

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER: **EMUL-BREAK**
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: 780-468-4064

SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION: Physical hazards:
Flammable liquids - Category 2
Physical hazards not otherwise classified - Category 1
Health hazards:
Acute toxicity, oral - Category 4
Acute toxicity, dermal - Category 4
Acute toxicity, inhalation - Category 3
Skin corrosion/irritation - Category 1A
Serious eye damage/eye irritation - Category 1
Carcinogenicity - Category 1B
Reproductive toxicity - Category 1
Specific target organ toxicity following single exposure - Category 1
Specific target organ toxicity following repeated exposure - Category 1
Aspiration hazard - Category 1
Health hazards not otherwise classified - Category 1



SIGNAL WORD: DANGER

CLASSIFICATION INFORMATION: Highly flammable liquid and vapour. Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapour. May cause flash fire or explosion. Harmful if swallowed or in contact with skin. Toxic if inhaled. Causes severe skin burns and eye damage. May cause cancer. May damage fertility or the unborn child. May be fatal if swallowed and enters airways. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure.

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. Use explosion-proof electrical/ventilating/lighting equipment. Ground and bond container and receiving equipment. These alone may be insufficient to remove static electricity. Use non-sparking tools. Take action to prevent static discharges. Do not breathe mist or vapour. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye

protection/face protection.

RESPONSE

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTRE/doctor.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Take off contaminated clothing and wash it before reuse.

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

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

In case of fire: Use appropriate media to extinguish. In case of leakage, eliminate all ignition sources.

STORAGE

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

DISPOSAL

Dispose of contents/container in accordance with local, regional, national, and/or international regulations.

OTHER HAZARDS:

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION (w/w)
Benzene, dimethyl- (xylene)	1330-20-7	51%
Distillates (petroleum), catalytic reformer fractionator residue, low-boiling	68477-31-6	9%
Ethylbenzene	100-41-4	7%
Methyl alcohol (methanol)	67-56-1	5%
Butylamine	109-73-9	5%
Naphthalene	91-20-3	1%
Toluene	108-88-3	1%
Sulfuric acid	7664-93-9	1%

SECTION 4: FIRST AID MEASURES

SKIN CONTACT:

Take off immediately all contaminated clothing. Rinse skin with water/shower. If irritation persists, or prolonged contact has occurred, obtain medical attention. Wash contaminated clothing before reuse.

EYE CONTACT:

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control centre immediately.

INGESTION:

Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting unless directed to do so by a physician or poison control center. If vomiting occurs, keep head below hips to prevent aspiration. Re-administer water. Never give anything by mouth if victim is unconscious, rapidly losing consciousness or convulsing.

INHALATION:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTRE or doctor/physician.

MOST IMPORTANT SYMPTOMS / EFFECTS:

Aspiration may cause pulmonary oedema and pneumonitis. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing,

**IMMEDIATE MEDICAL ATTENTION /
SPECIAL TREATMENT:**

redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Prolonged exposure may cause chronic effects.

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

Water fog. Foam. Carbon dioxide (CO₂). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

UNSUITABLE EXTINGUISHING MEDIA:

Do not use water jet as an extinguisher, as this will spread the fire.

SPECIFIC FIRE HAZARDS:

Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

HAZARDOUS COMBUSTION PRODUCTS:

Not available

**SPECIAL PROTECTIVE EQUIPMENT &
PRECAUTIONS:**

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapour. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent entry into waterways, sewer, basements or confined areas. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water. Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

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.

CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS). Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

CHEMICAL NAME	EXPOSURE LIMITS (ACGIH)
Benzene, dimethyl-	STEL = 150 ppm
Distillates (petroleum), catalytic reformer fractionator residue, low-boiling	Not available
Ethylbenzene	TWA = 20 ppm
Methyl alcohol	STEL = 250 ppm
Butylamine	TWA = 100 ppm
Naphthalene	TWA = 10 ppm
Toluene	TWA = 20 ppm
Sulfuric acid	Not available

ENGINEERING CONTROLS: Explosion-proof general and local exhaust ventilation. 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 MEASURES

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

PROTECTIVE GLOVES: Wear appropriate chemical resistant gloves (Viton recommended). Suitable gloves can be recommended by the glove supplier.

EYE PROTECTION: Chemical splash goggles required. Do not wear contact lenses.

