MATERIAL SAFETY DATA SHEET

ZYGLO® PENETRANT ZL-2C

1. **IDENTIFICATION**

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
NFPA Rating: Health 1, Flammability 1, Reactivity 0

PIN: None

Revision Date: October 25, 2012

2. HAZARDOUS INGREDIENTS

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

3. HAZARDS IDENTIFICATION

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

4. FIRST AID

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.

5. **FIRE HAZARD**

Conditions of flammability: Heating above 200°F (93.3°C) in presence of ignition sources.

Flash point: Min. 200°F (93.3°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

6. ACCIDENTAL RELEASE MEASURES

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.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Controls: None, unless applied as spray. Use where ventilation will carry spray mist away from occupied areas. Personal protection: Wear safety glasses to protect eyes. Wear nitrile rubber gloves if hand exposure is unavoidable.

Respirator with filter if sprayed in enclosed, unventilated space.

PHYSICAL PROPERTIES

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Initial boiling point (bulk): Min.455°F (235°C) (ASTM D-86) Vapor pressure: < 0.10 mm @ 70° F (21°C)

Percent volatile: None Vapor density: Heavier than air 0.87 Negligible Density/sp. gravity: Evaporation rate: Water solubility: Green oily liquid 0% Appearance: pH: Neutral Odor: Mild odor

10. STABILITY AND REACTIVITY

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/m³ for oily mist

WHMIS information (Canada): According to available information, the ingredients have not been found to show reproductive toxicity,

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:None9Identification No.:NoneUN 3082Packing Group:NoneIII

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: Section 1,5 Supersedes: January 25, 2012

