

MATERIAL SAFETY DATA SHEET ZYGLO[®] PENETRANT ZL-2C

IDENTIFICATION 1.

Company:	MAGNAFLUX
Address:	3624 West Lake Avenue, Glenview, Illinois 60025
Telephone No.:	847-657-5300 (Off-Hour Emergency Number - CHEMTREC - 1-800-424-9300).
Product Use:	Fluorescent inspection penetrant
Packages:	1 gallon and 5 gallon pails, 20 gallon and 55 gallon drums
NFPA Rating:	Health 1, Flammability 1, Reactivity 0
PIN:	None
Revision Date:	January 25, 2012

2. HAZARDOUS INGREDIENTS

Ingredient	Wt./Wt. %	<u>CAS #</u>	\underline{TLV}	PEL	<u>LD</u> 50	<u>LC</u> 50
White mineral oil (petroleum)	30-60	8042-47-5	5 mg/m^3	5 mg/m^3	not avail.	not avail.
Isodecyl diphenyl phosphate	15-40	29761-21-5	not avail.	not avail.	15.8 g/kg (oral/rat)	2.2 mg/l [6 hr/(rat(2/6))]
Triphenyl phosphate	1-2	115-86-6	3 mg/m^3	not avail.	not avail.	not avail.

HAZARDS IDENTIFICATION 3.

EMERGENCY OVERVIEW Bland, oily liquid which may irritate the skin and eyes. Difficult to ignite, but will burn vigorously, if engulfed in fire.

POTENTIAL HEALTH EFFECTS

Skin Contact:	Can irritate by removing natural skin oils on long or repeated exposures.		
Eyes:	May cause irritation.		
Inhalation:	Not significant at room temperatures. When heated or sprayed, ZL-2C vapors may cause dizziness and nausea.		
Ingestion: Not significant in small (mouthful) amounts.			
Medical conditions known to be aggravated by exposure to product: None			

FIRST AID 4.

Skin Contact:	Wash off with soap and water. Use soothing lotion.		
Eyes:	Rinse carefully under upper and lower eyelids using plenty of water.		
Inhalation:	Remove to fresh air if dizzy or nauseated.		
Ingestion:	Do not induce vomiting. Accidental ingestion of a small mouthful is not expected to cause significant harm.		
NOTE: In all severe cases, contact physician immediately. Local telephone operators can furnish number of regional poison control center.			

FIRE HAZARD 5.

I IKE HAZAKD	
Conditions of flammability:	Heating above 200°F (93°C) in presence of ignition sources.
Flash point:	Min. 200°F (93°C) (Pensky-Martens closed cup)
Flammable limits in air:	1% to 6%
Extinguishing media:	Carbon dioxide, foam
Special fire fighting procedures:	Keep containers cool with water spray. Do not spray water directly on burning ZL-2C, it may float and
	spread the fire.
Hazardous combustion products:	Smoke, soot, oxides of carbon and nitrogen.
Unusual fire hazards:	None

ACCIDENTAL RELEASE MEASURES 6.

Mop up or sweep up with absorbent. (For disposal, see Section 13.)

7. HANDLING AND STORAGE

Avoid breathing spray mist. Avoid eye contact. Avoid repeated or prolonged skin contact.



3624 WEST LAKE AVENUE SLENVIEW, ILLINOIS 60026 TEL 847.657.5300 = FAX 847.657.5388 www.magnaflux.com

Page 1 of 2

ZYGLO[®]

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EAI OSUKE CONTROLS/TER	SONALIKOILUII
Controls:	None, unl
Personal protection:	Wear safe

None, unless applied as spray. Use where ventilation will carry spray mist away from occupied areas. Wear safety glasses to protect eyes. Wear nitrile rubber gloves if hand exposure is unavoidable. Respirator with filter if sprayed in enclosed, unventilated space.

9. PHYSICAL PROPERTIES

Density/sp. gravity:

Percent volatile:

Water solubility:

pH:

Min.455°F (235°C) (ASTM D-86) None 0.87 0% Neutral Vapor pressure:< 0.10 mm</th>Vapor density:Heavier thEvaporation rate:NegligibleAppearance:Green oilyOdor:Mild odor

< 0.10 mm @ 70° F (21°C) Heavier than air Negligible Green oily liquid Mild odor

10. STABILITY AND REACTIVITY

Initial boiling point (bulk):

Stability:	Stable
Incompatibility:	None
Hazardous decomposition products:	Soot, oxides of carbon if heated to combustion temperatures.
Reactivity:	None

11. TOXICOLOGICAL INFORMATION

Carcinogenicity:	Contains no known or suspected carcinogens listed with OSHA, IARC, NTP, or ACGIH.
Threshold limit value:	5 mg/m^3 for oily mist
WHMIS information (Canada):	According to available information, the ingredients have not been found to show reproductive toxicity,
8 0 1 827 N	teratogenicity, mutagenicity, skin sensitization, or synergistic toxic effects with other materials.

12. ECOLOGICAL INFORMATION

Because it contains 10% or more of a marine pollutant (Isodecyl Diphenyl phosphate) and 1% or more of a severe marine pollutant (Triphenyl Phosphate), ZL-2C is itself considered a marine pollutant. It floats on water and can be skimmed off. Its low vapor pressure may exempt it from VOC restrictions.

13. DISPOSAL

All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

14. TRANSPORTATION

U.S. DOT: 49 CFR 172.101 Hazardous Materials Table

	Non-Bulk and	
	Non-Vessel	Bulk or Vessel
Proper shipping name:	None, not restricted	Environmentally hazardous substance Liquid, n.o.s. (isodecyl
		diphenyl phosphate, triphenyl phosphate)
Technical Name of Hazardous Component(s):	None	Isodecyl Diphenyl phosphate, Triphenyl Phosphate
Hazard class or division:	None	9
Identification No.:	None	UN 3082
Packing Group:	None	III
Other Information:	None	This product contains 10% or more of a DOT Marine Pollutant
		(Isodecyl Diphenyl phosphate) and 1% or more of a DOT Severe
		Marine Pollutant (Triphenyl Phosphate).

15. REGULATORY INFORMATION

 TSCA:
 All ingredients are listed in TSCA inventory.

 CERCLA:
 Not reportable

 SARA TITLE III, Section 313:
 No reportable ingredients

 California Proposition 65:
 Contains nothing on this list

 WHMIS Class (Canada):
 D-2B

 Note: This MSDS has been prepared to meet WHMIS (Canada) requirements with the exception of using 16 headings.

16. OTHER INFORMATION

Revision Statement:ReviewSupersedes:July 16, 2009



3624 WEST LAKE AVENUE ■ GLENVIEW, ILLINOIS 60026 TEL 847.657.5300 ■ FAX 847.657.5388 www.magnaflux.com Page 2 of 2