

# SAFETY DATA SHEET

Revision: 2.0 Date: 08.07.2015

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH),  
1272/2008 (CLP) & 2015/830

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## 1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**  
Product Name PBX Cement  
Chemical Name Mixture  
CAS No. Mixture  
EINECS No. Mixture  
REACH Registration No. None assigned.
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Identified Use(s) PC14 Metal surface treatment products, including galvanic and electroplating products  
Uses Advised Against None known.
- 1.3 Details of the supplier of the safety data sheet**  
Company Identification VISHAY MEASUREMENTS GROUP UK LTD  
Stroudley Road  
Basingstoke  
Hampshire  
RG24 8FW  
United Kingdom  
Telephone +44 (0) 1256 462131  
Fax +44 (0) 1256 471441  
E-Mail (competent person) mm.uk@vishaypg.com
- 1.4 Emergency telephone number** (00-1) 703-527-3887  
CHEMTREC

## 2. SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**  
**2.1.1 Regulation (EC) No. 1272/2008 (CLP)** STOT RE 1; H372
- 2.2 Label elements**  
Product Name According to Regulation (EC) No. 1272/2008 (CLP)  
PBX Cement
- Hazard Pictogram(s) 
- Signal Word(s) Danger
- Contains: Silicon Dioxide
- Hazard Statement(s) H372: Causes damage to organs through prolonged or repeated exposure:  
Lungs.
- Precautionary Statement(s) P260: Do not breathe dust.  
P270: Do not eat, drink or smoke when using this product.  
P264: Wash (hands and exposed skin) thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P314: Get medical advice/attention if you feel unwell.
- Additional Information** None.
- 2.3 Other hazards** None.

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## 3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

| Chemical identity of the substance | %W/W    | CAS No.    | EC No.    | REACH Registration No. | Hazard Statement(s) |
|------------------------------------|---------|------------|-----------|------------------------|---------------------|
| Silicon Dioxide                    | 30 - 50 | 14808-60-7 | 238-878-4 | None assigned          | STOT RE 1; H372     |
| Aluminium oxide                    | 5 - 15  | 1344-28-1  | 215-691-6 | None assigned          | Not classified      |
| Chromium oxide                     | < 5     | 1308-38-9  | 215-160-9 | None assigned          | Not classified      |

H372: Causes damage to organs through prolonged or repeated exposure.

## 4. SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

Inhalation

IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin Contact

Brush off loose particles from skin. Flush skin with large amounts of water. Contaminated clothing should be thoroughly cleaned. If symptoms develop, obtain medical attention.

Eye Contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if eye irritation develops or persists.

Ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If symptoms develop, obtain medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed

Causes damage to organs through prolonged or repeated exposure: Lungs. Mechanical irritation of the respiratory tract. Mechanical irritation of the skin and eyes.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## 5. SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable Extinguishing media

Non-flammable. As appropriate for surrounding fire. Extinguish preferably with dry chemical, sand or carbon dioxide.

Unsuitable extinguishing media

Do not use water jet. Direct water jet may spread the fire.

### 5.2 Special hazards arising from the substance or mixture

May decompose in a fire giving off toxic fumes.

### 5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

## 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Stop leak if safe to do so. Do not breathe dust. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. See Section: 8.

### 6.2 Environmental precautions

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.

### 6.3 Methods and material for containment and cleaning up

Sweep up spilled substance but avoid making dust. Dampening with water can reduce dust. Transfer to a container for disposal. Flush spill area with copious amounts of water.

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6.4 Reference to other sections See Section: 8, 13

## 7. SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Ensure adequate ventilation. Do not breathe dust. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work.
- 7.2 Conditions for safe storage, including any incompatibilities**  
Storage temperature: Ambient.  
Storage life: Stable under normal conditions.  
Incompatible materials: Keep away from: Acids, Alkalis and Strong oxidising agents.
- 7.3 Specific end use(s)** PC14 Metal surface treatment products, including galvanic and electroplating products. See Section: 1.2

