

## MATERIAL SAFETY DATA SHEET

ZYGLO® PENETRANT ZL-67

### 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:* 1 gallon cans, 5 gallon pails, 20 and 55 gallon drums, 250-300 gallon totes.  
*NFPA Rating:* Health 1, Flammability 1, Reactivity 0  
*PIN (Canada):* None  
*Revision Date:* March 29, 2010

### 2. HAZARDOUS INGREDIENTS

<i>Ingredient</i>	<i>Wt./Wt. %</i>	<i>CAS #</i>	<i>TLV</i>	<i>PEL</i>	<i>LD<sub>50</sub></i>	<i>LC<sub>50</sub></i>
Secondary Alcohol Ethoxylate	40-70	84133-50-6	Not avail.	Not avail.	8.57 ml/kg (oral/rat)	Not avail.
Alcohols, C6-10, Ethoxyl	10-30	68987-81-5	Not avail.	Not avail.	Not avail.	Not avail. 4.8 mg/L (96hr/Flathead Minnow)
Poly (oxy-1,2-ethanediyl),alpha-(nonylphenyl)-omega-hydroxy	7-13	9016-45-9	not avail.	not avail.	2 g/kg (oral/rat)	
Pentanedioic acid, dimethyl ester	1-5	1119-40-0	not avail.	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:* Irritating  
*Inhalation:* Not significant. When heated or sprayed, ZL-67 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°C) in presence of ignition sources.  
*Flash point (Bulk):* Minimum 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.  
*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 repeated or prolonged skin contact.  
Avoid eye contact.  
Store away from heat source.

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>	<0.10mm @ 70°F(21°C)
<i>VOC Content (EPA Method 24):</i>	89 g/L	<i>Vapor density:</i>	Heavier than air
<i>Density/sp. gravity:</i>	0.99	<i>Evaporation rate:</i>	Negligible
<i>Water solubility:</i>	0 (emulsifies into water)	<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 and nitrogen if heated to combustion temperature.  
*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 (Alcohol C6-C17 (secondary) poly (3-6) ethoxylate), ZL-67 is itself considered a marine pollutant. It emulsifies into water and is biodegradable. Its low bulk 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**

	<u>Non-Bulk and Non-Vessel</u>	<u>Bulk or Vessel</u>
<i>Proper shipping name:</i>	None, not restricted	Environmentally hazardous substance Liquid, n.o.s.
<i>Technical Name of Hazardous Component(s):</i>	None	Alcohol C6-C17 (secondary) poly (3-6) ethoxylate
<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 (Alcohol C6-C17 (secondary) poly (3-6) ethoxylate).

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):* 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: 13, 15  
*Supersedes:* April 13,2007  
*Prepared by:* Laurie Marx, Production Chemist