

# MATERIAL SAFETY DATA SHEET

ZYGLO® AQUEOUS DEVELOPER ZP-5B

**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:* 25 lb. box  
*NFPA Rating:* Health 1, Flammability 0, Reactivity 0.  
*PIN (Canada):* None  
*Revision Date:* September 6, 2007

**2. INGREDIENTS**

<i>Ingredient</i>	<i>Wt./Wt. %</i>	<i>CAS #</i>	<i>TLV</i>	<i>PEL</i>	<i>LD<sub>50</sub></i>	<i>LC<sub>50</sub></i>
Talc	60-100	14807-96-6	not avail.	2 mg/m <sup>3</sup>	not avail.	not avail.
Polyalkene oxide, modified heptamethyl trisiloxane	5-10	27306-78-1	not avail.	not avail.	2 g/kg (oral/rat)	not avail.
Trisodium phosphate	1-5	7601-54-9	3 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	6.5 g/kg (oral/rat)	440 mg/L (96hr/bluegill)
Ethoxylated C <sub>12</sub> -C <sub>18</sub> alcohols	1-5	69227-21-0	not avail.	not avail.	2.6 g/kg (oral/rat)	not avail.

**3. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**  
 As dry powder concentrate, ZP-5B is a nuisance dust. When diluted for use as specified (from one half to two 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-5B is mixed with water.  
*Ingestion:* Not significant in small (mouthful) amounts.  
*Medical conditions known to be aggravated by exposure to product:* None

**4. FIRST AID**

*Skin Contact:* Rinse off 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 up or sweep up. (For disposal, see Section 13).

**7. HANDLING AND STORAGE**

Avoid breathing dust.  
 Avoid repeated or prolonged skin contact with aqueous ZP-5B 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>	20%	<i>Appearance:</i>	White powder
<i>pH:</i>	10.3 (10% in water)	<i>Odor:</i>	None

10. **STABILITY AND REACTIVITY**

<i>Stability:</i>	Stable
<i>Incompatibility:</i>	None
<i>Hazardous decomposition products:</i>	If heated to combustion temperature, soot, smoke, and oxides of carbon.
<i>Reactivity:</i>	None

11. **TOXICOLOGICAL INFORMATION**

<i>Carcinogenicity:</i>	Contains no known or suspected carcinogens listed with OSHA, IARC, NTP, or ACGIH.
<i>Threshold limit value:</i>	2 mg/m <sup>3</sup> for respirable dust.
<i>WHMIS information (Canada):</i>	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-5B.

13. **DISPOSAL**

Dispose of as ordinary waste.

<i>RCRA:</i>	Not a hazardous waste
<i>U.S. EPA Waste Number:</i>	None

14. **TRANSPORTATION**

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

<i>Proper shipping name:</i>	None, not restricted
<i>Hazard class or division:</i>	None
<i>Identification No.:</i>	None
<i>Packing Group:</i>	None

15. **REGULATORY INFORMATION**

<i>TSCA:</i>	All ingredients are listed in TSCA inventory.
<i>CERCLA:</i>	Not reportable
<i>SARA TITLE III, Section 313:</i>	No reportable ingredients
<i>California Proposition 65:</i>	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.
<i>WHMIS Class (Canada):</i>	D-2B

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

16. **OTHER INFORMATION**

<i>Revision Statement:</i>	Review
<i>Supersedes:</i>	October 26, 2004
<i>Prepared by:</i>	Tamie Simmons, R&D Manager