## 8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**  
**8.1.1 Occupational Exposure Limits**

| SUBSTANCE                  | CAS No.    | LTEL (8 hr TWA ppm) | LTEL (8 hr TWA mg/m <sup>3</sup> ) | STEL (ppm) | STEL (mg/m <sup>3</sup> ) | Note: |
|----------------------------|------------|---------------------|------------------------------------|------------|---------------------------|-------|
| Quartz (SiO <sub>2</sub> ) | 14808-60-7 | -                   | 0.1 (1)                            | -          | -                         | WEL   |
| Aluminium oxide            | 1344-28-1  | -                   | 10 (2)<br>4 (3)                    | -          | -                         | WEL   |

Note: WEL: Workplace Exposure Limit (UK HSE EH40)

- (1): Silica, respirable crystalline.  
(2): Inhalable aerosol  
(3): Respirable aerosol

- 8.1.2 Biological limit value** Not established.
- 8.1.3 PNECs and DNELs** Not established.
- 8.2 Exposure controls**  
**8.2.1 Appropriate engineering controls** Ensure adequate ventilation or use appropriate containment. Atmospheric levels should be controlled in compliance with the occupational exposure limit. Have available eyewash bottle with clean water.
- 8.2.2 Individual protection measures, such as personal protective equipment (PPE)** General hygiene measures for the handling of chemicals are applicable. Do not breathe dust. Avoid contact with skin, eyes or clothing. Wash hands before breaks and after work. Keep work clothes separately. Contaminated clothing should be thoroughly cleaned. Do not eat, drink or smoke at the work place.

Eye/ face protection



Wear eye protection with side protection (EN166).

Skin protection



Hand protection: Wear impervious gloves (EN374). Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

Body protection: Wear dust-resistant protective clothing.

Respiratory protection

Do not use in areas without adequate ventilation. In case of inadequate ventilation wear respiratory protection. An approved dust mask should be worn if dust is generated during processing or handling.

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Thermal hazards

8.2.3 Environmental Exposure Controls

Not applicable.

Avoid release to the environment.

## 9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|  |                          |
|--|--------------------------|
| Appearance                                   | Green Odourless Powder.  |
| Odour  | No odour                 |
| Odour threshold                              | Not available.           |
| pH   | Not established.         |
| Melting point/freezing point                 | Not available.           |
| Initial boiling point and boiling range      | Not available.           |
| Flash point                                  | Not applicable.          |
| Evaporation rate                             | Not applicable.          |
| Flammability (solid, gas)                    | Non-flammable.           |
| Upper/lower flammability or explosive limits | Not available.           |
| Vapour pressure                              | Not applicable.          |
| Vapour density                               | Not applicable.          |
| Relative density                             | 4.0 (H <sub>2</sub> O=1) |
| Solubility(ies)                              | Negligible.              |
| Partition coefficient: n-octanol/water       | Not available.           |
| Auto-ignition temperature                    | Not available.           |
| Decomposition Temperature                    | Not available.           |
| Viscosity                                    | Not available.           |
| Explosive properties                         | Not explosive.           |
| Oxidising properties                         | Not oxidising.           |

### 9.2 Other information

None.

## 10. SECTION 10: STABILITY AND REACTIVITY

|   |   |
|---|---|
| 10.1 Stability and reactivity           | Stable under normal conditions.   |
| 10.2 Chemical stability                 | Stable under normal conditions.   |
| 10.3 Possibility of hazardous reactions | Stable under normal conditions.   |
| 10.4 Conditions to avoid                | Keep away from heat and direct sunlight. Keep at a temperature not exceeding (°C): 48.9°C |
| 10.5 Incompatible materials             | Keep away from: Acids, Alkalis and Strong oxidising agents.                               |
| 10.6 Hazardous decomposition product(s) | May decompose in a fire giving off toxic fumes.   |

## 11. SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects (Substances in preparations / mixtures)

#### Acute toxicity

Ingestion

Based upon the available data, the classification criteria are not met.  
Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day.

Inhalation

Based upon the available data, the classification criteria are not met.  
Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 5 mg/l.

Skin Contact

Based upon the available data, the classification criteria are not met.  
Acute Toxicity Estimate Mixture Calculation: Estimated LC50 > 2000 mg/kg bw/day.

**Skin corrosion/irritation**

Based upon the available data, the classification criteria are not met.

**Serious eye damage/irritation**

Based upon the available data, the classification criteria are not met.

