

# SAFETY DATA SHEET

To comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

## HYDROSCOUT HIGH RANGE DILUTION VIALS

### SECTION 1 – COMPANY IDENTIFICATION

**Manufacturer:** Dexsil Corporation  
One Hamden Park Drive  
Hamden, CT 06517

**Emergency Telephone Number:**  
USA (800) 424-9300 (CHEMTREC)  
INT'L (703) 741-5970

**Telephone Number:** (203) 288-3509

**Email:** [info@dexsil.com](mailto:info@dexsil.com)

**Product Description:** The HYDROSCOUT product line is an On-Site test kit for quantifying water in used oil and other hydrocarbon matrices. The High-Range dilution vials are designed to be used in conjunction with the standard HYDROSCOUT reagents

### SECTION 2 – HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

<b>White capped vial(dilution kit): diglyme</b>			
Flammable Liquid (3);H226	Flammable liquid and vapor.	Reproductive toxicity (1B);H360	May damage fertility or the unborn child. Reproductive toxicity

#### 2.2. Label elements

**White Capped Vial (dilution kit): Diglyme**



**Danger**

H226 flammable liquid and vapor.

H360 May damage fertility or the unborn child.

**[Prevention]:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P241 Use explosion-proof electrical / ventilating / light / equipment.

P280 Wear protective gloves / eye protection / face protection.

**[Response]:**

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P308+313 IF exposed or concerned: Get medical advice / attention.

P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

**[Storage]:**

P403+233 Store in a well ventilated place. Keep container tightly closed.

P405 Store locked up.

**[Disposal]:**

P501 Dispose of contents / container in accordance with local / national regulations.

For additional information on toxicity, please refer to Section 11.

### **SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS**

The HYDROSCOUT Dilution Kit Reagents consist of a white screw-cap vial for measuring high water levels (>20%) in oils.

Component	Contents	CAS#	EC#	% liquid
White Capped Vial (dilution kit)	Diglyme , Bis(2-methoxyethyl)ether	111-96-6	203-924-4	100.00%

### **SECTION 4 — FIRST AID MEASURES**

#### **First Aid**

In case of contact with reagents, rinse well with water. If swallowed, do NOT induce vomiting.

#### **Eye Contact**

For all kit components, flush eyes with large amounts of water for 15 minutes. Seek medical attention.

#### **Skin contact**

Flush with large amounts of water for 15 minutes. Use soap and water to wash away organic components.

#### **Inhalation**

In case of inhalation, remove to fresh air.

**Ingestion:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

### **SECTION 5 — FIRE AND EXPLOSION HAZARD**

#### **Flash Point**

Diglyme 135°F

#### **Flammable Limit**

Diglyme Upper - Unknown Lower - Unknown

**Extinguishing Media** Water spray, dry chemical, alcohol resistant foam, powdered limestone, CO<sub>2</sub>

**Special Fire Fighting Procedures** Wear SCBA and protective clothing.

### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

#### **Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

#### **Spills and Leaks**

Shut off all ignition sources, no flares, smoking or flames in area. Soak up with noncombustible absorbent material and place into container for disposal later. Flush area with water. Do not let product enter drains.

### **SECTION 7 — HANDLING AND STORAGE**

#### **Protective equipment**

Wear appropriate safety equipment when performing the test on site. Avoid inhalation of vapor or mist.

#### **Storage**

Store test kits in a cool, dry place. Check expiration date prior to performing test.

### **SECTION 8 — EXPOSURE CONTROLS/ PERSONAL PROTECTIVE EQUIPMENT**

#### **Control parameters**

**Components with workplace control parameters**

Component	CAS-No.	Value	Control parameters	Basis
Bis(2-methoxyethyl)ether	111-96-6	PEL	1 ppm 5.5 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)
	Remarks	Skin STEL	5 ppm 27 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

**Derived No Effect Level (DNEL)**

Application Area	Exposure Routes	Health effect	Value
Workers	Inhalation	Long-term systemic effects	26.8 mg/m3
Workers	Skin contact	Long-term systemic effects	2.08mg/kg BW/d
Consumers	Inhalation	Long-term systemic effects	6.67 mg/m3
Consumers	Skin contact	Long-term systemic effects	1.04mg/kg BW/d
Consumers	Ingestion	Long-term systemic effects	1.04mg/kg BW/d

**Predicted No Effect Concentration (PNEC)**

Compartment	Value
Water	9.43 mg/l
Soil	1.72 mg/kg
Marine water	0.64 mg/l
Fresh water	6.4 mg/l
Marine sediment	2.74 mg/kg
Fresh water sediment	27.4 mg/kg
Onsite sewage treatment plant	50 mg/l

**Personal Protective Equipment(PPE)**

<b>Respiratory protection</b>	None required where adequate ventilation conditions exists. If airborne concentration is high, use a chemical cartridge respirator.
<b>Ventilation</b>	Perform test only in a well-ventilated area.
<b>Protective gloves</b>	Always wear rubber gloves when performing the HYDROSCOUT test.
<b>Eye protection</b>	Wear safety glasses.
<b>General Hygiene Measures</b>	Avoid contact with skin, eyes and clothing. Wash after running tests.

