

Safety Data Sheet

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

TITRACLORE-P USED OIL QUANTIFICATION 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) 741-5970

Telephone Number:
(203) 288-3509

Product Description: The TITRACLORE-P Used Oil Quantification Kit consists of ten test tubes each containing two ampules, ten test tubes each an aqueous solution, and one amber bottle of silver nitrate titrant.

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>Contents</u>	<u>CAS#</u>	<u>% of liquid contained in kit</u>	<u>Bracketted component only</u>
Ampule 1 (gray color, yellow dot)	[Sodium] dispersed in oil	7440-23-5	1.15%	0.23%*
Ampule 2 (large, colorless)	[Naphthalene] in Ethyl Diglyme Sol'n	91-20-3 112-36-7	4.58%	0.41%*
Amber Bottle	[Silver Nitrate] in water	7761-88-8	67.09%	0.11%*
Aqueous Solution	[Sulfuric Acid] in water <0.05% Cadmium	7664-93-9 7440-43-9	27.18%	0.79%*
Total Liquid			100.00%	

[*Amounts are reported as a % of the total liquid in the kit]

SECTION 3 — HAZARDS IDENTIFICATION

Inhalation Harmful if inhaled. May cause respiratory tract irritation
Skin May be harmful if absorbed through skin. May cause skin burns.
Eyes May cause eye irritation
Ingestion Will cause burns of the gastrointestinal tract if swallowed.

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.

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.

SECTION 5 — FIRE AND EXPLOSION HAZARD

Flash Point	Ampule 1	138°F
	Ampule 2	162°F
	Amber Bottle	N/A

Flammable Limit: Unknown

Extinguishing Media DO NOT USE WATER ON A SODIUM FIRE. Dry chemical, foam, CO₂

Special Fire Fighting Procedures Do not use water. Wear SCBA. Avoid breathing sodium oxide fumes that will form on combustion.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Protection Chemical safety glasses and rubber gloves

Spills and Leaks *Ampule 1 - Sodium Ampule*
Cover with dry soda ash or salt. Store in a well-ventilated area away from moisture.

Ampule 2 - Naphthalene/Ethyl Diglyme Ampule
Absorb completely and dispose of as organic waste.

Amber Bottle – Silver Nitrate Solution
Absorb completely and flush area with water.

Aqueous Solution
Absorb completely and flush area with water.

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 during normal use.

Ventilation Perform test only in a well-ventilated area.

Hand Protection Always wear rubber gloves when performing the TITRACLOR-P test.

Eye protection Wear safety glasses.

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

SECTION 9 — PHYSICAL/CHEMICAL CHARACTERISTICS

Property	<u>Ampule 1</u>	<u>Ampule 2</u>	<u>Amber Bottle</u>	<u>Aq. Sol'n</u>
Boiling Pt. °C	N/A	185	100	>100
Vapor Pressure mm Hg @ 21°C	N/A	0.5	18	16
Solubility in Water	reacts	91%	complete	complete
Specific Gravity	0.86	0.91	1.04	1.09
Percent Volatile	40	100	none	none
Evaporation Rate Butyl Acetate=1	N/A	0.04	N/A	N/A
Appearance	gray	colorless	colorless	colorless
Odor	none	ether-like	none	none

N/A = not available

SECTION 10 — REACTIVITY DATA

Chemical Stability All components are stable under recommended storage conditions.

Conditions to Avoid Do not expose broken sodium ampule to moisture. Keep from strong oxidizers.

Hazardous Decomposition Products Sodium will form hydrogen and sodium oxide when moisture is present. Ethyl diglyme may form peroxides on exposure to air. Other solutions are stable.

Hazardous Polymerization Will not occur.

SECTION 11 — TOXICOLOGICAL INFORMATION

Carcinogenicity

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

This product contains Cadmium, which is listed as a NTP anticipated human carcinogen and an IARC probable human carcinogen (Groups 2A and 2B). Ethyl 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>
Ampule 1(gray color, yellow-dot)	[Sodium] dispersed in oil	[2 mg/m ³ / (2 mg/m ³)]
Ampule 2 (large, colorless)	[Naphthalene] in Ethyl Diglyme Sol'n	[50 mg/m ³ / (50 mg/m ³)] 33 mg/m ³ / (33 mg/m ³)
Amber Bottle	[Silver Nitrate] in water	[0.1 mg/m ³ / (0.1 mg/m ³)]
Aqueous Sol'n	[Sulfuric Acid] in water <0.05% Cadmium	[1 mg/m ³ / (1 mg/m ³)] 0.05 mg/m ³ / (0.2 mg/m ³)

SECTION 12 — ECOLOGICAL INFORMATION

No data available

SECTION 13 — DISPOSAL CONSIDERATIONS

Sampling Syringe

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

Test Tube 1

Contains reacted oil sample and organic liquid. Dispose of as an organic waste in accordance with all applicable federal, state and local environmental regulations.

Titrated Solution

Dispose of 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, under Competent Authority Approval CA-9610010, packages are approved for transportation by motor vehicle, rail freight, cargo vessel, cargo aircraft only and passenger aircraft.

Domestic Highway & Rail Transport Only:

Packaging conforms to conditions and limitations specified in 49 CFR 173.4.

IATA

Proper Shipping Name:	Alkali Metal Dispersion, Flammable
IATA UN Number:	3482
Hazard Class:	4.3
Packing Group:	I

SECTION 15 — REGULATORY INFORMATION

United States Regulatory Information

SARA Listed: Cadmium and Naphthalene, Organo-sulfur cmpd. and ethanol/methanol are identified on SARA Sec. 313.

TSCA Inventory Items: Cadmium, Naphthalene, Organo-sulfur cmpd. and ethanol/methanol.

CERCLA Listed: Cadmium, Naphthalene, Organo-sulfur cmpd. and 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.

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