

Material Safety Data Sheet

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

PETROFLAG TEST KIT

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) 527-3887

Date Prepared: 12-11-10

Date Reviewed: 12-11-10

Telephone Number:

(203) 288-3509

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

The PetroFLAG Test Reagent Kit consists of two break-top 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	62%
Ampule 2 "Calibration Standard"	Methanol Sol'n	67-56-1	6%
Screw-top Vial	5% NaCl Sol'n	7647-14-5	32%
Total Liquid			100%
Ampule 1 "High Range"	Diglyme	111-96-6	100%

[% Concentration is the amount of liquid for each listed component in a 10 test kit box]

SECTION 3 — HAZARDS IDENTIFICATION

Inhalation Harmful if inhaled.
Skin Exposure may cause skin irritation and harmful if absorbed through the skin.
Eyes May cause eye irritation.
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

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

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Protection Chemical safety glasses and rubber gloves

Spills and Leaks *Ampule 1 & Ampule 2 - Methanol Solution*
Solvent absorbent recommended for spills. Flush area with water.

High Range Ampule - Diglyme
Solvent absorbent recommended for spills. Place material into a disposal container.

SECTION 7 — HANDLING AND STORAGE

Protective equipment Wear appropriate safety equipment when performing the test on site.

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

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

Engineering Controls None required

Personal Protective Equipment (PPE)

Respiratory protection None required where adequate ventilation conditions exist. If airborne concentration is high, use a chemical cartridge respirator.

Ventilation Perform test only in a well-ventilated area.

Protective gloves Always wear rubber gloves when performing the PETROFLAG test.

Eye protection Wear safety glasses.

General Hygiene Measures Avoid contact with skin, eyes and clothing. Wash after running tests.

SECTION 9 – PHYSICAL/CHEMICAL CHARACTERISTICS

<u>Property</u>	<u>Ampule 1</u>	<u>Ampule 2</u>	<u>Screw-top Vial</u>	<u>High Range Ampule</u>
Boiling Pt. °C	64.5	64.5	N/A	162
Vapor Pressure mm Hg @ 21°C	97	97	N/A	1.7
Solubility in Water	miscible	Miscible	complete	100%
Specific Gravity	0.79	0.79	1.01	0.95
Percent Volatile	99.9	99.9	N/A	100
Evaporation Rate Butyl Acetate =1	5.9	5.9	N/A	0.36
Appearance	clear	clear	clear	clear
Odor	pleasant	pleasant	none	ether-like

N/A = not available

SECTION 10 – REACTIVITY DATA

Chemical Stability All components are stable under recommended storage conditions.

Conditions to Avoid *Ampule 1 and Ampule 2:* Excessive Heat
High Range Ampule: Avoid strong oxidizers. May form peroxides on exposure to air.

Hazardous Decomposition Productions *Ampule 1 and Ampule 2:* Solutions are stable
High Range Ampule: None Expected.

Hazardous Polymerization Will not occur.

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)
Screw-top Vial	5% NaCl Sol'n	N/A
<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, no labels are required for air or ground transportation.

IATA
Proper Shipping Name: Methanol Solution
IATA UN Number: 1230, 1170
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, 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.

Rev. 7