



PRODUCTS COMPANY

P.O. Box 1300 TRENTON, NJ 08607

TEL. (609) 394-0150 FAX (609)989-4847

## Material Safety Data Sheet

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**Date:** 4/21/10  
**Product Name:** X-PANDO PIPE JOINT COMPOUND SPECIAL NO. 2  
**Product Description:** Sealing joints of cement lined pipes to be welded.

### 1. Identification

X-Pando Products Company  
500 Southard Street  
Trenton, NJ 08638  
U.S.A

**For Product Information/Emergency Phone Number:**  
609-394-0150

**Chemical Name or Synonym:**  
N/A

### 2. Hazards Identification

#### A. Emergency Overview:

**Information Pertaining To Particular Dangers For Man And Environment:**  
NOT Hazardous according to criteria of NOHSC/ASCC

**Physical Appearance:**  
Gray to black powder with no odor.

#### B. Potential Health Effects:

**Acute Eye:**  
May cause mechanical irritation if exposed to large amounts of the dust.

**Acute Skin:**  
This product may cause skin irritation.

**Acute Inhalation:**  
May cause irritation to respiratory tract and lung damage if exposure is repeated or prolonged. Although unlikely, inhalation of fumes from heated material may cause metal fume fever, a flu-like illness characterized by delayed symptoms of cough, muscle pains chills and nausea.

**Acute ingestion:**  
This product may cause gastrointestinal harm and nausea if it is swallowed.

**Chronic Exposure:**  
Prolonged or repeated skin contact may cause burns. Prolonged inhalation of dust may lead to lung damage (pneumoconiosis). Symptoms include coughing, difficulty breathing, and the



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production of black sputum. Symptoms may be delayed until after years of exposure. Dust generated by use of this product contains crystalline silica which is listed by the IARC as a Group 2A carcinogen and by the NTP as a substance which may reasonably be anticipated to be a carcinogen.

**Aggravation of Pre-existing Conditions:**

Individuals with pulmonary and/or respiratory disease, including, but not limited to, asthma and bronchitis, or subject to eye irritation should be precluded from exposure.

### 3. Composition/Information on Ingredients

| Component            | CAS#       | %     |
|----------------------|------------|-------|
| Magnesium Oxide      | 1309-48-4  | 35-45 |
| Magnesium Chloride   | 7791-18-6  | 20-25 |
| Graphite (synthetic) | 7782-42-5  | 8-12  |
| Crystalline Silica   | 14808-60-7 | 10-15 |
| Strontium Sulfate    | 7759-02-6  | 1-5   |
| Starch Gum           | 9004-53-9  | 1-5   |
| Magnesium Sulfate    | 7487-88-9  | 1-5   |

### 4. First Aid Measures

**First Aid Measures for Accidental:**

**Eye Exposure:**

Irrigate eyes with large amounts of water for at least 15 minutes, while holding the eyelid(s) open. Seek medical attention if irritation persists.

**Skin Exposure:**

Wash the affected area with soap and water. Seek medical attention if irritation persists.

**Inhalation:**

Move victim to fresh air and treat symptomatically.

**Ingestion:**

Contact local poison control center or physician IMMEDIATELY.

### 5. Fire Fighting Measures

**Fire Hazard Data:**

Autoignition: N/A



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**Flash Point:** N/A

**Flammability Limits (vol/vol%):** Lower: N/A Upper: N/A

**Extinguishing Media:**  
Use extinguishing media appropriate for surrounding fire.

**Special Fire Fighting Procedures:**  
Use self contained breathing apparatus with full face mask.

**Unusual Fire and Explosion Hazards:**  
Fire produces oxides of magnesium, calcium and carbon.

#### 6. Accidental Release Measures

**Cleanup and Disposal of Spill:**  
Vacuum or scoop spilled material and place in closed containers for disposal. Avoid dust generation. Dispose of waste in accordance with local, state and federal regulations.

#### 7. Handling and Storage

**Handling/Storage:**  
Avoid dust generation and wear proper personal protection equipment as identified in Section 8. Store in a closed container in dry area.

#### 8. Exposure Controls / Personal Protection

**Exposure Guidelines:**

| Component            | ACGIH                   | OSHA-PELs             |
|----------------------|-------------------------|-----------------------|
| Magnesium Oxide      | 10 mg/m <sup>3</sup>    | 10 mg/m <sup>3</sup>  |
| Magnesium Chloride   | None                    | None                  |
| Graphite (synthetic) | 2 mg/m <sup>3</sup>     | 2.5 mg/m <sup>3</sup> |
| Crystalline Silica   | 0.025 mg/m <sup>3</sup> | 0.1 mg/m <sup>3</sup> |
| Strontium Sulfate    | None                    | None                  |
| Starch Gum           | None                    | None                  |
| Magnesium Sulfate    | ND                      | ND                    |

**Engineering Controls:**  
Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the MSDS.

**Respiratory Protection:**



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Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or EN approved respirator when necessary.

