

**T-2001****SECTION 1. IDENTIFICATION**

<b>Product Identifier</b>	T-2001
<b>Other Means of Identification</b>	Mixture of aromatic, aliphatic hydrocarbons, amine compounds and organic acid
<b>Product Family</b>	Demulsifier
<b>Recommended Use</b>	Drilling Fluid Additive.
<b>Supplier Identifier</b>	Bri-Chem Supply Ltd., Bay 4, 5510 - 3rd Street SE, Calgary, Alberta, T2H 1J9, Bri-Chem Supply, 403-252-5904, www.brichemsupply.com
<b>Emergency Phone No.</b>	ChemTrec, (800) 424-9300, 24/7

**SECTION 2. HAZARD IDENTIFICATION****Classification**

Flammable liquid - Category 3; Acute toxicity (Oral) - Category 1; Acute toxicity (Dermal) - Category 1; Acute toxicity (Inhalation) - Category 1; Serious eye damage - Category 1

**Label Elements**

Signal Word:

**DANGER!EXTREMELY CORROSIVE!**

Fatal if swallowed.

May cause severe irritation to nose, throat and respiratory tract.

Causes serious eye damage.

Brief contact with the skin may cause irritation. Prolonged contact may cause burns.

Corrosive effects may be delayed.

Flammable liquid and vapour.

Precautionary Statement(s):

Prevention:

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.

Do not breathe dust/fume/gas/mist/vapours/spray.

Do not get in eyes, on skin, or on clothing.

Wash hands and skin 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/eye protection/face protection.

In case of inadequate ventilation wear respiratory protection.

Response:

IF SWALLOWED: Immediately call a POISON CENTRE or doctor.

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IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
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 or doctor.  
Take off immediately all contaminated clothing and wash it before reuse.  
In case of fire: Use to extinguish.

**Storage:**

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

**Disposal:**

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

**Other Hazards**

In use may form flammable/explosive vapour-air mixture. Vapours can travel to a source of ignition and flash back.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Xylene (mixed isomers)	1330-20-7	40-70	
Ethylbenzene	100-41-4	5-40	
Methanol	67-56-1	5-15	
Isopropyl alcohol	67-63-0	1-10	
Alky alky sulphonic acid	N/A	1-5	
Sulfuric acid	007664-93-9	0.1-5	
Ethanolamine	141-43-5	0.1-5	
Distillates residue, low-boiling	68477-31-6	0.1-5	
Naphthalene	000091-20-3	0.1-5	
Benzene	71-43-2	trace	

### SECTION 4. FIRST-AID MEASURES

**First-aid Measures**

**Inhalation**

Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen and get immediate medical attention.

**Skin Contact**

Wash with soap and water. If irritation develops or persists, seek medical attention. Contaminated clothing should be washed before re-use.

**Eye Contact**

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 20 minutes. Get medical attention.

**Ingestion**

If conscious, rinse mouth with ½ - 1 glass of water to drink, DO NOT induce vomiting. Immediately contact local poison control centre. Never give anything by mouth to an unconscious or convulsing victim. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Administer more water or milk.

**Immediate Medical Attention and Special Treatment**

**Special Instructions**

Immediate consultation with the local Poison Control Centre should be initiated if ingested. Severe and sometimes delayed (up to 72 hours) local and systemic reactions can occur.

### SECTION 5. FIRE-FIGHTING MEASURES

## Extinguishing Media

### Suitable Extinguishing Media

Dry chemical, carbon dioxide, foam, water fog.

### Specific Hazards Arising from the Product

Flash Point is estimated at 11°C. UEL is estimated at 36.5%. LEL is estimated at 1.1%. Autoignition is estimated at 399°C.

Sensitive to static discharge when vapours are present between the lower and upper explosive limits. Not expected to be sensitive to mechanical discharge.

Thermal decomposition products are toxic and may include ammonia, aldehydes, ketones, formaldehyde, oxides of carbon, sulphur, nitrogen and irritating gasses.

