

## MATERIAL SAFETY DATA SHEET

Product Trade Name: **ENVIRO-TORQ®**

Revision Date: 04-Jan-2011

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Trade Name:** ENVIRO-TORQ®  
**Synonyms:** None  
**Chemical Family:** Blend  
**Application:** Lubricant

**Manufacturer/Supplier** Baroid Fluid Services  
Product Service Line of Halliburton  
P.O. Box 1675  
Houston, TX 77251  
Telephone: (281) 871-4000  
Emergency Telephone: (281) 575-5000

**Prepared By** Chemical Compliance  
Telephone: 1-580-251-4335  
e-mail: fdunexchem@halliburton.com

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	PERCENT	ACGIH TLV-TWA	OSHA PEL-TWA
Isopropanol	67-63-0	10 - 30%	200 ppm	400 ppm
Diethanolamine	111-42-2	1 - 5%	2 mg/m <sup>3</sup>	Not applicable
Hydrotreated light petroleum distillate	64742-47-8	10 - 30%	200 mg/m <sup>3</sup>	Not applicable

### 3. HAZARDS IDENTIFICATION

**Hazard Overview** May cause eye burns. May cause skin and respiratory irritation. May cause headache, dizziness, and other central nervous system effects. May cause allergic skin and respiratory reaction. May be harmful if swallowed. Flammable.

### 4. FIRST AID MEASURES

**Inhalation** If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

**Skin** Wash with soap and water. Get medical attention if irritation persists. Remove contaminated clothing and launder before reuse.

**Eyes** In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

**Ingestion** Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

**Notes to Physician** Not Applicable

## 5. FIRE FIGHTING MEASURES

Flash Point/Range (F):	70
Flash Point/Range (C):	21
Flash Point Method:	PMCC
Autoignition Temperature (F):	Not Determined
Autoignition Temperature (C):	Not Determined
Flammability Limits in Air - Lower (%):	Not Determined
Flammability Limits in Air - Upper (%):	Not Determined

**Fire Extinguishing Media** Carbon Dioxide, Dry Chemicals, Foam.

**Special Exposure Hazards** Use water spray to cool fire exposed surfaces. Avoid spraying water directly into storage containers due to danger of boilover.

**Special Protective Equipment for Fire-Fighters** Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

**NFPA Ratings:** Health 1, Flammability 3, Reactivity 0  
**HMS Ratings:** Health 1, Flammability 3, Reactivity 0

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautionary Measures** Use appropriate protective equipment.

**Environmental Precautionary Measures** Prevent from entering sewers, waterways, or low areas.

**Procedure for Cleaning / Absorption** Isolate spill and stop leak where safe. Remove ignition sources and work with non-sparking tools. Contain spill with sand or other inert materials. Scoop up and remove.

## 7. HANDLING AND STORAGE

**Handling Precautions** Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Ground and bond containers when transferring from one container to another.

**Storage Information** Store away from oxidizers. Keep from heat, sparks, and open flames. Keep container closed when not in use. Product has a shelf life of 36 months.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls** Use in a well ventilated area. Local exhaust ventilation should be used in areas without good cross ventilation.

**Respiratory Protection** Organic vapor respirator.  
In high concentrations, supplied air respirator or a self-contained breathing apparatus.

**Hand Protection** Nitrile gloves. Butyl rubber gloves. Neoprene gloves.

**Skin Protection** Rubber apron. Rubber boots.

**Eye Protection** Chemical goggles; also wear a face shield if splashing hazard exists.

**Other Precautions** Eyewash fountains and safety showers must be easily accessible.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Dark black red
Odor:	Sharp Acrid
pH:	5.6
Specific Gravity @ 20 C (Water=1):	0.936
Density @ 20 C (lbs./gallon):	7.8
Bulk Density @ 20 C (lbs/ft3):	Not Determined
Boiling Point/Range (F):	302
Boiling Point/Range (C):	150
Freezing Point/Range (F):	-15
Freezing Point/Range (C):	-26
Vapor Pressure @ 20 C (mmHg):	0.8 @ 38C
Vapor Density (Air=1):	Not Determined
Percent Volatiles:	Not Determined
Evaporation Rate (Butyl Acetate=1):	Not Determined
Solubility in Water (g/100ml):	Partially soluble
Solubility in Solvents (g/100ml):	Not Determined
VOCs (lbs./gallon):	Not Determined
Viscosity, Dynamic @ 20 C (centipoise):	25-60
Viscosity, Kinematic @ 20 C (centistokes):	Not Determined
Partition Coefficient/n-Octanol/Water:	Not Determined
Molecular Weight (g/mole):	Not Determined

