

MAGNAFLUX®

A Division of Illinois Tool Works Inc.

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## MATERIAL SAFETY DATA SHEET

ZYGLO® PENETRANT ZL-56

### 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.  
**NFPA Rating:** Health 1, Flammability 1, Reactivity 0  
**PIN (Canada):** None  
**Revision Date:** October 26, 2004

### 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>
Alcohols (C <sub>12</sub> -C <sub>18</sub> ), ethoxylated propoxylated	15-40	69227-21-0	not avail.	not avail.	2.6 g/kg (oral/rat)	not avail.
Alcohols (C <sub>11</sub> -C <sub>16</sub> ), secondary, ethoxylated	10-30	68131-40-8	not avail.	not avail.	2.4 g/kg (oral/rat)	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-56 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 sources.

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>	<0.10 mm @ 70°F(21°C)
<i>Percent volatile:</i>	None	<i>Vapor density:</i>	Heavier than air
<i>Density/sp. gravity:</i>	1.01	<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; 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-56. It emulsifies into water and is biodegradable. Its low bulk vapor pressure may exempt it from VOC restrictions.

13. **DISPOSAL**

As a non-hazardous oily waste, incinerate or send to waste handler who can blend it into secondary fuels.

*RCRA:* Not a hazardous waste  
*U.S. EPA Waste Number:* None

14. **TRANSPORTATION**

**U.S. DOT: 49 CFR 172.101 Hazardous Materials Table**  
Non-Aerosol  
*Proper shipping name:* None, not restricted  
*Hazard class or division:* None  
*Identification No.:* None  
*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):* 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:* 14,15  
*Supersedes:* MSDS dated 10/26/01  
  
*Prepared by:* Tamie Simmons, R&D Manager