### Special Protective Equipment and Precautions for Fire-fighters

Move containers from fire area or cool with water spray. Vapours may form an explosive mixture in air. Vapours can travel to a source of ignition and flash back.

Firefighters must wear a full-body encapsulating chemical protective suit with positive-pressure self-contained breathing apparatus (SCBA).

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

### Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

### Methods and Materials for Containment and Cleaning Up

Use full protective equipment and breathing apparatus. Eliminate all sources of ignition. Evacuate all non-essential personnel. Soak up spill with absorbent material and put in appropriate containers for disposal. Do not allow to enter waterways.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid inhalation of vapours and mists. Avoid any contact with eyes, skin and clothing. Wear suitable protection when handling. Use proper grounding techniques when transferring to prevent static charge build-up.

Handle in accordance with good industrial hygiene and safety practice. It is good practice to: avoid breathing product, avoid eye and skin contact and wash hands thoroughly after handling.

### Conditions for Safe Storage

Store in a cool, dry, well-ventilated place. Keep container tightly closed and away from incompatible materials.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

(xylene) AND (ethylbenzene)

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. 100 ppm

OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. TWA = Time-Weighted Average. 100 ppm

(methanol)

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. 200 ppm sTEL = Short-term Exposure Limit. 250 ppm (skin)

(isopropyl alcohol)

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. 400 ppm

OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. TWA = Time-Weighted Average. 400 ppm

(sulfuric acid)

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. 3 mg/m<sup>3</sup>

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(ethanolamine)

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. 6 ppm

OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. TWA = Time-Weighted Average. 6 ppm

(naphthalene)

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. 15 ppm

OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. TWA = Time-Weighted Average. 15 ppm

(benzene)

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. 0.5 ppm.

#### **Appropriate Engineering Controls**

Provide mechanical ventilation to minimize vapour concentrations and to reduce potential for exposure. Ensure all equipment is explosion-proof.

#### **Individual Protection Measures**

##### **Eye/Face Protection**

Wear chemical safety goggles.

##### **Skin Protection**

Wear chemical protective clothing e.g. gloves, aprons and boots.

##### **Respiratory Protection**

Use an approved organic vapour-type respirator.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Basic Physical and Chemical Properties**

<b>Appearance</b>	Dark red liquid.
<b>Odour</b>	Aromatic
<b>Melting Point/Freezing Point</b>	-35 °C (melting); Not available (freezing)
<b>Initial Boiling Point/Range</b>	> 65 °C
<b>Flash Point</b>	11 °C (estimated)
<b>Evaporation Rate</b>	Not available
<b>Upper/Lower Flammability or Explosive Limit</b>	36.5% (estimated) (upper); 1.1% (estimated) (lower)
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (air = 1)</b>	Not available
<b>Relative Density (water = 1)</b>	Not available
<b>Auto-ignition Temperature</b>	399 °C (estimated)
<b>Other Information</b>	
<b>Physical State</b>	Liquid
<b>Molecular Formula</b>	Not available
<b>Molecular Weight</b>	Not available
<b>Saturated Vapour Concentration</b>	Not available
<b>Other Physical Property 1</b>	Volatility (% by volume): 85-95%

## **SECTION 10. STABILITY AND REACTIVITY**

### **Chemical Stability**

Normally stable.

### **Possibility of Hazardous Reactions**

Hazardous polymerization will not occur.

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### Conditions to Avoid

High temperatures, open flames and all sources of ignition.

### Incompatible Materials

Oxidizers, mineral acids, halogens, activated carbon, aluminum and its alloys, reducing agents and strong bases.

### Hazardous Decomposition Products

Thermal decomposition products are toxic and may include ammonia, aldehydes, ketones, formaldehyde, oxides of carbon, nitrogen, sulfur and other irritating gasses.

## SECTION 11. TOXICOLOGICAL INFORMATION

Effects of acute exposure not determined.

### Likely Routes of Exposure

Inhalation; skin contact; skin absorption; eye contact; ingestion.

