

# MATERIAL SAFETY DATA SHEET

ZYGLO<sup>®</sup> PENETRANT ZL-37

## 1. IDENTIFICATION

**Company:** MAGNAFLUX  
**Address:** 3624 West Lake Avenue, Glenview, Illinois 60026  
**Telephone No.:** 847-657-5300 (Off-Hour Emergency Number - CHEMTREC - 1-800-424-9300).  
**Product Use:** Fluorescent inspection penetrant  
**Packages:** 5 gallon pails, 20 gallon and 55 gallon drums, pens  
**NFPA Rating:** Health 1, Flammability 1, Reactivity 0  
**PIN:** None  
**Revision Date:** October 5, 2012

## 2. HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>Wt./Wt. %</u>	<u>CAS #</u>	<u>TLV</u>	<u>PEL</u>	<u>LD<sub>50</sub></u>	<u>LC<sub>50</sub></u>
Severely hydrotreated heavy naphthenic petroleum distillates	30-60	64742-52-5	not avail.	5 mg/m <sup>3</sup>	>5 g/kg (oral/rat)	not avail.
Isodecyl diphenyl phosphate	15-40	29761-21-5	not avail.	not avail.	15.8 g/kg (oral/rat)	6.7 g/l (96 hr/bluegill)
Ethoxylated Nonylphenol	0-5	9016-45-9	not avail.	not avail.	not avail.	not avail.
Triphenyl phosphate	1-3	115-86-6	3 mg/m <sup>3</sup>	not avail.	3.5 g/kg (oral/rat)	290 mg/kg (96 hr/bluegill)

## 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-37 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-37. 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.  
Store away from heat sources.  
Do not spray around arcs or flames



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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.

9. **PHYSICAL PROPERTIES**

<i>Initial boiling point (bulk):</i>	Min.455°F(235°C) (ASTM D-86)	<i>Vapor pressure:</i>	Bulk: < 0.10mm @ 70° F (21° C)
<i>VOC Content (EPA Method 24):</i>	191 g/L	<i>Vapor density:</i>	Heavier than air
<i>Density/sp. gravity:</i>	0.96	<i>Evaporation rate:</i>	Negligible
<i>Water solubility:</i>	0%	<i>Appearance:</i>	Green oily liquid
<i>pH:</i>	Neutral	<i>Odor:</i>	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/m<sup>3</sup> 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-37 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**

	<b>Non-Bulk and Non-Vessel</b>	<b>Bulk or Vessel</b>
<i>Proper shipping name:</i>	None, not restricted	Environmentally hazardous substance Liquid, n.o.s. (isodecyl diphenyl phosphate, triphenyl phosphate)
<i>Technical Name of Hazardous Component(s):</i>	None	Isodecyl Diphenyl phosphate, Triphenyl Phosphate
<i>Hazard class or division:</i>	None	9
<i>Identification No.:</i>	None	UN 3082
<i>Packing Group:</i>	None	III
<i>Other Information:</i>	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:* Warning: This material may contain trace amounts of chemicals known to the state of California to cause cancer and/or birth defects and/or reproductive harm.  
*WHMIS Class (Canada):* Bulk: 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* September 16, 2010



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