

MATERIAL SAFETY DATA SHEET

ZYGLO® PENETRANT ZL-4C

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 pail
NFPA Rating: Health 1, Flammability 0, Reactivity 0
PIH (Canada): None
Revision Date: September 6, 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>
Poly (oxy-1,2-ethanediyl), α -(nonylphenyl)- ω -hydroxy	15-40	9016-45-9	not avail.	not avail.	2 g/kg (oral/rat)	4.8 mg/L (96hr/Flathead Minnow)
2,2'-oxybis-ethanol	15-40	111-46-6	not avail. 25 ppm (ceiling)	not avail. 25 ppm (ceiling)	1 g/kg (oral/human)	not avail.
2-methyl-2,4-pentanediol	1-5	107-41-5			2.8 g/kg (oral/guinea pig)	5 mg/L (Rat)

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Bland liquid which may irritate the skin and eyes.

POTENTIAL HEALTH EFFECTS

Skin Contact: Can irritate by removing natural skin oils on long or repeated exposures.
Eyes: Mildly irritating.
Inhalation: Not significant.
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: Not applicable.
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: None
Flash point: None
Flammable limits in air: None
Extinguishing media: None
Special fire fighting procedures: None
Hazardous combustion products: None
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.

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.

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9. PHYSICAL PROPERTIES

<i>Initial boiling point (bulk):</i>	212°F (100°C) (ASTM D-86)	<i>Vapor pressure:</i>	< 25 mm @ 70°F (21°C)
<i>Percent volatile:</i>	65%	<i>Vapor density:</i>	Lighter than air
<i>Density/sp. gravity:</i>	1.03	<i>Evaporation rate:</i>	Like water
<i>Water solubility:</i>	Completely	<i>Appearance:</i>	Clear, green liquid
<i>pH:</i>	Neutral	<i>Odor:</i>	Odorless

10. STABILITY AND REACTIVITY

<i>Stability:</i>	Stable
<i>Incompatibility:</i>	None
<i>Hazardous decomposition products:</i>	None
<i>Reactivity:</i>	None

11. TOXICOLOGICAL INFORMATION

<i>Carcinogenicity:</i>	Contains no known or suspected carcinogens listed with OSHA, IARC, NTP, or ACGIH.
<i>Threshold limit value:</i>	None for water vapor
<i>WHMIS information (Canada):</i>	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-4C. It dissolves into water and is biodegradable.

13. DISPOSAL

As a non-hazardous waste, send to a waste handler for proper disposal.

<i>RCRA:</i>	Not a hazardous waste
<i>U.S. EPA Waste Number:</i>	None

14. TRANSPORTATION

U.S. DOT: 49 CFR 172.101 Hazardous Materials Table

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

15. REGULATORY INFORMATION

<i>TSCA:</i>	All ingredients are listed in TSCA inventory.
<i>CERCLA:</i>	Not reportable
<i>SARA TITLE III, Section 313:</i>	No reportable ingredients
<i>California Proposition 65:</i>	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.
<i>WHMIS Class (Canada):</i>	D-2B
Note: This MSDS has been prepared to meet WHMIS (Canada) requirements with the exception of using 16 headings.	

16. OTHER INFORMATION

<i>Revision Statement:</i>	Review
<i>Supersedes:</i>	October 26, 2004

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