

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 3, Flammability 1, Reactivity 0
PIN: None
Revision Date: March 29, 2010

2. 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),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**
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| <i>Initial boiling point (bulk):</i> | Min.385°F(196°C) (ASTM D-86) | <i>Vapor pressure:</i> | < 0.10mm @ 70° F (21° C) |
| <i>VOC Content (EPA Method 24):</i> | 449 g/L | <i>Vapor density:</i> | Heavier than air |
| <i>Density/sp. gravity:</i> | 0.9 | <i>Evaporation rate:</i> | Negligible |
| <i>Water solubility:</i> | 100% | <i>Appearance:</i> | Pink viscous liquid |
| <i>pH:</i> | Neutral | <i>Odor:</i> | Mild odor |
10. **STABILITY AND REACTIVITY**
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| <i>Stability:</i> | Stable |
| <i>Incompatibility:</i> | None |
| <i>Hazardous decomposition products:</i> | Soot, oxides of carbon if heated to combustion temperatures. |
| <i>Reactivity:</i> | None |
11. **TOXICOLOGICAL INFORMATION**
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| <i>Carcinogenicity:</i> | Contains no known or suspected carcinogens listed with OSHA, IARC, NTP, or ACGIH. |
| <i>Threshold limit value:</i> | 5 mg/m ³ for oily mist |
| <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 ZR-10B. It dissolves into water and is biodegradable. Its low 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**
- Non-aerosol**
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| <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**
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| <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**
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| <i>Revision Statement:</i> | Section 1,13 |
| <i>Supersedes:</i> | April 13, 2007 |
| <i>Prepared by:</i> | Laurie Marx, Production Chemist |