

# SAFETY DATA SHEET

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

## L2000 OIL/SOIL REFILL CHEMICALS

### 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

**Email:** [info@dexsil.com](mailto:info@dexsil.com)

**Product Description:** The L2000 product line is a field test kit for quantitative determining PCBs and chlorinated organics in dielectric fluid and soil samples.

### SECTION 2 – HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

<b>Rinse, Extract and Calibration Solution: Sulfuric acid solution</b>			
Corrosive 1;H290	May be corrosive to metals.	Eye Irritation (2A);H319	Causes serious eye irritation.
Skin Irritant 2;H315	Causes skin irritation.		

<b>Ampule 1 (gray color yellow dot): Alkali metal dispersion</b>			
Combustible Liquid;H227	Combustible Liquid.	Skin Corrosive 1B;H314	Causes severe skin burns and eye damage.
Water-reactive 1;H260	In contact with water releases flammable gases which may ignite spontaneously.	Eye Damage 1;H318	Causes serious eye damage.

<b>Ampule 2 (blue dot): Naphthalene / diglyme</b>			
Flammable Liquid 3;H226	Flammable liquid and vapor.	Reproductive toxicity 1B;H360FD	May damage fertility. May damage the unborn child.
Acute Toxicity 4;H302	Harmful if swallowed.	Aquatic Chronic 2;H410	Very toxic to aquatic life with long lasting effects.
Carcinogenicity 2;H351	Suspected of causing cancer.		

<b>Soil extract: Butyl diglyme</b>			
No applicable GHS categories.			

<b>Drying column: Florisil</b>			
No applicable GHS categories.			

#### 2.2. Label elements

##### Rinse, Extract and Calibration



Danger

H290 May be corrosive to metals.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H350 May cause cancer.

H360 May damage fertility or the unborn child

H412 Harmful to aquatic life with long lasting effects

**[Prevention]:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P234 Keep only in original container.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash skin thoroughly after handling

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

**[Response]:**

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P305+351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P337+313 If eye irritation persists: Get medical advice/attention.

P308+313 IF exposed or concerned: Get medical advice / attention.

P321 Specific treatment (see information on this label).

P333+313 If skin irritation or a rash occurs: Get medical advice / attention.

P362 Take off contaminated clothing and wash before reuse.

P390 Absorb spillage to prevent material damage.

**[Storage]:**

P406 Store in corrosive resistant container with a resistant inner liner.

**[Disposal]:**

P501 Dispose of contents / container in accordance with local / national regulations.

**Ampule 1 (grey, yellow dot)**



**Danger**

H227 Combustible liquid.

H260 In contact with water releases flammable gases which may ignite spontaneously.

H304 May be fatal if swallowed and enters airways

H313 May be harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

**[Prevention]:**

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P223 Keep away from any possible contact with water, because of violent reaction and possible flash fire.

P231+232 Handle under inert gas. Protect from moisture.

P260 Do not breath dust / fume / mist / spray.

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

**[Response]:**

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor / physician.

P305+351+338+310 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Immediately call a POISON CENTER or doctor / physician.

P335+334 Brush off loose particles from skin. Immerse in cool water / wrap in wet bandages.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P363 Wash contaminated clothing before reuse.

P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

**[Storage]:**

P402+404 Store in a dry place. Store in a closed container.

P403+235 Store in a well ventilated place. Keep cool.

P405 Store locked up.

**[Disposal]:**

P501 Dispose of contents / container in accordance with local / national regulations.

**Ampule 2 (blue dot)**



**Danger**

H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

H330 Fatal if inhaled.

H351 Suspected of causing cancer.

H360FD\* May damage fertility. May damage the unborn child.

H410 Very toxic to aquatic life with long lasting effects.

**[Prevention]:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P241 Use explosion-proof electrical / ventilating / light / equipment.

P260 Do not breathe mist / vapors / spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

P284 Wear respiratory protection.

**[Response]:**

P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P308+313 IF exposed or concerned: Get medical advice / attention.

P320 Specific treatment is urgent (see information on this label).

P330 Rinse mouth.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

P391 Collect spillage.

**[Storage]:**

P403+233 Store in a well ventilated place. Keep container tightly closed.

P405 Store locked up.

**[Disposal]:**

P501 Dispose of contents / container in accordance with local / national regulations.

**Soil Extract**

No applicable GHS categories

**Drying Column****Warning**

H315 Causes skin irritation.

H335 May cause respiratory irritation.

**[Prevention]:**

P261 Avoid breathing dust.

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

**[Response]:**

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P321 Specific treatment (see information on this label).

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P362 Take off contaminated clothing and wash before reuse.

**[Storage]:**

P403+233 Store in a well ventilated place. Keep container tightly closed.

**[Disposal]:**

P501 Dispose of contents / container in accordance with local / national regulations.

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

**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

Oil Refills for the L2000 Chloride Analyzer consist of four different solutions in polyethylene bottles and polyethylene test tubes containing two glass ampules, each containing different reagents. Soil Refills contain additional vials of extraction solvent and plastic drying columns.