**SECTION 9 – PHYSICAL/CHEMICAL CHARACTERISTICS**

<u>Property</u>	<u>Diglyme</u>
<b>Boiling Pt. °C</b>	163
<b>Vapor Pressure</b>	0.6 hPa (0.5 mmHg) at 20 °C (68 °F) 0.99 hPa (0.74 mmHg) at 25 °C (77 °F) 7.7 hPa (5.8 mmHg) at 50 °C (122 °F)
<b>Solubility in Water</b>	100%
<b>Specific Gravity</b>	0.95
<b>Percent Volatile</b>	100
<b>Evaporation Rate Butyl Acetate =1</b>	0.36
<b>Appearance</b>	colorless
<b>Odor</b>	ether-like

N/A = not available

**SECTION 10 – REACTIVITY DATA**

**Chemical Stability** All components are stable under recommended storage conditions.

**Conditions to Avoid** Strong oxidizing agents along with exposure to heat, sparks, flame and other sources of ignition.

**Hazardous Decomposition Productions** Diglyme may form peroxides on exposure to air.

**Hazardous Polymerization** Will not occur.

## **SECTION 11 — TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

LD50 Oral - Rat - 5,400 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Ataxia. Respiratory disorder

Inhalation: No data available

Dermal: No data available

### **Skin corrosion/irritation**

No data available

### **Serious eye damage/eye irritation**

No data available

### **Respiratory or skin sensitisation**

No data available

### **Germ cell mutagenicity**

No data available

### **Carcinogenicity**

#### **Reproductive toxicity**

Laboratory experiments have shown teratogenic effects.

Presumed human reproductive toxicant

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

### **Specific target organ toxicity - single exposure**

No data available

### **Specific target organ toxicity - repeated exposure**

No data available Diglyme may cause teratogenic or mutagenic effects and cause harm to the unborn child.

### **Aspiration hazard**

No data available

### **Additional Information**

RTECS: KN3339000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

## **SECTION 12 — ECOLOGICAL INFORMATION**

### **Toxicity**

No data available

### **Persistence and degradability**

No data available

### **Bioaccumulative potential**

No data available

### **Mobility in soil**

No data available

### **Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### **Other adverse effects**

No data available

## **SECTION 13 — DISPOSAL CONSIDERATIONS**

Dispose of in accordance with all applicable federal, state and local environmental regulations

## **SECTION 14 — TRANSPORTATION INFORMATION**

<b>DOT</b>		
<b>Proper Shipping Name:</b>	Ethers, n.o.s.	
<b>UN Number:</b>	3271	
<b>Hazard Class:</b>	3	
<b>Packing Group:</b>	III	
<b>IMDG</b>		
<b>Proper Shipping Name:</b>	ETHERS, N.O.S. (Bis(2-methoxyethyl)ether)	
<b>UN Number:</b>	3271	
<b>Hazard Class:</b>	3	
<b>Packing Group:</b>	III	<b>EMS-No:</b> F-E, S-D
<b>IATA</b>		
<b>Proper Shipping Name:</b>	ETHERS, N.O.S. (Bis(2-methoxyethyl)ether)	
<b>UN Number:</b>	3271	
<b>Hazard Class:</b>	3	
<b>Packing Group:</b>	III	

## **SECTION 15 — REGULATORY INFORMATION**

### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### **SARA 313 Components**

The following components are subject to reporting levels established by SARA Title III, Section 313:

Bis(2-methoxyethyl)ether      CAS-No.      111-96-6

### **SARA 311/312 Hazards**

Fire Hazard, Chronic Health Hazard

### **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

### **Pennsylvania Right To Know Components**

Bis(2-methoxyethyl)ether      CAS-No.      111-96-6

### **New Jersey Right To Know Components**

Bis(2-methoxyethyl)ether      CAS-No.      111-96-6

**TSCA Inventory Items:**      Diglyme

**EINECS:** Components of this product are on the European Inventory of Existing Commercial Chemical Substances.

## **SECTION 16 — OTHER INFORMATION**

The information in this Material Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and the Canadian WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the precautions and danger of these chemicals for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes.

Exposure to this product may have serious adverse health effects. These chemicals may interact with other substances. Since the potential uses are so varied, Dexsil cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. Dexsil warrants that the chemicals meet the specifications set forth on the label.

DEXSIL DISCLAIMS ANY OTHER WARRANTIES; EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, IT'S MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR PURPOSE.

The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Dexsil will periodically revise this Material Safety Data Sheet. CHEMTREC emergency telephone number is to be used ONLY in the event of CHEMICAL EMERGENCIES involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to the Customer Service Dept. at 1-203-288-3509.

*For additional information, contact Dexsil.*

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