**Respiratory or skin sensitization**

Based upon the available data, the classification criteria are not met.

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|      |                                 |   |
|------|---------------------------------|---|
|      | <b>Germ cell mutagenicity</b>   | Based upon the available data, the classification criteria are not met.           |
|      | <b>Carcinogenicity</b>          | Based upon the available data, the classification criteria are not met.           |
|      | <b>Reproductive toxicity</b>    | Based upon the available data, the classification criteria are not met.           |
|      | <b>STOT - single exposure</b>   | Based upon the available data, the classification criteria are not met.           |
|      | <b>STOT - repeated exposure</b> | STOT RE 1: Causes damage to organs through prolonged or repeated exposure: Lungs. |
|      | <b>Aspiration hazard</b>        | Based upon the available data, the classification criteria are not met.           |
| 11.2 | <b>Other information</b>        | None.   |

## 12. SECTION 12: ECOLOGICAL INFORMATION

|      |   |  |
|------|---|--|
| 12.1 | <b>Toxicity</b>                           | Based upon the available data, the classification criteria are not met.<br>Estimated Mixture LC50 >100 mg/l (Fish) |
| 12.2 | <b>Persistence and degradability</b>      | Not persistent.  |
| 12.3 | <b>Bioaccumulative potential</b>          | The product has low potential for bioaccumulation.   |
| 12.4 | <b>Mobility in soil</b>                   | No data for the mixture as a whole.  |
| 12.5 | <b>Results of PBT and vPvB assessment</b> | Not classified as PBT or vPvB.   |
| 12.6 | <b>Other adverse effects</b>              | None known.  |

## 13. SECTION 13: DISPOSAL CONSIDERATIONS

|      |                                |   |
|------|--------------------------------|---|
| 13.1 | <b>Waste treatment methods</b> | Send after pre-treatment to an appropriate hazardous waste incinerator facility according to legislation. |
| 13.2 | <b>Additional Information</b>  | Dispose of contents in accordance with local, state or national legislation.                              |

## 14. SECTION 14: TRANSPORT INFORMATION

|      |   |   |
|------|---|---|
|      |   | <b>ADR/RID / IMDG / IATA</b>  |
| 14.1 | <b>UN number</b>  | UN 3316   |
| 14.2 | <b>UN Proper Shipping Name</b>  | CHEMICAL KIT (When shipped with PBX Solvent)                              |
| 14.3 | <b>Transport hazard class(es)</b>   | 9   |
| 14.4 | <b>Packing group</b>  | II  |
| 14.5 | <b>Environmental hazards</b>  | Not classified as a Marine Pollutant/ Environmentally hazardous substance |
| 14.6 | <b>Special precautions for user</b>   | See Section: 2  |
| 14.7 | <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not applicable.   |
| 14.8 | <b>Additional Information</b>   | None.   |

## 15. SECTION 15: REGULATORY INFORMATION

|        |   |   |
|--------|---|---|
| 15.1   | <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b> |   |
| 15.1.1 | <b>EU regulations</b><br>SVHCs  | None  |
| 15.1.2 | <b>National regulations</b><br>Wassergefährdungsklasse (Germany)                                      | Water hazard class: Non-hazardous ingredients |
| 15.2   | <b>Chemical Safety Assessment</b>   | Not available.                                |

## 16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

**References:** Existing Safety Data Sheet (SDS), Existing ECHA registration(s) for Aluminium oxide (CAS# 14808-60-7) and Chromium oxide (CAS# 1308-38-9), and the Classification and Labelling Inventory for Silicon Dioxide (CAS# 14808-60-7).

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| Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP) | Classification Procedure |
|---|--------------------------|
| STOT RE 1; H372   | Threshold Calculation    |

## LEGEND

|      |  |
|------|--|
| LTEL | Long Term Exposure Limit                   |
| STEL | Short Term Exposure Limit                  |
| DNEL | Derived No Effect Level                    |
| PNEC | Predicted No Effect Concentration          |
| PBT  | PBT: Persistent, Bioaccumulative and Toxic |
| vPvB | very Persistent and very Bioaccumulative   |

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

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## Annex to the extended Safety Data Sheet (eSDS)

No information available.



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