## 10. STABILITY AND REACTIVITY

Stability Data:	Stable
Hazardous Polymerization:	Will Not Occur
Conditions to Avoid	None known.
Incompatibility (Materials to Avoid)	Strong oxidizers.
Hazardous Decomposition Products	Oxides of nitrogen. Oxides of sulfur. Carbon monoxide and carbon dioxide.
Additional Guidelines	Not Applicable

## 11. TOXICOLOGICAL INFORMATION

Principle Route of Exposure	Eye or skin contact, inhalation.
Inhalation	May cause respiratory irritation. May cause central nervous system depression including headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness. May cause allergic respiratory reaction.
Skin Contact	May cause severe skin irritation. May cause an allergic skin reaction.
Eye Contact	Causes severe eye burns.
Ingestion	May produce nervous system effects such as feeling of weakness, unsteady walk, and dilation of blood vessels.
Aggravated Medical Conditions	Liver and kidney disorders.
Chronic Effects/Carcinogenicity	Repeated overexposure may cause liver and kidney effects.

**Other Information**                      None known.

**Toxicity Tests**

**Oral Toxicity:**                      Not determined  
**Dermal Toxicity:**                Not determined  
**Inhalation Toxicity:**            Not determined  
**Primary Irritation Effect:**      Not determined  
**Carcinogenicity**                Not determined  
**Genotoxicity:**                    Not determined  
**Reproductive /  
Developmental Toxicity:**      Not determined

**12. ECOLOGICAL INFORMATION**

**Mobility (Water/Soil/Air)**        Not determined  
**Persistence/Degradability**      Not determined  
**Bio-accumulation**                Not determined

**Ecotoxicological Information**

**Acute Fish Toxicity:**            Not determined  
**Acute Crustaceans Toxicity:** TLM96: 33400 ppm (Mysidopsis bahia) SPP @ 4 ppb  
**Acute Algae Toxicity:**        Not determined

**Chemical Fate Information**      Not determined  
**Other Information**                Not applicable

**13. DISPOSAL CONSIDERATIONS**

**Disposal Method**                Disposal should be made in accordance with federal, state, and local regulations.  
**Contaminated Packaging**        Follow all applicable national or local regulations.

**14. TRANSPORT INFORMATION**

**Land Transportation**

**DOT**

UN1993, Flammable Liquid, N.O.S.(Contains Isopropanol, Petroleum Distillates), 3, II, (21.1 C)  
NAERG 128

**Canadian TDG**

Flammable Liquid, N.O.S.(Contains Isopropanol, Petroleum Distillates), 3, UN1993, II, (21.1 C)

**ADR**

UN1993,Flammable Liquid, N.O.S.(Contains Isopropanol, Petroleum Distillates), 3, II

## Air Transportation

### ICAO/IATA

UN1993,Flammable Liquid, N.O.S., 3, II  
(Contains Isopropanol, Petroleum Distillates Solution)

## Sea Transportation

### IMDG

UN1993,Flammable Liquid, N.O.S.(Contains Isopropanol, Petroleum Distillates), 3, II, (21.1 C)  
EmS F-E, S-E

## Other Shipping Information

Labels: Flammable Liquid

## 15. REGULATORY INFORMATION

### US Regulations

**US TSCA Inventory** All components listed on inventory or are exempt.

**EPA SARA Title III Extremely Hazardous Substances** Not applicable

**EPA SARA (311,312) Hazard Class** Acute Health Hazard  
Chronic Health Hazard  
Fire Hazard

**EPA SARA (313) Chemicals** This product contains toxic chemical(s) listed below which is(are) subject to the reporting requirements of Section 313 of Title III of SARA and 40 CFR Part 372:  
Isopropanol//67-63-0  
Diethanolamine//111-42-2

**EPA CERCLA/Superfund Reportable Spill Quantity** Not applicable.

**EPA RCRA Hazardous Waste Classification** If product becomes a waste, it does meet the criteria of a hazardous waste as defined by the US EPA, because of:  
  
Ignitability D001

**California Proposition 65** All components listed do not apply to the California Proposition 65 Regulation.

**MA Right-to-Know Law** One or more components listed.

**NJ Right-to-Know Law** One or more components listed.

**PA Right-to-Know Law** One or more components listed.

### Canadian Regulations

**Canadian DSL Inventory** Product contains one or more components not listed on inventory.

<b>16. OTHER INFORMATION</b>
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**The following sections have been revised since the last issue of this MSDS**

Not applicable

**Additional Information**

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Material Safety Data Sheet for this or other Halliburton products, contact Chemical Compliance at 1-580-251-4335.

**Disclaimer Statement**

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**\*\*\*END OF MSDS\*\*\***