

# MATERIAL SAFETY DATA SHEET

ZYGLO® PENETRANT ZL-60D

## 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  
**NFPA Rating:** Health 1, Flammability 1 (aerosol 4), Reactivity 0  
**PIN (Canada):** None  
**Revision Date:** October 5, 2012

## 2. INGREDIENTS

Ingredient	Wt./Wt. %	CAS#	TLV	PEL	LD <sub>50</sub>	LC <sub>50</sub>
White Mineral Oil (petroleum)	15-40	8042-47-5 or 64742-47-8	5 mg/m3	5 mg/m3	Not avail.	Not avail.
Alcohols, C6-10, Ethoxyl	15-40	68987-81-5	Not avail.	Not avail.	Not avail.	Not avail.
Alcohols, C12-15, Ethoxyl	10-30	68551-13-3	Not avail.	Not avail.	1.2 g/kg (oral/rat)	Not avail.
Tri-butoxyethyl phosphate	10-30	78-51-3	Not avail.	Not avail.	3 g/kg (oral/rat)	75mg/l
Secondary Alcohol Ethoxylate	0-20	84133-50-6	Not avail.	Not avail.	8.57 ml/kg (oral/rat)	Not avail.
Liquefied petroleum gasses (propellant, aerosol only)	30	68476-86-8	not avail.	1000 ppm	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. Aerosol is extremely flammable.**

### POTENTIAL HEALTH EFFECTS

**Skin Contact:** Can irritate by removing natural skin oils on long or repeated exposures.  
**Eyes:** Irritating  
**Inhalation:** Not significant. Heated bulk 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:** Bulk: Can ignite if heated above 200°F. Aerosol: Spraying near flames or arcs will ignite the spray mist.  
**Flash point (Bulk):** Minimum 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 on burning ZL-60D. It will float and spread the fire.  
**Hazardous combustion products:** Smoke, soot, oxides of carbon and nitrogen.  
**Unusual fire hazards:** Aerosol cans may burst if heated above 130°F (54°C) and spray contents into a fire.

## 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 repeated or prolonged skin contact. Avoid eye contact. Store away from heat sources.  
Storage Level 3 Aerosols per NFPA 30B

## 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



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3624 WEST LAKE AVENUE ■ GLENVIEW, ILLINOIS 60026  
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www.magnaflux.com

Initial boiling point (bulk): 455° F (235° C) (ASTM D-86)

Vapor pressure: Bulk: <0.10mm @ 70°F(21°C)  
Aerosol: 60 psi @ 75°F (24° C)

VOC Content (EPA Method 24): 356 g/L

Vapor density: Heavier than air

Density/sp. gravity: 0.92

Evaporation rate: Negligible

Water solubility: 0 (emulsifies into water)

Appearance: Green, oily liquid

pH: Neutral

Odor: Mild odor

10. **STABILITY AND REACTIVITY**

Stability: Stable

Incompatibility: None

Hazardous decomposition products: When burning, soot, carbon and nitrogen oxides.

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**

No data is available on ZL-60D. It emulsifies into water and is biodegradable. Its low bulk vapor pressure may exempt it from VOC restrictions. Aerosol propellant is not an ozone depleter.

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**

	<u>Non-aerosol</u>	<u>Aerosol</u>
Proper shipping name:	None, not restricted	Consumer commodity
Hazard class or division:	None	ORM-D
Identification No.:	None	None
Packing Group:	None	None

**IATA: List of Dangerous Goods**

	<u>Non-aerosol</u>	<u>Aerosol</u>
Proper shipping name:	None, not restricted	Aerosols, flammable
Hazard class or division:	None	2.1
Identification No.:	None	UN1950
Packing Group:	None	-

**IMDG: General Index**

	<u>Non-aerosol</u>	<u>Aerosol</u>
Proper shipping name:	None, not restricted	aerosols
Hazard class or division:	None	2.1
Identification No.:	None	UN1950
Packing Group:	None	-

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): Non-Aerosol: D-2B. Aerosol: A, B-5, 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: April 16, 2010



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