

**MATERIAL SAFETY DATA SHEET**

**ZYGLO<sup>®</sup> DRY POWDER DEVELOPER - ZP- 4 B**

**1. IDENTIFICATION**

COMPANY : ITW INDIA PRIVATE LIMITED  
 ADDRESS : PLOT NO 51, 52,207 & 208, PHASE – 2, IDA  
 TSIIC, PASHAMMYLARAM,  
 SANGAREDDY – 502 307, TELANGANA  
 INDIA.  
 TELEPHONE : 91 – 8455 – 224710  
 FAX : 91 – 8455 – 224709  
 PRODUCT USE : Developer for Fluorescent Penetrant Inspection  
 PACKAGES : 1 kg  
 NFPA Rating : Health 1, Flammability 1, Reactivity 0.  
 Revision Date : April 1, 2020.

**2. HAZARDOUS INGREDIENTS**

| <u>Ingredient</u>                                | <u>Wt/Wt%</u> | <u>CAS#</u> | <u>TLV</u> | <u>PEL</u> | <u>LD 50</u>        | <u>LC 50</u> |
|--|---------------|-------------|------------|------------|---------------------|--------------|
| Penta erythritol                                 | 40 -70%       | 115-77-5    | 10 mg/m3   | 5 mg/m3    | 10 g /kg (oral/rat) | NA           |
| Hexamethyldisilazane,<br>Silica reaction product | 3-7           | 68909-20-6  | 10 mg/m3   | 6 mg/m3    | 5 mg/kg             | NA           |
| Aluminum oxide                                   | 3-7           | 1344-28-1   | 10 mg/m3   | 5 mg/m3    | NA                  | NA           |

**3. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**  
**Nuisance dust**

**POTENTIAL HEALTH EFFECTS**

Skin Contact : None  
 Eyes : Gritty material may scratch eye ball  
 Inhalation : May block 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 if dizzy or nauseated  
 Ingestion : None

NOTE: In all severe cases, contact physician immediately.

**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**

Mop up or Sweep up (For disposal see Section 13)

MSDS/ZP-4B/02 dated 04/2020

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 Telephone : +91 - 124 - 4284381, Facsimile : +91 - 124 - 4284389, E-mail : [infoindia@itw.com](mailto:infoindia@itw.com)

Corporate Identity Number (CIN) : U32301HR1979PTC038643

## 7. HANDLING AND STORAGE

Avoid breathing dust. Keep dry

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Controls : None  
Personal protection : Wear respirator with filter if sprayed in enclosed, unventilated space.

## 9. PHYSICAL PROPERTIES

|                              |           |                  |                             |
|------------------------------|-----------|------------------|-----------------------------|
| Initial boiling point (bulk) | : None    | Vapor pressure   | : None                      |
| Percent volatile             | : None    | Vapor density    | : Not applicable            |
| Density/sp. gravity          | : 0.2     | Evaporation rate | : None                      |
| Water solubility             | : 4%      | Appearance       | : Fluffy white dusty powder |
| pH                           | : Neutral | Odor             | : None                      |

## 10. STABILITY AND REACTIVITY

Stability : Stable  
Incompatibility : Acids  
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 : 5mg/cubic meter 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 material.

## 12. ECOLOGICAL INFORMATION

No data is available on ZP-4 B.

## 13. DISPOSAL

All Disposal practices must be in compliance with all local laws and regulations. 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 , IMDG , IATA:

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 : Aluminium oxide  
California Proposition 65 : Contains nothing on this list  
WHMIS Class (Canada) : 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

Revision Statement : Updated the address