OTHER PROTECTIVE EQUIPMENT (SPECIFY): Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Eye wash facilities and emergency shower must be available when handling this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Dark red liquid
ODOUR:	Aromatic
ODOUR THRESHOLD:	Not available
pH:	11.5
MELTING POINT / FREEZING POINT:	-35°C
BOILING POINT / RANGE:	117°C (estimated)
FLASH POINT:	11.1°C
EVAPORATION RATE:	Not available
FLAMMABILITY:	Not applicable
FLAMMABILITY / EXPLOSIVE LIMITS:	Not available
VAPOUR PRESSURE:	Not available
VAPOUR DENSITY:	Not available
RELATIVE DENSITY:	Not available
SOLUBILITY:	Not available
PARTION COEFFICIENT:	Not available

AUTO-IGNITION TEMPERATURE: Not available
 DECOMPOSITION TEMPERATURE: Not available
 VISCOSITY: Not available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: Non-reactive under normal conditions of use, storage and transport.
 CHEMICAL STABILITY: Stable under normal conditions of use, storage and transport.
 POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.
 CONDITIONS TO AVOID: Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures above the flash point. Avoid contact with incompatible materials.
 INCOMPATIBLE MATERIALS: Strong acids. Strong oxidizing agents. Halogens.
 HAZARDOUS DECOMPOSITION PRODUCTS: Not available.

SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY: Not available

CHEMICAL NAME	LD50 ORAL	LD50 DERMAL	LC50 INHALATION
Benzene, dimethyl-Distillates (petroleum), catalytic reformer fractionator residue, low-boiling	3523-8000 mg/kg (rat)	Not available	Not available
Ethylbenzene	3500 mg/kg (rat)	Not available	Not available
Methyl alcohol	5628 mg/kg (rat)	15800 mg/kg (rabbit)	64000 ppm/4 hr (rat)
Butylamine	Not available	850 mg/kg (rabbit)	Not available
Naphthalene	490 mg/kg (rat)	>2 g/kg (rabbit)	Not available
Toluene	Not available	Not available	Not available
Sulfuric acid	Not available	Not available	Not available

SKIN CONTACT: Causes severe skin burns. Not expected to cause skin sensitization.
 EYE CONTACT: Causes severe eye irritation
 INGESTION: May cause irritation to the mouth, throat and will cause abdominal pain. Causes nausea, headache and visual disturbances ranging from double vision to blindness (contains methanol).
 INHALATION: Not expected to cause respiratory sensitization.
 CARCINOGENICITY: Ethylbenzene: ACGIH A3 Confirmed animal carcinogen with unknown relevance to humans.
 Naphthalene: ACGIH A3 Confirmed animal carcinogen with unknown relevance to humans.
 Ethylbenzene: IARC 2B Possibly carcinogenic to humans.
 Naphthalene: IARC 2B Possibly carcinogenic to humans.
 Naphthalene: NTP Reasonably anticipated to be a human carcinogen.
 TERATOGENICITY: Methanol: Fetotoxic and teratogenic effects observed in animals at concentrations that did not produce maternal toxicity.
 REPRODUCTIVE TOXICITY: Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. May damage fertility or the unborn child.
 MUTAGENICITY: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
 CHRONIC TOXICITY: Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

TARGET ORGAN EFFECTS: Causes damage to organs through prolonged or repeated exposure.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: Toxic to aquatic life with long lasting effects.

CHEMICAL NAME	LC50 (fish)	EC50 (crustacea)
Benzene, dimethyl-	7.711 – 5.591 mg/L/96 hr (bluegill)	Not available
Distillates (petroleum), catalytic reformer fractionator residue, low-boiling	Not available	Not available
Ethylbenzene	7.5 – 11 mg/L/96 hr (fathead minnow)	1.37 – 4.4 mg/L/48 hr (water flea)
Methyl alcohol	>100 mg/L/96 hr (fathead minnow)	>10000 mg/L/48 hr (water flea)
Butylamine	24 mg/L/96 hr (inland silverside)	>100 mg/L/48 hr (water flea)
Naphthalene	1.11 – 1.68 mg/L/96 hr (pink salmon)	1.09 – 3.4 mg/L/48 hr (water flea)
Toluene	8.11 mg/L/96 hr (coho salmon)	5.46 – 9.83 mg/L/48 hr (water flea)
Sulfuric acid	Not applicable	Not applicable

PERSISTENCE AND DEGRADABILITY: No information available.

BIOACCUMULATIVE POTENTIAL: Not available.

MOBILITY IN SOIL: Not available.

OTHER ADVERSE EFFECTS: The product contains volatile organic compounds which have a photochemical ozone creation potential.

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:	UN2924
PROPER SHIPPING NAME:	FLAMMABLE LIQUIDS, CORROSIVE, N.O.S. (xylene, butylamine)
CLASS:	3 (8)
PACKING GROUP:	II
IMDG HAZARDS:	Contains a marine pollutant (naphthalene).
BULK TRANSPORT:	Not available
SPECIAL PRECAUTIONS:	Not available

SECTION 15: REGULATORY INFORMATION

DSL: All ingredients are on the list.

WHMIS CLASS: B2; D1B; D2B; E
TSCA: All ingredients are listed.

SECTION 16: OTHER INFORMATION

REVISION DATE: October 31, 2018

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