10-14-alkyl derivs., compds with ethanolamine	Not available	Not available	Not available
PERSISTENCE AND DEGRADABILITY:	No information available.		
BIOACCUMULATIVE POTENTIAL:	Bioaccumulation unlikely.		
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. Offer surplus and non-recyclable material to a licensed disposal company. 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.

SECTION 14: TRANSPORTATION INFORMATION

TDG:	Regulated
DOT:	Regulated
IATA:	Regulated
IMDG:	Regulated
UN NUMBER:	UN1230
PROPER SHIPPING NAME:	METHANOL, SOLUTION
CLASS:	3 (6.1)
PACKING GROUP:	II
IMDG HAZARDS:	Not available
BULK TRANSPORT:	Not applicable
SPECIAL PRECAUTIONS:	Not available

SECTION 15: REGULATORY INFORMATION

DSL:	All ingredients are listed on the DSL.
WHMIS CLASS:	B2, D1B, D2A, D2B
TSCA:	All ingredients are listed or exempt from listing.

SECTION 16: OTHER INFORMATION

REVISION DATE:	June 27, 2018
REPLACES:	None

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