

MATERIAL SAFETY DATA SHEET ZYGLO® PENETRANT ZL-27A

IDENTIFICATION

MAGNAFLUX Company:

3624 West Lake Avenue, Glenview, Illinois 60026 Address:

Telephone No.: 847-657-5300 (Off-Hour Emergency Number - CHEMTREC - 1-800-424-9300).

Fluorescent inspection penetrant Product Use:

Packages: 1 gallon cans, 5 gallon pails, 20 gallon and 55 gallon drums, aerosols.

Health 1, Flammability 1, (Aerosol Flammability 4), Reactivity 0 NFPA Rating:

PIN: None

April 16, 2010 Revision Date:

HAZARDOUS INGREDIENTS

<u>Ingredient</u>	Wt./Wt. %	<u>CAS #</u>	\underline{TLV}	<u>PEL</u>	\underline{LD}_{50}	<u>LC</u> 50
White mineral oil (petroleum)	30-60	8042-47-5	not avail.	not avail.	not avail.	not avail.
Isodecyl diphenyl phosphate					15.8 g/kg	2.2 mg/l
	30-60	29761-21-5	not avail.	not avail.	(oral/rat)	[6 hr/(rat(2/6))]
Castor oil	10-30	8001-79-4	not avail.	not avail.	not avail.	not avail.
Triphenyl phosphate	1-2	115-86-6	3 mg/m^3	not avail.	not avail.	not avail.
Isobutane (propellant)	30	75-28-5	not avail.	1000 ppm	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. Aerosol is extremely flammable.

POTENTIAL HEALTH EFFECTS

Skin Contact: Can irritate by removing natural skin oils on long or repeated exposures.

Eyes: May cause irritation.

Inhalation: Not significant at room temperatures. When heated or sprayed, ZL-27A vapors may cause dizziness and nausea.

Not significant in small (mouthful) amounts. Ingestion:

Medical conditions known to be aggravated by exposure to product: None

FIRST AID

Skin Contact: Wash off with soap and water. Use soothing lotion.

Rinse carefully under upper and lower eyelids using plenty of water. Eyes:

Inhalation: Remove to fresh air if dizzy or nauseated.

Do not induce vomiting. Accidental ingestion of a small mouthful is not expected to cause significant harm. Ingestion:

NOTE: In all severe cases, contact physician immediately. Local telephone operators can furnish number of regional poison control center.

FIRE HAZARD

Conditions of flammability: Bulk: Heating above 200°F (93°C) in presence of ignition sources. Aerosol: Spraying near flames or arcs will ignite the spray

mist

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 ZL-27A. It may float and spread the

Hazardous combustion products: Smoke, soot, oxides of carbon and nitrogen.

Aerosol cans may burst at temperatures over 130°F (54°C) and spray contents into a fire. Unusual fire hazards:

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. Store away from heat source. Storage Level 3 Aerosols per NFPA 30B

EXPOSURE CONTROLS/PERSONAL PROTECTION

None, unless applied as spray. Use where ventilation will carry spray mist away from occupied areas. Controls:

Wear safety glasses to protect eyes. Wear nitrile rubber gloves if hand exposure is unavoidable. Personal protection:

Respirator with filter if sprayed in enclosed, unventilated space.

PHYSICAL PROPERTIES

Min.455°F(235°C) (ASTM D-86) Vapor pressure: Bulk: < 0.10 mm @ 70° F (21° C) Initial boiling point (bulk):

Aerosol: 60 psi @ 75°F(24°C)

VOC Content (EPA Method 24): 539 g/L Heavier than air Vapor density: Density/sp. gravity: 0.96 Evaporation rate: Negligible Water solubility: 0% Appearance: Green oily liquid Odor: Mild odor pH: Neutral

10. STABILITY AND REACTIVITY

Stability: Stable Incompatibility: None

Hazardous decomposition products: Soot, oxides of carbon if heated to combustion temperatures.

Non-Bulk and

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.

Bulk or Vessel

Aerosols

12. ECOLOGICAL INFORMATION

Because it contains 10% or more of a marine pollutant (Isodecyl Diphenyl phosphate) and 1% or more of a severe marine pollutant (Triphenyl Phosphate), ZL-27A is itself considered a marine pollutant. It floats on water and can be skimmed off. Its low bulk vapor pressure may exempt it from VOC restrictions.

The hydrocarbon propellant is not an ozone depleter.

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

None		VEV. 7-10 / 10 / 10 / 10 / 10 / 10 / 10 / 10 /		
diphenyl phosphate, triphenyl phosphate None Isodecyl Diphenyl phosphate, Triphenyl Phosphate None ORM-D		Non-Vessel		
Hazard class or division: None 10	Proper shipping name:	None, not restricted		Consumer commodity
Mone None None III None N	Technical Name of Hazardous Component(s):	None	Isodecyl Diphenyl phosphate, Triphenyl Phosphate	None
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(Isodecyl Diphenyl phosphate) and 1% or more of a DOT Severe labeled as a marine	Packing Group:	None	III	None
	Other Information:	None	(Isodecyl Diphenyl phosphate) and 1% or more of a DOT Severe	labeled as a marine

15. **REGULATORY INFORMATION**

TSCA: All ingredients are listed in TSCA inventory. CERCLA: Not reportable

SARA TITLE III, Section 313:

California Proposition 65:

WHMIS Class (Canada):

No reportable ingredients

Contains nothing on this list

Bulk: D-2B, Aerosol: A, B-5, D-2B

Note: This MSDS has been prepared to meet WHMIS (Canada) requirements with the exception of using 16 headings.

OTHER INFORMATION

Revision Statement: Section 7 Supersedes: March 29, 2010

Prepared by: Tamie Simmons, Research Manager

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