

MATERIAL SAFETY DATA SHEET

ZYGLO® AQUEOUS DEVELOPER ZP-14A

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: Developer for fluorescent penetrants.
Packages: 20 lb. and 50 lb. boxes.
NFPA Rating: Health 1, Flammability 0, Reactivity 0.
PIN (Canada): None
Revision Date: September 17, 2010

2. INGREDIENTS

<u>Ingredient</u>	<u>Wt./Wt. %</u>	<u>CAS #</u>	<u>TLV</u>	<u>PEL</u>	<u>LD₅₀</u>	<u>LC₅₀</u>
Pentaerythritol	10-30	115-77-5	10 mg/m ³	5 mg/m ³	10 g/kg (oral/rat)	not avail. 1.93 mg/L
Sodium molybdate	1-5	7631-95-0	10 mg/m ³	5 mg/m ³	4 g/kg (oral/rat)	(4hr/rat)
Ethoxylated C ₁₂ -C ₁₈ alcohols	1-5	69227-21-0	not avail.	not avail.	2.0 g/kg (oral/rat)	not avail.
Sodium sesquicarbonate	1-5	533-96-0	10 mg/m ³	5 mg/m ³	2 g/kg (oral/rat)	5 mg/L (4hr/rat) 440 mg/L
Trisodium phosphate	1-5	7601-54-9	3 mg/m ³	5 mg/m ³	6.5 g/kg (oral/rat)	(96hr/bluegill)

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

As a dry powder concentrate, ZP-14A is a nuisance dust. When diluted for use as specified (one and one quarter pounds per gallon of water), it is an alkaline solution.

POTENTIAL HEALTH EFFECTS

Skin Contact: Can irritate in dry powder form.
Eyes: Irritating
Inhalation: Not significant when ZP-14A is in use.
Ingestion: Not significant in small (mouthful) amounts.
Medical conditions known to be aggravated by exposure to product: None

4. FIRST AID

Skin Contact: Rinse with water. Use soothing lotion.
Eyes: Rinse carefully under upper and lower eyelids using plenty of water.
Inhalation: Not applicable.
Ingestion: None

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: None
Flammable limits in air: None
Extinguishing media: Not applicable.
Special fire fighting procedures: None
Hazardous combustion products: None
Unusual fire hazards: None

6. ACCIDENTAL RELEASE MEASURES

Mop or sweep up. (For disposal, see Section 13).

7. HANDLING AND STORAGE

Avoid breathing dust.
 Avoid repeated or prolonged skin contact with aqueous ZP-14A solution.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Controls: None
Personal protection: Nitrile rubber gloves if hand exposure is unavoidable.

9. **PHYSICAL PROPERTIES**

<i>Initial boiling point (bulk):</i>	None	<i>Vapor pressure:</i>	None
<i>Percent volatile:</i> None	<i>Vapor density:</i>	Not applicable	
<i>Density/sp. gravity:</i>	0.6 (bulk)	<i>Evaporation rate:</i>	None
<i>Water solubility:</i>	100%	<i>Appearance:</i>	White powder
<i>pH:</i>	10 (10% in water)	<i>Odor:</i>	None

10. **STABILITY AND REACTIVITY**

Stability: Stable
Incompatibility: None
Hazardous decomposition products: If heated to combustion temperature, soot, smoke, and oxides of carbon.
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 respirable dust.
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 ZP-14A.

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

Proper shipping name: None, not restricted
Hazard class or division: None
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: Section 2, Section 13
Supersedes: September 6, 2007