

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name. : X-PANDO PIPE JOINT COMPOUND SPECIAL NO. 2

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Sealing joints of cement lined pipes to be welded.

1.3. Details of the supplier of the safety data sheet

X-Pando Products Company
204 Stokes Avenue
Ewing, NJ 08638

1.4. Emergency telephone number

Emergency number : 609-394-0150

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Carc. 1A H350
STOT SE 3 H335
STOT RE 2 H373

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H335 - May cause respiratory irritation
H350 - May cause cancer
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe dust/fume/gas/mist/vapours/spray
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P308+P313 - IF exposed or concerned: Get medical advice/attention
P312 - Call a POISON CENTER/doctor/.../if you feel unwell
P314 - Get medical advice and attention if you feel unwell
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container to ...

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Magnesium oxide	(CAS No.) 1309-48-4	35 - 45	Not classified
Magnesium chloride, hexahydrate	(CAS No.) 7791-18-6	20 - 25	Not classified
Quartz	(CAS No.) 14808-60-7	10 - 15	Acute Tox. 4 (Oral), H302 Carc. 1A, H350
Graphite	(CAS No.) 7782-42-5	8 - 12	Not classified
Dextrin	(CAS No.) 9004-53-9	1 - 5	Not classified

X-PANDO PIPE JOINT COMPOUND SPECIAL NO. 2

Safety Data Sheet

Name	Product identifier	%	GHS-US classification
Sulfuric acid, strontium salt (1:1)	(CAS No.) 7759-02-6	1 - 5	Not classified
Magnesium sulfate	(CAS No.) 7487-88-9	1 - 5	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Move victim to fresh air and treat symptomatically.
First-aid measures after skin contact	: Wash the affected area with soap and water. Seek medical attention if irritation persists.
First-aid measures after eye contact	: Irrigate eyes with large amounts of water for at least 15 minutes, while holding the eyelid(s) open. Seek medical attention if irritation persists.
First-aid measures after ingestion	: Contact local poison control center or physician IMMEDIATELY.

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

Symptoms/injuries after 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.
Symptoms/injuries after skin contact	: This product may cause skin irritation.
Symptoms/injuries after eye contact	: May cause mechanical irritation if exposed to large amounts of the dust.
Symptoms/injuries after ingestion	: This product may cause gastrointestinal harm and nausea if it is swallowed.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: None.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Fire produces oxides of magnesium, calcium and carbon.
Explosion hazard	: None known.

5.3. Advice for firefighters

Protection during firefighting	: 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.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Avoid creating or spreading dust.
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6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

None.

6.3. Methods and material for containment and cleaning up

For containment	: If possible, stop flow of product.
Methods for cleaning up	: 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.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Avoid generating dust.
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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a closed container in dry area.
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7.3. Specific end use(s)

Sealing joints of cement lined pipes to be welded.

X-PANDO PIPE JOINT COMPOUND SPECIAL NO. 2

Safety Data Sheet

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Magnesium oxide (1309-48-4)		
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³

Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m ³

Graphite (7782-42-5)		
USA ACGIH	ACGIH TWA (mg/m ³)	2 mg/m ³ (all forms except graphite fibers)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³ (synthetic)

8.2. Exposure controls

Appropriate engineering controls	: Local exhaust and general ventilation must be adequate to meet exposure standards.
Hand protection	: Wear chemical resistant, impervious gloves for routine industrial use. Use body protection appropriate for task.
Eye protection	: Chemical splash goggles or safety glasses. Emergency eye wash stations and showers should be available within the work area.
Skin and body protection	: An apron or other impermeable body protection is suggested. Full-body chemical protective clothing is recommended for emergency response procedures.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Colour	: Gray to black
Odour	: Odorless
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 2.63
Solubility	: Water: Appreciable
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

X-PANDO PIPE JOINT COMPOUND SPECIAL NO. 2

Safety Data Sheet

10.2. Chemical stability

The product is stable at normal handling- and storage conditions.

10.3. Possibility of hazardous reactions

Will not occur.

10.4. Conditions to avoid

Dust generation.

10.5. Incompatible materials

Avoid contact with strong acids and strong bases.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Magnesium chloride, hexahydrate (7791-18-6)	
LD50 oral rat	8100 mg/kg
ATE (oral)	8100 mg/kg

Quartz (14808-60-7)	
LD50 oral rat	500 mg/kg
ATE (oral)	500 mg/kg

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : May cause cancer.

Quartz (14808-60-7)	
IARC group	1
National Toxicity Program (NTP) Status	2

Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : May cause respiratory irritation.
Specific target organ toxicity (repeated exposure) : May cause damage to organs through prolonged or repeated 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.
Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Magnesium sulfate (7487-88-9)	
LC50 fishes 1	19000 mg/l (Exposure time: 24 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	1700 mg/l (Exposure time: 24 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	2700 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)
LC50 fish 2	2610 - 3080 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	266.4 - 417.3 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

X-PANDO PIPE JOINT COMPOUND SPECIAL NO. 2

Safety Data Sheet

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

In accordance with DOT / ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Magnesium oxide (1309-48-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Quartz (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Graphite (7782-42-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Dextrin (9004-53-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Sulfuric acid, strontium salt (1:1) (7759-02-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Magnesium sulfate (7487-88-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

X-PANDO PIPE JOINT COMPOUND SPECIAL NO. 2

WHMIS Classification Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

Magnesium chloride, hexahydrate (7791-18-6)

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

Magnesium oxide (1309-48-4)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

Quartz (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

Graphite (7782-42-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

Dextrin (9004-53-9)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

Sulfuric acid, strontium salt (1:1) (7759-02-6)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Magnesium sulfate (7487-88-9)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

15.2. US State regulations

X-PANDO PIPE JOINT COMPOUND SPECIAL NO. 2

Safety Data Sheet

Quartz (14808-60-7)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes				

Magnesium oxide (1309-48-4)
U.S. - Massachusetts - Right To Know List U.S. - Minnesota - Hazardous Substance List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

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Graphite (7782-42-5)
U.S. - Massachusetts - Right To Know List U.S. - Minnesota - Hazardous Substance List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Carc. 1A	Carcinogenicity Category 1A
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H335	May cause respiratory irritation
H350	May cause cancer
H373	May cause damage to organs through prolonged or repeated exposure

HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability : 0 Minimal Hazard
Physical : 0 Minimal Hazard

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.