

MATERIAL SAFETY DATA SHEET

ZYGLO® DRY POWDER DEVELOPER ZP-4B

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: 1 pint can, 10 and 25 lb. boxes.
NFPA Rating: Health 1, Flammability 1, Reactivity 0.
PIN (Canada): None
Revision Date: September 6, 2007

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	40-70	115-77-5	10 mg/m ³	5 mg/m ³	10 g/kg (oral/rat)	not avail.
Hexamethyldisilazane, silica reaction product	3-7	68909-20-6	10 mg/m ³	5 mg/m ³	2 g/kg	not avail.
Aluminum oxide	3-7	1344-28-1	10 mg/m ³	5 mg/m ³	not avail.	not avail.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Nuisance dust.

POTENTIAL HEALTH EFFECTS

Skin Contact: None
Eyes: Gritty material may scratch eyeball
Inhalation: May plug breathing passages
Ingestion: Not significant
Medical conditions known to be aggravated by exposure to product: None

4. FIRST AID

Skin Contact: None
Eyes: Rinse carefully under upper and lower eyelids using plenty of water.
Inhalation: Remove to fresh air.
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: None
Special fire fighting procedures: None
Hazardous combustion products: None
Unusual fire hazards: Floating ZP-4B dust can be ignited by high energy arc (350 joules or watt-seconds) or temperatures higher than 383°F (195°C).

6. ACCIDENTAL RELEASE MEASURES

Sweep up. (For disposal, see Section 13).

7. HANDLING AND STORAGE

Avoid breathing dust.
Keep dry.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Controls: None.
Personal protection: Respirator with filter if used in enclosed, unventilated space.

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>	0.2	<i>Evaporation rate:</i>	None
<i>Water solubility:</i>	4%	<i>Appearance:</i>	Fluffy white dusty powder
<i>pH:</i>	Neutral	<i>Odor:</i>	None

10. **STABILITY AND REACTIVITY**

<i>Stability:</i>	Stable
<i>Incompatibility:</i>	Acids
<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>	5 mg/m ³ 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-4B.

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>	Aluminum oxide
<i>California Proposition 65:</i>	Contains nothing on this list
<i>WHMIS Class (Canada):</i>	Not a controlled product.

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