



MATERIAL SAFETY DATA SHEET



SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: PBX Cement

April 13, 2010

Vishay Measurements Group, Inc.
Post Office Box 27777
Raleigh, NC 27611

919-365-3800

CHEMTREC 1-800-424-9300 (U.S.)
703-527-3887 (Outside U.S.)

NOTE: CHEMTREC numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

CAS NUMBER	CHEMICAL IDENTITY	%
14808-60-7	Silicon Dioxide	30-50
1344-28-1	Aluminum Oxide	5-15
1308-38-9	Chromium Oxide	<5

Balance is non-hazardous.

SECTION 3: HEALTH HAZARD DATA

Routes of Entry:

Inhalation: Yes **Skin:** Yes **Ingestion:** Accidental

Health Hazards (Acute and Chronic): Irritating to eyes and respiratory system. May cause irritation or sensitization by skin contact.

Carcinogenicity: NTP: See Note
 IARC Monographs: See Note
 OSHA Regulated: See Note

NOTE: Contains crystalline silica which is classified as a probable human carcinogen and can cause silicosis.

Signs and Symptoms of Exposure:

INHALATION: Irritation may result from inhalation of airborne product. Inhalation of crystalline silica may cause silicosis.

EYE CONTACT: May cause irritation.

SKIN CONTACT: Prolonged or repeated skin contact may cause irritation or sensitization.

INGESTION: May be harmful if swallowed.

Conditions Generally Aggravated by Exposure: None known.

NOTE: The primary health hazard associated with this product involves inhalation of crystalline silica dusts. Exposure to silica residues would most likely occur if dusts are generated when mixing the PBX Cement.

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove victim to fresh air. Obtain medical attention.

EYE CONTACT: Flush with water for 15 minutes. If irritation persists, get medical attention.

SKIN CONTACT: Immediately flush skin with water, remove contaminated clothing and wash before reuse. Severe skin contact may require medical attention.

INGESTION: Rinse mouth thoroughly with water. Do NOT induce vomiting. Obtain medical attention.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): None.

Flammable limits: LEL: Unknown UEL: Unknown

Extinguishing Media: Coating will not burn or support combustion. Carbon dioxide, sand, dry chemical.

Special Firefighting Procedures: None listed.

Unusual Fire and Explosion Hazards: Quartz (crystalline silica) can be converted to tridimite at 870°C and crystallite at 1470°C. Both of these forms are more fibrogenic than quartz.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: Scoop up into container. Avoid generating dust. Flush spill area with excess water.

SECTION 7: EXPOSURE CONTROLS -- PERSONAL PROTECTION

Respiratory Protection: Use NIOSH/MSHA approved respirator if dust is being generated.

Ventilation: Mix PBX in an area with adequate ventilation.

Protective Gloves: Wear suitable gloves to prevent skin contact.

Eye Protection: Wear approved safety glasses or goggles.

Other Protective Clothing or Equipment: As needed to prevent skin contact.

Work / Hygienic Practices: Wash hands thoroughly after use and before eating, drinking or smoking.

SECTION 8: HANDLING AND STORAGE

Precautions to be taken in handling and storing: Use with adequate ventilation. Do not get on skin or clothing.

Other Precautions: Store inside original container.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Unknown
Vapor Pressure (mmHg):	NA
Vapor Density (Air = 1):	NA
Specific Gravity (H₂O = 1):	4.0
Melting Point:	Unknown
Evaporation Rate (BuAc = 1):	NA
Volatile Organic Compounds:	None
Solubility in Water:	Negligible

Appearance and Odor: Green odorless powder.

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: Stable.

Conditions to Avoid: None known.

Incompatibility (Materials to Avoid): Avoid contact with strong acids.

Hazardous Decomposition or By-products: Will not occur.

Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION
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Silicon Dioxide

OSHA PEL:	10 mg/m ³ TWA
ACGIH TLV:	0.1 mg/m ³ TWA
OTHER:	Unknown

Aluminum Oxide

OSHA PEL:	15 mg/m ³
ACGIH TLV:	10 mg/m ³
OTHER:	Unknown

Chromium Oxide

OSHA PEL:	0.5 mg/m ³
ACGIH TLV:	0.5 mg/m ³
OTHER:	None known

SECTION 12: DISPOSAL CONSIDERATIONS
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Waste Disposal Method: Dispose of in accordance with local, state, and federal environmental regulations.

SECTION 13: TRANSPORTATION INFORMATION

SHIPPING NAME	CLASS	PACKING GROUP	UN NUMBER
Chemical Kit (When shipped with PBX Solvent)	9	II	UN 3316

SECTION 14: REGULATORY INFORMATION

SECTION 313 SUPPLIER NOTIFICATION:

This product contains a toxic chemical or chemicals (as listed below) subject to the reporting requirements of Section 313 Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.

CAS NUMBER	CHEMICAL NAME	% BY WEIGHT
1308-38-9	Chromium Oxide	<5

TSCA NOTIFICATION:

All components of this product are listed in the Toxic Substance Control Act Chemical Substance Inventory (TSCA).

SECTION 15: OTHER INFORMATION

PBX Cement MSDS (Continued)

To the best of our knowledge, the information provided above meets the requirements of the United States Occupational Safety and Health Act and regulations established under 29 CFR 1910.1200 (g)(2)(c)(1)-(4) for a mixture of hazardous chemicals which has not been tested as a whole. The data provided on this Material Safety Data Sheet is from manufacturers of the original components. Micro-Measurements specifically disclaims any and all form of liability and/or responsibility for the application of this product.