

MATERIAL SAFETY DATA SHEET

ZYGLO® PENETRANT ZL-19

1. IDENTIFICATION

Company: MAGNAFLUX
Address: 3624 West Lake Avenue, Glenview, Illinois 60025
Telephone No.: 847-657-5300 (Off-Hour Emergency Number - CHEMTREC - 1-800-424-9300).
Product Use: Fluorescent inspection penetrant
Packages: 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 15, 2011

2. HAZARDOUS INGREDIENTS

Ingredient	Wt./Wt. %	CAS #	TLV	PEL	LD ₅₀	LC ₅₀
White mineral oil (petroleum)	60-100	8042-47-5	not avail.	not avail.	not avail.	not avail.
Alcohols (C ₁₂ -C ₁₈), ethoxylated propoxylated	10-30	69227-21-0	not avail.	not avail.	2.6 g/kg (oral/rat)	not avail.
Alcohols (C ₁₁ -C ₁₅) - secondary, ethoxylated	5-10	68131-40-8	not avail.	not avail.	2.4 g/kg (oral/rat)	not avail.
3-Cyclohexene-1-methanol, $\alpha,\alpha,4$ -trimethyl-	1-5	98-55-5	not avail.	not avail.	3.2 g/kg (oral/rat)	not avail. (rat(2/6))
9-octadecenamide, N-(2-hydroxypropyl)-, (Z)	1-5	111-05-7	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-19 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. Do not spray water on burning ZL-19. It may float and spread the fire.
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**

<i>Initial boiling point (bulk):</i>	Min. 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>		0.88	<i>Evaporation rate:</i> Negligible
<i>Water solubility:</i>	0 (emulsifies into water)	<i>Appearance:</i>	Green, oily liquid
<i>pH:</i>	Neutral	<i>Odor:</i>	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**

ZL-19 emulsifies into water and is biodegradable. Its low bulk 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

	<u>Bulk</u>
<i>Proper shipping name:</i>	None, not restricted
<i>Technical Name of Hazardous Component(s):</i>	None
<i>Hazard class or division:</i>	None
<i>Identification No.:</i>	None
<i>Packing Group:</i>	None
<i>Other Information:</i>	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: 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 13
Supersedes: MSDS dated: April 22, 2008