### Acute Toxicity

LC50 Inhalation Rat:

(xylene) = 5,000-6,740 ppm / 4-hr

(ethylbenzene) = +6,700 ppm

(methanol) = 64,000 ppm / 4-hr

(isopropyl alcohol) = 12,000 ppm / 4-hr

(naphthalene) = +170 mg/kg

LD50 Oral Rat:

(xylene) = 4,000 mg/kg

(ethylbenzene) = 4,300 mg/kg

(methanol) = 5,628 mg/kg

(isopropyl alcohol) = 4,710-5,840 mg/kg

(sulfuric acid) = 2,140 mg/kg

(ethanolamine) = 2,100 mg/kg

(distillates residue, low-boiling) = 2,551 mg/kg

(naphthalene) = 490-1,780 mg/kg

LD50 Dermal Rabbit:

(xylene) = +2,000 mg/kg

(ethylbenzene) = +3.9 mL/kg

(methanol) = 15,800 mg/kg

(isopropyl alcohol) = 6,291-12,900 mg/kg

(sulfuric acid) = 255 mg/m<sup>3</sup>

(ethanolamine) = 1,018 mg/kg

(naphthalene) = +20,000 mg/kg

### Skin Corrosion/Irritation

CORROSIVE! Brief contact may cause irritation. Prolonged contact may cause burns. Corrosive effects may be delayed. May be absorbed through the skin causing effects similar to ingestion.

### Serious Eye Damage/Irritation

Vapours may be irritating to the eyes. Splashes to the eyes may cause severe irritation, redness and pain. Chemical burns can occur if not promptly removed.

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

CORROSIVE! May cause severe irritation to the nose, throat and respiratory tract. May cause effects similar to ingestion, including vision disturbances. Xylene may sensitize heart muscle.

#### Ingestion

Will cause severe burning and pain in the mouth, throat and abdomen. Vomiting, diarrhea and perforation of the esophagus and stomach lining may occur. May cause central nervous system depression, hearing loss, cardiac arrhythmia, liver damage, kidney damage, coma and possibly death. Methanol may cause blurring of vision to complete blindness. Symptoms usually develop 12 to 18 hours after exposure.

### STOT (Specific Target Organ Toxicity) - Repeated Exposure

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Effects of chronic exposure not determined.

### **Carcinogenicity**

Ethylbenzene is classified as a possible human carcinogen.

### **Reproductive Toxicity**

#### **Development of Offspring**

Exposure to xylene may harm a developing fetus.

### **Germ Cell Mutagenicity**

Not a known mutagen.

### **Interactive Effects**

Alcohol may react with chlorinated solvents.

## **SECTION 12. ECOLOGICAL INFORMATION**

No ecotoxicity or environmental fate data available. It is good practice to prevent releases into the environment.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

### **Disposal Methods**

Dispose of in accordance with federal, provincial and local government regulations. Containers should NOT be re-used. Containers should be disposed of in accordance with government guidelines.

## **SECTION 14. TRANSPORT INFORMATION**

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	2924	FLAMMABLE LIQUID, CORROSIVE N.O.S. (contains methanol)	3 (8)	III

**Special Precautions** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## **SECTION 15. REGULATORY INFORMATION**

### **Safety, Health and Environmental Regulations**

#### **Canada**

#### **WHMIS 1988 Classification**



Class B2



Class D1B



Class D2A; D2B



Class E

B2 - Flammable Liquid; D1B - Toxic; D2A - Very Toxic; D2B - Toxic (Skin irritant; Eye irritant); E - Corrosive

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

## **SECTION 16. OTHER INFORMATION**

**SDS Prepared By** Bri-Chem Supply Ltd

**Phone No.** (403) 252-5904

**Date of Preparation** April 14, 2016

**Disclaimer** This Health and Safety information is correct to the best of our knowledge and belief at the

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date of its publication, but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as guidance for safe handling, storage, and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet.