X-PANDO PRODUCTS COMPANY
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Material Safety Data Sheet

MSDS Date: 4/21/10
Product Name: X-PANDOTITE
Manufacturer: X-Pando Products Company

1. Product and Company Description

X-Pando Products Company
500 Southard Street
Trenton, NJ 08638

For Product Emergency/Information:
609-394-0150

Product Use:
Machine anchoring and crack patching cement.

2. Hazards Identification

Emergency Overview
Appearance/Odor: White Bluish powder with no odor.

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 production of black sputum. Symptoms may be delayed until after years of exposure.

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. Hazardous Chemical Composition

Component	CAS#	%
Magnesium Oxide	1309-48-4	10-35
Magnesium Chloride	7791-18-6	15-30
Calcium Carbonate	1317-65-3	25-50
Starch Gum	9004-53-9	0-5
Magnesium Sulfate	7487-88-9	1-5
Titanium Dioxide	13463-67-7	0-5

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

Flash Point: N/A

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

Extinguishing Media:
Use medium suitable for surrounding material.

Special Fire Fighting Procedures:
Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

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^3	10 mg/m^3
Magnesium Chloride	None	None
Calcium Carbonate	None	15 mg/m^3 5 mg/m^3 respirable dust
Starch Gum	None	None
Magnesium Sulfate	ND	ND
Titanium Dioxide	10 mg/m^3	10 mg/m^3

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

Respiratory Protection:
If respiratory protection is needed, use only protection authorized in the U.S. Federal OSHA Standard (29 CFR 1910.134), applicable U.S. State regulations, or the Canadian CSA Standard Z94.4-93 and applicable standards of Canadian Provinces.

Eye / Face Protection:
Chemical splash goggles or safety glasses. Emergency eye wash stations and showers should be available within the work area.

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: White Bluish powder
Odor: None
pH: NA
Specific Gravity/Density: 2.63
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.

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 Titanium Dioxide: LD50 Rat: >10000 mg/kg

Chronic Effects
Carcinogenicity: Not identified as a carcinogen by NTP, IARC or OSHA
Mutagenicity: No Data
Reproductive Effects: No Data
Developmental Effects: No Data

12. Ecological Information

Environmental Fate:
No information found

Environmental Toxicity:
No information found

13. Disposal Considerations

Waste Disposal Method:
Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transportation Information

US Department of Transportation Shipping Name:

US Department of Transportation	**Proper Shipping Name**	Not regulated
	Hazard Class	Not regulated
	ID Number	Not regulated
	Packing Group	Not regulated

15. Regulatory Information

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 exempt from TSCA Inventory requirements

U.S. State Regulations:

California Prop 65 List: None

Canada Regulations:

Classification: D2A

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

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
IDLH – Immediately Dangerous to Life and Health
PEL – Permissible Exposure Limit
TWA – Time Weighted Average
STEL – Short Term Exposure Limit
NTP – National Toxicology Program
IARC – International Agency for Research on Cancer