# **MATERIAL SAFETY DATA SHEET**

ZYGLO® PENETRANT ZL-27A

**IDENTIFICATION** 1.

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: Packages:

Fluorescent inspection penetrant

NFPA Rating:

1 gallon cans, 5 gallon pails, 20 gallon and 55 gallon drums, aerosols. Health 1, Flammability 1, (Aerosol Flammability 4), Reactivity 0

PIN: None

Revision Date: April 13, 2007

#### 2. **HAZARDOUS INGREDIENTS**

Ingredient	— Wt./Wt. %	CAS#	ŢLV	PEL	$\underline{LD}_{5\theta}$	1.C
White mineral oil		<del></del>	<del></del>	<u> </u>	<u>2230</u>	<u>LC50</u>
(petroleum)	30-60	8042-47-5	not avail.	not avail.	not avail.	not avail.
Isodecyl diphenyl					15.8 g/kg	2.2 mg/l
phosphate	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	$3 \text{ mg/m}^3$	not avail.	not avail.	not avail.
Isobutane (propellant)	30	75-28-5	not avail.	1000 ppm	not avail.	not avail.

#### **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: Inhalation: May cause irritation.

Not significant at room temperatures. When heated or sprayed, ZL-27A vapors may cause dizziness and nausea. Not significant in small (mouthful) amounts.

Inaestion:

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

### **FIRST AID**

Skin Contact:

Wash off with soap and water. Use soothing totion.

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

Inaestion:

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

## **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.

#### 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.

## **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Controls:

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

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.

A Discission of Linear Type Works Inc.

3624 WEST LAKE AVENUE # GJENVIEW, ILLINOIS 60026

TE. 8476575300 ■ FAX 84Z65Z5388

www.magnal.ux.com

## 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: 0% Evaporation rate: Negligible Appearance: Green oily liquid

pH: Neutral Odor: Mild odor

#### 10. STABILITY AND REACTIVITY

Stability: Stable Incompatibility: None

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

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 misi

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

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

As a non-hazardous oily waste, incinerate or send to waste handler who can blend it into secondary fuels. Empty aerosol cans before

disposal.

RCRA: Not a hazardous waste

U.S. EPA Waste Number: None

#### 14. TRANSPORTATION

U.S. DOT: 49 CFR 172.101 Hazardous Materials Table

	Non-Bulk and	Bulk or Vessel	Aerosols
Proper shipping name:	Non-Vessel	Produces All I I I I I I I I I I I I I I I I I I	
rroper snipping name.	None, not restricted	Environmentally hazardous substance Liquid, n.o.s. (isodecyl	Consumer commodity
Technical Name of Hazardous Component(s):	Nama	diphenyl phosphate, triphenyl phosphate)	••
Hazard class or division:	None	Isodecyl Diphenyl phosphate, Triphenyl Phosphate	None
	None	9	ORM-D
Identification No.:	None	UN 3082	None
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).	
IATA: List of Dangerous Goods			
Proper shipping name:	None, not restricted	Environmentally hazardous substance Liquid, π.o.s. (isodecyl	Aerosol, Flammable,
		diphenyl phosphate, triphenyl phosphate)	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	Aerosols, 2.1, UN 1950
, ,, ,,		diphenyl phosphate, triphenyl phosphate)	7(03013, 2.1, 014 1750
Hazard class or division:	None	9	2.1
Identification No.:	None	UN 3082	UN 1950
Packing Group:	None	(II	None
Other Information:	None	This product contains 10% or more of a DOT Marine Pollutant	Each case must be
,		(Isodecyl Diphenyl phosphate) and 1% or more of a DOT Severe	labeled as a marine
		Marine Pollutant (Triphenyl Phosphate).	pollutant.
	•		ponutant.

## REGULATORY INFORMATION

TSCA: All ingredients are listed in TSCA inventory.

CERCLA:

Not reportable No reportable ingredients SARA TITLE III, Section 313: California Proposition 65: WHMIS Class (Canada): 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: 5 Section 9 Supersedes:

April 12, 2006 Tamie Simmons, Research Manager Prepared by: