

# Material Safety Data Sheet

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

## PETROFLAG TEST KIT

### SECTION 1 --- MANUFACTURER

**Manufacturer's Name:**

Dexsil Corporation

**Emergency Telephone Number:**

USA (800) 424-9300 (CHEMTREC)  
INT'L (202) 483-7616

**Address:**

One Hamden Park Drive  
Hamden, CT 06517

**Telephone Number:**

(203) 288-3509

**Date Prepared:** 12-01-07

**Date Reviewed:** 12-01-07

### SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

The PetroFLAG Test Reagent Kit consists of two snap ampules (extraction solvent and calibration solvent) and a screw top vial. Screw top vial contents are non-hazardous. The PetroFLAG High Range Reagents consist of one break-top ampule.

<u>Component</u>	<u>Contents</u>	<u>CAS#</u>	<u>Concentration in kit</u>
Ampule 1 "Extraction Solvent"	Methanol Sol'n	67-56-1	50%*
Ampule 2 "Calibration Standard"	Methanol Sol'n	67-56-1	50%*
{*Bracketed component reported as a % of total liquid in kit}			
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Ampule 1 " High Range"	Diglyme	111-96-6	100%*

### SECTION 3 — HAZARDS IDENTIFICATION

Harmful if inhaled or swallowed.

Can cause eye irritation.

Exposure may cause skin irritation and harmful if absorbed through the skin.

Ingestion will cause gastrointestinal disturbances.

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

### SECTION 4 — FIRST AID MEASURES

**First Aid**

In case of contact with reagents, rinse well with water. If swallowed, induce vomiting immediately by giving two glasses of water and sticking fingers down throat.

**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. Use soap and water to wash away organic components.

**Inhalation**

In case of inhalation, remove to fresh air. Seek medical attention.

## SECTION 5 --- FIRE AND EXPLOSION HAZARD

<b>Flash Point</b>	Ampule 1	50°F	
	Ampule 2	50°F	
	High Range Ampule	135°F	
<b>Flammable Limit</b>	Ampule 1	Unknown	
	Ampule 2	Unknown	
	High Range Ampule	Upper: 17.4	Lower: 1.5
<b>Extinguishing Media</b>	Ampule 1 & Ampule 2	Dry chemical, CO <sub>2</sub>	
	High Range Ampule	Dry powder, water fog, CO <sub>2</sub> .	
<b>Special Fire Fighting Procedures</b>	Ampule 1 & 2	None	
	High Range Ampule	Wear SCBA and protective clothing.	

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

<b>Personal Protection</b>	Chemical safety glasses and rubber gloves
<b>Spills and Leaks</b>	<i>Ampule 1 - Methanol Solution</i> Solvent absorbent recommended for spills. Flush area with water.
	<i>Ampule 2 - Methanol Solution</i> Solvent absorbent recommended for spills. Flush area with water.
	<i>High Range Ampule - Diglyme</i> Solvent absorbent recommended for spills. Place material into a container for disposal later.

## SECTION 7 — HANDLING AND STORAGE

<b>Protective equipment</b>	Wear appropriate safety equipment when performing the test on site.
<b>Storage</b>	Store test kits in a cool, dry place. Check expiration date prior to performing test.

## SECTION 8 — EXPOSURE CONTROLS/ PERSONAL PROTECTIVE EQUIPMENT

<b>Engineering Controls</b>	None required
<b>Personal Protective Equipment(PPE)</b>	
<b>Respiratory protection</b>	None required where adequate ventilation conditions exist. 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 PETROFLAG test.
<b>Eye protection</b>	Wear safety glasses.
<b>General Hygiene Measures</b>	Wash after running tests

## SECTION 9 --- PHYSICAL/CHEMICAL CHARACTERISTICS

<u>Property</u>	<u>Ampule 1</u>	<u>Ampule 2</u>	<u>High Range Ampule</u>
Boiling Pt.°C	64.5	64.5	162
Vapor Pressure mm Hg @ 21°C	97	97	1.7
Solubility in Water	miscible	miscible	100%
Specific Gravity	0.79	0.79	0.95
Percent Volatile	99.9	99.9	100
Evaporation Rate Butyl Acetate =1	5.9	5.9	0.36
Appearance	clear, colorless	clear, colorless	colorless
Odor	pleasant	pleasant	ether-like

## SECTION 10 — REACTIVITY DATA

Stability	All components are stable.
Incompatible With	Ampule 1 and 2: None High Range Ampule: Avoid strong oxidizers.
Hazardous Decomposition Productions	Ampule 1 and 2: Solutions are stable High Range Ampule: None Expected.
Hazardous Polymerization	Will not occur.
Conditions to Avoid	Ampule 1 and 2: Excessive Heat High Range Ampule: May form peroxides on exposure to air.

## SECTION 11 — TOXICOLOGICAL INFORMATION

### **Carcinogenicity**

NTP: No IARC: No Z List: No OSHA Reg: No

Diglyme may cause teratogenic or mutagenic effects and cause harm to the unborn child.

### **Toxicity Data**

<u>Component</u>	<u>Contents</u>	<u>TLV/(PEL)</u>
<i>Ampule 1</i> "Extraction Solvent"	Methanol Sol'n	200 ppm/(200 ppm)
<i>Ampule 2</i> "Calibration Standard"	Methanol Sol'n	200 ppm/(200 ppm)
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<i>Ampule 1</i> "High Range"	Diglyme	5 ppm

## **SECTION 12 — ECOLOGICAL INFORMATION**

No data available

## **SECTION 13 — DISPOSAL CONSIDERATIONS**

Used reagents contain oil and solvent. Dispose of as an organic waste in accordance with all applicable federal, state and local environmental regulations.

## **SECTION 14 — TRANSPORTATION INFORMATION**

### **DOT**

**Proper Shipping Name:** None  
**Non-Hazardous for Transport:** As originally packaged by Dexsil Corporation Packaging conforms to conditions and limitations specified in 49 CFR 173.4.

### **IATA**

**Proper Shipping Name:** Dangerous Goods in Excepted Quantities  
**IATA UN Number:** 1230, 1987  
**Hazard Class:** 3 (6.1)  
**Packing Group:** II

## **SECTION 15 — REGULATORY INFORMATION**

### **United States Regulatory Information**

**SARA Listed:** Ethanol/methanol and diglyme are identified on SARA Sec. 313.

**TSCA Inventory Items:** Ethanol/methanol and diglyme.

**CERCLA Listed:** Ethanol/ methanol

## **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, ITS 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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