

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: April 13, 2007

2. HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>Wt./Wt. %</u>	<u>CAS #</u>	<u>TLV</u>	<u>PEL</u>	<u>LD₅₀</u>	<u>LC₅₀</u>
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.	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)	not avail.
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

Initial boiling point (bulk):	Min. 455° F (235° C) (ASTM D-86)	Vapor pressure:	<0.10mm @ 70°F(21°C)
VOC Content (EPA Method 24):	89 g/L	Vapor density:	Heavier than air
Density/sp. gravity:	0.99	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: 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/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 (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

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

	<u>Non-Bulk and Non-Vessel</u>	<u>Bulk or Vessel</u>
Proper shipping name:	None, not restricted	Environmentally hazardous substance Liquid, n.o.s.
Technical Name of Hazardous Component(s):	None	Alcohol C6-C17 (secondary) poly (3-6) ethoxylate
Hazard class or division:	None	9
Identification No.:	None	UN 3082
Packing Group:	None	III
Other Information:	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: 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: 9

Supersedes: August 24, 2005

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