### Eye / Face Protection:

If eye contact while using product may be anticipated, wear appropriate safety glasses with side shields or chemical goggles as described by OSHA's eye and face protection regulations in 29CFR 1910.133 or European Standard EN166.

### Skin Protection:

Wear chemical resistant, impervious gloves for routine industrial use. Use body protection appropriate for task. An apron or other impermeable body protection is suggested. Full-body chemical protective clothing is recommended for emergency response procedures.

## 9. Physical and Chemical Properties

**Physical Appearance:** Gray to Black powder

**Odor:** None

**pH:** NA

**Specific Gravity/Density:** 2.56

**Water Solubility:** Appreciable

**Melting Point:** N/A

**Freezing Point:** ND

**Boiling Point:** N/A

**Vapor Pressure:** ND

**Percent Volatiles by Volume:** ND

**Evaporation Rate:** ND

**Viscosity:** ND

**Flash Point:** N/A

**Explosion Limits:** Lower: N/A

Upper: N/A

**Autoignition Temp:** N/A

## 10. Stability and Reactivity

### Chemical Stability:

Stable

### Conditions to Avoid:

Dust generation

### Materials / Chemicals to Be Avoided:

Avoid contact with strong acids and strong bases.

### Hazardous Decomposition Products:

Hazardous decomposition products such as hydrogen chloride, chlorine and magnesium oxide fumes may develop with exposure to high temperatures.



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**Hazardous Polymerization:**  
Will not occur.

### 11. Toxicological Information

**Acute Effects**

For Magnesium Oxide: LD50 Mouse: 810 mg/kg

For Magnesium Chloride: LD50 Rat: 8100 mg/kg

For Crystalline Silica: Oral LD50 Rat: 500 mg/kg

**Chronic Effects**

Carcinogenicity: **Quartz (14808-60-7)**

ACGIH: A2 - Suspected Human Carcinogen

NIOSH: potential occupational carcinogen

NTP: Known Human Carcinogen (Select Carcinogen)

IARC: Monograph 68 [1997] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources) (Group 1 (carcinogenic to humans))

Mutagenicity: No Data

Reproductive Effects: No Data

Developmental Effects: No Data

### 12. Ecological Information

**Ecotoxicological Information:**

Not Determined

### 13. Disposal Considerations

**Waste Disposal Method:**

Discard any product, residue, disposable container or liner in full compliance with national regulations.

**Container Handling and Disposal:**

Dispose of container and unused contents in accordance with national regulations.

### 14. Transportation Information

**Shipping Name:**

|                                     |                             |               |
|-------------------------------------|-----------------------------|---------------|
| <b>ADR/RID/IMO/ICAO<br/>/US DOT</b> | <b>Proper Shipping Name</b> | Not Regulated |
|                                     | <b>Hazard Class</b>         | Not Regulated |
|                                     | <b>ID Number</b>            | Not Regulated |
|                                     | <b>Packaging Group</b>      | Not Regulated |



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### 15. Regulatory Information

#### U.S. Federal Regulations:

##### **SARA Title III Hazard Classes:**

|                        |    |
|------------------------|----|
| Fire Hazard:           | No |
| Reactive Hazard:       | No |
| Release of Pressure:   | No |
| Acute Health Hazard:   | No |
| Chronic Health Hazard: | No |

##### **TSCA**

All components of this product are on the TSCA inventory or are not required to be listed.

#### **Other Regulations:**

None

### 16. Other Information

#### **National Fire Protection Association NFPA(R) and Hazardous Materials Identification System (HMIS) Hazard Ratings –:**

|                |   |
|----------------|---|
| Health Hazard: | 1 |
| Flammability:  | 0 |
| Reactivity:    | 0 |

#### **Key Legend Information:**

N/A – Not Applicable

ND – Not Determined

ACGIH – American Conference of Governmental Industrial Hygienists

OSHA – Occupational Safety and Health Administration

TLV – Threshold Limit Value

PEL – Permissible Exposure Limit

TWA – Time Weighted Average

STEL – Short Term Exposure Limit

NTP – National Toxicology Program

IARC – International Agency for Research on Cancer

RTECS - Registry of Toxic Effects of Chemical Substances