

Material Safety Data Sheet

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

CLOR-N-SOIL 50 PCB SCREENING KIT

Section I --- 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

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Section II --- Identification of Hazardous Ingredient

The CLOR-N-SOIL 50 PCB Screening Kit consists of one test tube containing two ampules, one test tube containing two ampules and an aqueous solution, a separate ampule, a vial of extraction solvent, and a plastic drying column.

<u>Component</u>	<u>Ingredients</u>	<u>TLV/(PEL)</u>	<u>CAS#</u>	<u>Component as % of Total Liquid</u>
<i>Ampule 1</i> (gray color, yellow-dot)	[Sodium]* dispersed in oil	2 mg/m ³ /(2 mg/m ³)	7440-23-5	1.45%/[0.29%]*
<i>Ampule 2</i> (blue-dot)	[Naphthalene]* in Diglyme Sol'n	50 mg/m ³ /(50 mg/m ³) 5 ppm	91-20-3 111-96-6	0.80%/[0.20%]
<i>Ampule 3</i> (brown-dot)	[Mercuric]* Nitrate in water	0.1 mg/m ³ /(0.1 mg/m ³)	10045-94-0	3.15%/[0.001%]*
<i>Ampule 4</i> (red-green)	Ethanol	1900 mg/m ³ /(1900 mg/m ³)	00064-17-5	1.65%
<i>Ampule 5</i> (colorless)	Organo-Sulfur Cmpd.	1 mg/m ³ /(1 mg/m ³)	Proprietary	2.10%
<i>Aqueous Sol'n</i>	[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)	7664-93-9 7440-43-9	34.06%/[1.02%]*
<i>Soil Extract</i>	[Butyl Diglyme]* & water	NF	112-73-2	45.42% /[37.00%]*
<i>Drying Column</i>	Florisil	NF	1343-90-4	11.35%

[*Bracketed component reported as % of total of above-listed material in kit]

Section III --- Physical Characteristics

<u>Property</u>	<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>	<u>Soil Ext.</u>	<u>Dry. Col.</u>
Boiling Pt. °C	NA	168	100	78	100	>100	256	NA
Vapor Pressure mm Hg @ 21°C	NA	1.7	18	44	18	16	<0.01	NA
Solubility in Water	reacts	75%	complete	miscible	miscible	complete	0.3%	none
Specific Gravity	0.86	0.95	1.02	0.79	1.17	1.09	0.881	1.2
Percent Volatile	none	100	99	none	none	100	100	0
Evaporation Rate Butyl Acetate =1	NA	0.36	NA	2.7	NA	NA	<0.01	0
Appearance	gray	colorless	colorless	red-green	colorless	colorless	colorless	white crys.
Odor	none	ether-like	none	pleasant	NA	none	ether-like	none

Section IV --- Fire and Explosion Hazard

Flash Point	Ampule 1	212°F
	Ampule 2	135°F
	Ampule 3	NA
	Ampule 4	48°F
	Ampule 5	NA
	Extract Solvent	243°F
	Drying Column	None

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 V --- Reactivity Data

Stability All components are stable.

Incompatible With Do not expose broken sodium ampule to moisture. Keep from strong oxidizers.

Hazardous Decomposition Productions 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.

Conditions to Avoid Moisture with sodium ampule.

Section VI --- Health Hazard Information

First Aid

In case of contact with reagents, rinse well with water. In case of inhalation, remove to fresh air.

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.

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).

Toxicological Information

Harmful if inhaled or swallowed. May cause skin burns. Ingestion will cause burns of the gastrointestinal tract. Mercuric nitrate, cadmium and ethanol (methanol component) are identified on lists in CERCLA, SARA Sec. 313 and on TSCA. Naphthalene is identified in the SARA Sec. 313 list.

Section VII --- Spill, Leak and Disposal Procedures

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.

Aqueous Solution

Absorb completely and flush area with water.

Soil Extraction Solvent

Absorb completely and dispose of as organic waste.

Disposal

Pipette

May contain residual PCBs, dispose of in accordance with all applicable federal, state and local environmental regulations.

Test Tube 1

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

Test Tube 2

Contents include reacted oil sample and organic liquid, and may contain residual PCBs. Dispose of as an organic waste in accordance with all applicable federal, state and local environmental regulations.

Test Tube 3

Upon completion of test including the addition of ampule 5, contents pass US EPA TCLP test. Dispose of in accordance with all applicable federal, state and local environmental regulations.

Section VIII --- Special Protection Information

Respiratory protection	None required during normal use.
Ventilation	Perform test only in a well-ventilated area.
Protective gloves	Always wear rubber gloves when performing the CLOR-N-SOIL 50 test. Viton gloves are recommended for use with PCBs.
Eye protection	Wear safety glasses.
Other protective equipment	Wear appropriate safety equipment when performing the test on site.

Section IX --- Special Precautions and Comments

Storage and Handling Information

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

DOT Class (As originally packaged by Dexsil Corporation.)

Approval CA-9610010, Packaging conforms to conditions and limitations specified in 49 CFR 173.4.

NA=Not available or not applicable

NF=Not found

NE=Not Established

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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