

Material Safety Data Sheet

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

CLOR-N-OIL 20, 50 or 500 PCB SCREENING 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: 3-24-11

Telephone Number:

Date Reviewed: 3-24-11

(203) 288-3509

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

The CLOR-N-OIL PCB Screening Kit consists of one test tube containing two ampules, one test tube containing two ampules plus an aqueous solution, and another separate ampule. All versions of Clor-N-Oil (20, 50 and 500) contain less than or equivalent amounts of the compounds listed below.

<u>Component</u>	<u>Contents</u>	<u>CAS#</u>	<u>% liquid contained in kit</u>	<u>Bracketted component only</u>
<i>Ampule 1(gray color)</i>	[Sodium] dispersed in oil	7440-23-5	1.76%	0.35%*
<i>Ampule 2(blue-dot)</i>	[Naphthalene] in Diglyme Sol'n	91-20-3 111-96-6	1.94%	0.49%*
<i>Ampule 3(colored-dot)</i>	[Mercuric] Nitrate in water	10045-94-0	7.74%	(black-dot) CNO20 <0.01%* (green-dot) CNO50 <0.01%* (red-dot) CNO500 0.03%*
<i>Ampule 4(red-green color)</i>	Ethanol	00064-17-5	4.03%	—
<i>Ampule 5(colorless)</i>	Organo-Sulfur Compd.	128-04-1	6.15%	—
Aqueous Solution	[Sulfuric Acid] in water	7664-93-9	78.38%	1.57%*
Total Liquid			100.00%	

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

SECTION 3 — HAZARDS IDENTIFICATION

Inhalation Harmful if inhaled. May cause respiration tract irritation
Skin May be harmful if absorbed through skin. May cause skin burns.
Eyes Can 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	135°F
	Ampule 3	N/A
	Ampule 4	48°F
	Ampule 5	N/A

Flammable Limit Unknown

Extinguishing Media DO NOT USE WATER ON A SODIUM FIRE. Use 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/Diglyme Ampule
Absorb completely and dispose of as organic waste.

Ampule 3 - Mercuric Nitrate Ampule
Absorb completely and flush area with water.

Ampule 4 - Ethanol Ampule
Solvent absorbent recommended for spills. Flush area with water.

Ampule 5 - Disposal Ampule
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 CLOR-N-Oil test. Viton gloves are recommended for use with PCB's

Eye protection

Wear safety glasses.

General Hygiene Measures

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

SECTION 9 – PHYSICAL/CHEMICAL CHARACTERISTICS

Property	<u>Ampule 1</u>	<u>Ampule 2</u>	<u>Ampule 3</u>	<u>Ampule 4</u>	<u>Ampule 5</u>	<u>Aq. Sol'n</u>
Boiling Pt. °C	N/A	185	100	78	100	>100
Vapor Pressure mm Hg@ 21°C	N/A	0.5	18	44	18	16
Solubility in Water	reacts	75%	complete	miscible	miscible	complete
Specific Gravity	0.86	0.95	1.02	0.79	1.17	1.09
Percent Volatile	40	100	none	99	none	none
Evaporation Rate Butyl Acetate=1	N/A	0.36	N/A	2.7	N/A	N/A
Appearance	gray	colorless	colorless	red-green	colorless	colorless
Odor	none	ether-like	none	pleasant	sulfur-like	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. 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

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)	[Sodium] dispersed in oil	[2 mg/m ³ / (2 mg/m ³)]
Ampule 2 (blue-dot)	[Naphthalene] in Diglyme Sol'n	[50 mg/m ³ / (50 mg/m ³)] 5 ppm
Ampule 3(colored-dot)	[Mercuric Nitrate] in water	[0.1 mg/m ³ / (0.1 mg/m ³)]
Ampule 4(red-green color)	Ethanol	1900 mg/m ³ / (1900 mg/m ³)
Ampule 5(colorless)	Organo-Sulfur Comp'd	1 mg/m ³ / (1 mg/m ³)
Aqueous Sol'n	[Sulfuric Acid] in water	[1 mg/m ³ / (1 mg/m ³)]

SECTION 12 – ECOLOGICAL INFORMATION

No data available

SECTION 13 — DISPOSAL CONSIDERATIONS

Sampling Pipette

Pipette may contain residual PCB's. Dispose of in accordance with all applicable federal, state and local environmental regulations.

Test Tube 1

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

Test Tube 2

Upon completion of test including the addition of ampule 5, contents will pass US EPA TCLP test. 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 (3)
Packing Group: I

SECTION 15 — REGULATORY INFORMATION

United States Regulatory Information

SARA Listed: Mercuric nitrate, naphthalene/diglyme component, Organo-sulfur cmpd. and ethanol/methanol are identified on SARA Sec. 313.

TSCA Inventory Items: Mercuric nitrate, naphthalene/diglyme component, Organo-sulfur cmpd. and ethanol/methanol.

CERCLA Listed: Mercuric nitrate, 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.