

Chemical Name: Zyglo ZL-27A Penetrant

Manufacturer: Magnaflux

Container size: 256g

Location: VLA

<u>Disposal:</u> Place empty container in trash.



MATERIAL SAFETY DATA SHEET

ZYGLO® PENETRANT ZL-27A

1. <u>IDENTIFICATION</u>

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: Fluorescent inspection penetrant

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

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

PIN: None

Revision Date: April 16, 2010

2. HAZARDOUS INGREDIENTS

Ingredient	Wt./Wt. %	<u>CAS #</u>	<u>TLV</u>	<u>PEL</u>	\underline{LD}_{50}	\underline{LC}_{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.

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.

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

fire.

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

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

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

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

Aerosol: 60 psi @ 75°F(24°C)

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

Dulls on Wossel

Aprocole

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.

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-Bulk and Non-Vessel	Bulk or Vessel	Aerosols
Proper shipping name:	None, not restricted	Environmentally hazardous substance Liquid, n.o.s. (isodecyl diphenyl phosphate, triphenyl phosphate)	Consumer commodity
Technical Name of Hazardous Component(s):	None	Isodecyl Diphenyl phosphate, Triphenyl Phosphate	None
Hazard class or division:	None	o	ORM-D
Identification No.:	None	UN 3082	None
v	None	III	None
Packing Group:			
Other Information:	None	This product contains 10% or more of a DOT Marine Pollutant (Isodecyl Diphenyl phosphate) and 1% or more of a DOT Severe	None
		Marine Pollutant (Triphenyl Phosphate).	
IATA: List of Dangerous Goods			
Proper shipping name:	None, not restricted	Environmentally hazardous substance Liquid, n.o.s. (isodecyl diphenyl phosphate, triphenyl phosphate)	Aerosol, Flammable, UN 1950, 2.1
Hazard class or division:	None	9	2.1
Identification No.:	None	UN 3082	UN 1950
Packing Group:	None	III	None
Other Information:	None	This product contains 10% or more of a DOT Marine Pollutant	None
		(Isodecyl Diphenyl phosphate) and 1% or more of a DOT Severe	
		Marine Pollutant (Triphenyl Phosphate).	
IMDG: General Index			
Proper shipping name:	None, not restricted	Environmentally hazardous substance Liquid, n.o.s. (isodecyl diphenyl phosphate, triphenyl phosphate)	Aerosols, 2.1, UN 1950
Hazard class or division:	None	9	2.1
Identification No.:	None	UN 3082	UN 1950
Packing Group:	None	III	None
Other Information:	None	This product contains 10% or more of a DOT Marine Pollutant	Each case must be
v		(Isodecyl Diphenyl phosphate) and 1% or more of a DOT Severe	labeled as a marine
		Marine Pollutant (Triphenyl Phosphate).	pollutant.

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.

16. OTHER INFORMATION

Revision Statement: Section 7 Supersedes: March 29, 2010

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www.magnaflux.com