Component	Contents	CAS#	EC#	% (by WT)
Rinse, Extract and Calibration	Sulfuric Acid	7664-93-9	231-639-5	0.5 - 3
	Nickel Nitrate	13478-00-7	236-068-5	<0.3
	in water	7732-18-5	231-791-2	>97
Ampule 1 (grey, yellow dot)	Sodium	7440-23-5	231-132-9	10-20
	dispersed in oil	64742-46-7	265-148-2	80-90
Ampule 2 (blue dot)	Naphthalene in	91-20-3	202-049-5	10-20
	Diglyme Solution	111-96-6	203-924-4	80-90
Soil Extract	Butyl Diglyme	112-73-2	204-001-9	80-90
	in water	7732-18-5	231-791-2	10-20
Drying Column	Florisil (magnesium silicate hydrate)	1343-90-4	215-681-1	>95

**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.

**Ingestion:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

**SECTION 5 – FIRE AND EXPLOSION HAZARD**

<b>Flash Point</b>	Rinse Solution	None
	Extract Solution	None
	Calibration Solution	None
	Ampule 1	143.6°F (62°C)
	Ampule 2	135°F (57.2°C)
	Soil Extract	243°F (117.2°C)
	Soil Drying Column	None

**Flammable Limit:** Unknown

**Extinguishing Media** DO NOT USE WATER ON A SODIUM FIRE. Dry chemical, foam, CO<sub>2</sub>

**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** *Rinse, Extract, Calibration & Filing Solutions*  
Mop up thoroughly and rinse with clean water. Treat as an acid spill.

*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 & Soil Extract Solvent*  
Absorb completely and dispose of as organic waste.

*Soil Extract*  
Absorb completely and dispose of as organic waste.

**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. Avoid breathing in Florisil material.

**Protective gloves** Always wear rubber gloves when performing the L2000 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**

<b>Property</b>	<b>Rinse, Extract &amp; Calibration</b>	<b>Ampule 1</b>	<b>Ampule 2</b>	<b>Soil Ext.</b>	<b>Soil Dry Col.</b>
Boiling Pt °C	110	N/A	168	256	N/A
Vapor Pressure mmHg @ 21°C	18	N/A	1.7	0.01	N/A
Solubility in Water	miscible	reacts	75%	0.3%	none
Specific Gravity	1.04	0.85	0.95	0.88	1.2
Percent Volatile	90	none	100	83	0
Evaporation Rate Butyl Acetate = 1	<0.01	N/A	0.36	<0.01	0
Appearance	green	gray	colorless	colorless	white cryst.
Odor	none	none	ether-like	ether-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 Productions** Sodium will form hydrogen and sodium oxide when moisture is present. Diglyme & Butyl 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**

<b>Component</b>	<b>Contents</b>	<b>TLV/(PEL)</b>
"Rinse, Extract and Calibration"	[Sulfuric Acid]/Nickel Nitrate in water <0.10% Nickel	[1 mg/m <sup>3</sup> / $<0.1$ ] mg/m <sup>3</sup>
Ampule 1 (gray color, yellow dot)	[Sodium] dispersed in oil	[2 mg/m <sup>3</sup> /2 mg/m <sup>3</sup> ]
Ampule 2 (blue-dot)	[Naphthalene] in Diglyme Sol'n	[50 mg/m <sup>3</sup> /50 mg/m <sup>3</sup> ] 5 ppm
"Soil Extract"	[Butyl Diglyme]/water	[N/A]
"Soil Drying Column"	Florisil	N/A

## **Section 12 – Ecological Information**

**Naphthalene:** Ecotoxicity in water (LC50): 305.2 ppm 96 hour(s) [Trout].

## **Section 13 – Disposal Considerations**

### **Rinse, Extract, Calibration**

Small quantities can be flushed away. Check federal, state and local environmental regulation for disposal of larger quantities of aqueous chemicals that contain nickel nitrate.

### **Soil Extract**

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

### **Test Tube 1**

Contents include reacted oil or soil sample extract, 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. Contents may contain PCB's when the original concentration is greater than 12,000 ppm.

## **SECTION 14 – TRANSPORTATION INFORMATION**

DOT		
Proper Shipping Name:	None	
Domestic Highway or Rail Transport Only:	As originally packaged by Dexsil Corporation, under Competent Authority Approval CA-1996100010, packages are approved for transportation by domestic highway or rail transport only. Packaging conforms to conditions and limitations specified in 49 CFR 173.4.	
IATA		
Proper Shipping Name:	Alkali Metal Dispersion	Corrosive liquid, acidic, inorganic, n.o.s. (sulfuric acid solution)
UN Number:	1391	3264
Hazard Class:	4.3	8
Packing Group	I	III

**NOTE:** UN1391 materials are packaged separately from UN3264 material.

## **SECTION 15 – REGULATORY INFORMATION**

### United States Regulatory Information

**SARA Listed:** Naphthalene/diglyme component and nickel nitrate are identified on SARA Sec. 313.

**TSCA Inventory Items:** Naphthalene/diglyme component and nickel nitrate.

**CERCLA Listed:** Naphthalene and nickel nitrate.

**EINECS:** Components of this product are on the European Inventory of Existing Commercial Chemical Substances.

## **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.

Date Prepared: 06-10-2021 Revision 19