

MATERIAL SAFETY DATA SHEET

ZYGLO® EMULSIFIER ZE-4B

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: General purpose emulsifier
Packages: 5 gallon pails, 20 gallon and 55 gallon drums
NFPA Rating: Health 1, Flammability 1, Reactivity 0
PIN: None
Revision Date: September 6, 2007

2. HAZARDOUS INGREDIENTS

<i>Ingredient</i>	<i>Wt./Wt. %</i>	<i>CAS #</i>	<i>TLV</i>	<i>PEL</i>	<i>LD₅₀</i>	<i>LC₅₀</i>
Severely hydrotreated heavy naphthenic distillates (petroleum)	60-100	64742-52-5	not avail.	not avail.	not avail.	not avail.
Secondary alcohol ethoxylate	15-20	84133-50-6	not avail.	not avail.	2.4 g/kg (oral/rat)	not avail.
3-cyclohexene-1-methanol α,α 4-trimethyl-	10-30	98-55-5	not avail.	not avail.	3.2 g/kg (oral/rat)	not avail.
Alcohols (C ₁₂ - C ₁₈) ethoxylated, propoxylated	5-10	69227-21-0	not avail.	not avail.	2.6 g/kg (oral/rat)	not avail.
Poly (oxy-1,2-ethanediyl) _x -(nonylphenyl)- ω -hydroxy	3-7	9016-45-9	not avail.	not avail.	2 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 at operating temperatures.
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.
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: 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. Do not spray water directly on burning ZE-4B. It may float and spread the fire.
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

Store away from heat source.
 Avoid eye contact.
 Avoid repeated or prolonged skin contact.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Controls: None
Personal protection: Wear safety glasses to protect eyes.
 Wear nitrile rubber gloves if hand exposure is unavoidable.

9. **PHYSICAL PROPERTIES**

<i>Initial boiling point (bulk):</i>	455° F (235° C) (ASTM D-86)	<i>Vapor pressure:</i>	< 0.10mm @ 70° F (21° C)
<i>Percent volatile:</i>	None	<i>Vapor density:</i>	Heavier than air
<i>Density/sp. gravity:</i>	0.92	<i>Evaporation rate:</i>	Negligible
<i>Water solubility:</i>	0 (emulsifies into water)	<i>Appearance:</i>	Pink viscous liquid
<i>pH:</i>	Neutral	<i>Odor:</i>	Mild pine odor

10. **STABILITY AND REACTIVITY**

Stability: Stable
Conditions to avoid: None
Incompatibility: None
Hazardous decomposition products: Soot, oxides of carbon when burning
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**

No data is available on ZE-4B. It emulsifies 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
Proper shipping name: Non-Aerosol
Hazard class or division: None, not restricted
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: Review
Supersedes: October 26, 2004

Prepared by: Tamie Simmons, R&D Manager