

**MATERIAL SAFETY DATA SHEET**

ZYGLO® EMULSIFIER ZR-10B

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:* Penetrant remover  
*Packages:* 5 gallon pail, 20 gallon and 55 gallon drums  
*NFPA Rating:* Health 1, Flammability 1, Reactivity 0  
*PIN:* None  
*Revision Date:* April 13, 2007

2. **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>
Poly (oxy-1,2-ethanediyl),alpha-(nonylphenyl)-omega-hydroxy	60-100	9016-45-9	not avail. 25 ppm	not avail. 25 ppm	2 g/kg (oral/rat)	4.8 mg/L (96hr/Flathead Minnow)
2-methyl-2,4-pentanediol	30-60	107-41-5	(ceiling)	(ceiling)	2.8 g/kg (oral/guinea pig)	5 mg/L (Rat)

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 at room temperatures. When heated or sprayed, ZR-10B 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 & lower eyelids using plenty of water.  
*Inhalation:* Remove to fresh air.  
*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:* Min. 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. In use, ZR-10B is dissolved into water, nearly eliminating its ability to burn.  
*Hazardous combustion products:* Smoke, soot, oxides of carbon  
*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 eye contact. Avoid repeated or prolonged skin contact.

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. 385°F (196°C) (ASTM D-86) *Vapor pressure:* < 0.10mm @70° F (21° C)  
*VOC Content (EPA Method 24):* 449 g/L *Vapor density:* Heavier than air  
*Density/sp. gravity:* 0.9 *Evaporation rate:* Negligible  
*Water solubility:* 100% *Appearance:* Pink viscous liquid  
*pH:* Neutral *Odor:* Mild odor
10. **STABILITY AND REACTIVITY**  
*Stability:* Stable  
*Incompatibility:* None  
*Hazardous decomposition products:* Soot, oxides of carbon if heated to combustion temperatures.  
*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 ZR-10B. It dissolves into water and is biodegradable. Its low 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:* Section 9  
*Supersedes:* October 26, 2004  
*Prepared by:* Tamie Simmons, R&D Manager