



# MATERIAL SAFETY DATA SHEET

*This Material Safety Data Sheet meets or exceeds the requirements of the Canadian Controlled Product Regulations (WHMIS)*

## 1. Product and Supplier Identification

**Product:** Target Glass Block Mortar- White

**Product Use:** Concrete Related Products

**Supplier and Manufacturer:** Target Products Ltd,  
1080 Bradner Road  
Abbotsford, BC  
V4X 1H8  
Telephone: 1.604.856.7976

24-Hour Emergency Response Telephone for Transport Emergencies ONLY: +1 (613) 996-6666

## 2. Composition

Product	Ingredients		
	Calcium Oxide	Calcium Silicate	Fine Dolomitic Sand
	% (w/w)	% (w/w)	% (w/w)
White Glass Block Mortar	0.1 – 0.3	12 - 16	70

Component	Exposure Limits/ACGIH <sup>1</sup>	LD <sub>50</sub>	LC <sub>50</sub>
Calcium Oxide CAS No 1305-78-8	TLV-TWA: 2 mg/m <sup>3</sup> , irritation	Not established	Not established
Calcium silicate CAS No 1344-95-2	TLV-TWA: 10 mg/m <sup>3</sup> , irritation	Not established	Not established
Fine Dolomitic Sand CAS No 16389-88-1	TLV-TWA: 0.1 mg/m <sup>3</sup> for fine dolomite	Not established	Not established

<sup>1</sup> American Conference of Governmental Industrial Hygienists (ACGIH). Exposure limits may vary from time to time and from one jurisdiction to another. Check with local regulatory agency for the exposure limits in your area

## 3. Hazards Identification

**Routes of Entry:**

Skin Absorption: No  
 Skin Contact: Yes  
 Eye Contact: Yes  
 Ingestion: Yes  
 Inhalation: Yes

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### **Emergency Overview:**

Calcium oxide is corrosive to eyes and skin and although these products contain small amounts of this chemical, care should be taken to limit skin exposure and prevent eye contact. Dust created from mishandling this product will cause irritation of the upper respiratory tract if inhaled.

### **Acute Health Effects:**

#### **Inhalation:**

Inhalation of cement dust will cause irritation to the upper respiratory tract. The dust that is created from improper handling procedures is mainly calcium oxide which can cause a minor burning sensation to the nostrils and mouth. Exposure may cause sore throat, coughing, sneezing, and the production of phlegm in the throat. Nosebleeds may occur in cases of those with sensitive nose membranes.

#### **Skin Contact:**

Contact may cause temporary, mild irritation of the skin to moist skin. Reaction with water releases heat and produces a weak basic chemical compound which may give a mild burning sensation to sensitive skin. Cement mixtures are very abrasive to skin, and may aggravate tender skin causing rash, cuts or sores.

#### **Skin Absorption:**

There is no evidence of any component of these products entering the body by this method.

#### **Eye Contact:**

Severe eye irritant, causing burns, known as "lime burns".

#### **Ingestion:**

Oral toxicity is low, but ingestions may cause irritation of the gastrointestinal tract. Ingestion of large quantities of cement will cause stomach cramps, vomiting, and diarrhea.

### **Chronic Health Effects:**

Prolonged exposure to cement mixtures may produce dermatitis and eczema. This product is not expected to accumulate in the body. Cement dust can cause inflammation of the tissue lining the interior of the nose and the cornea of the eye.

### **Medical Conditions Aggravated by Exposure:**

Respiratory problems may be aggravated by pre-existing lung disease such as bronchitis, emphysema, or chronic obstructive pulmonary disease.

## 4. First Aid Measures

#### **Inhalation:**

If irritation causes coughing or phlegm, remove to fresh air. Call for medical assistance if coughing doesn't subside.

#### **Skin Contact:**

Wash affected area thoroughly with soap and water. If irritation persists, seek medical attention.

#### **Eye Contact:**

Immediately and thoroughly flush eyes with large amounts of water for at least 15 minutes, occasionally lifting the lower and upper eyelids. If irritation, pain, swelling, or lacrimation exists, get medical attention as soon as possible.

#### **Ingestion:**

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If patient is conscious, give one or two glasses of water. **Do not induce vomiting.** Do not give anything by mouth to a convulsing or unconscious person. Get immediate medical attention.

### General Comments:

Good personal hygiene is essential. Avoid eating, smoking or drinking in work areas.

## 5. Fire Fighting Measures

**Flammability:** No

**Flash Point:** Not applicable

**Autoignition Temperature:** Not applicable

**Lower Explosive Limit:** Not applicable

**Upper Explosive Limit:** Not applicable

### Explosion Data:

**Sensitivity to Impact:** No

**Sensitivity to Static Discharge:** No

**Hazardous Combustion Products:** None known

**Conditions to Avoid:** None

**Extinguishing Media:** These materials are not flammable. Use any medium necessary to extinguish surrounding fire. If possible, try to keep uninvolved product dry.

**Fire Fighting Instructions:** Evacuate area and fight fire from a safe distance or a protected area. Approach fire from upwind. At high temperatures fumes of calcium oxide may evolve. Firefighters must wear self-contained breathing apparatus and full protective clothing.

## 6. Accidental Release Measures

### Personal Protection:

Wear adequate personal protection to prevent inhalation of dusts, contact with skin or eyes. See Section 8 for specific recommendations.

### Environmental Precautions:

Prevent from spilling into waterways, sewers.

### Cleanup Procedures:

Restrict access to area until completion of cleanup. Avoid harmful exposure to dusts. Only adequately trained personnel, wearing properly selected personal protective equipment and clothing described in Section 8, should be involved in the spill response and cleanup.

## 7. Handling and Storage

### Handling Procedures:

This material is mildly corrosive and reactive with water. Handle bags in a manner that will ensure minimal generation of dusts. Do not get on skin or do not breathe dust, which may generate accidentally. Follow safe work procedures and wear the appropriate personal protective equipment specified in Section 8. The workers must be instructed and trained in the safe work procedures.

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### Storage:

Keep dry! This product reacts with water to harden. Store in a sheltered area away from moisture. Do not store near foodstuffs. Store away from incompatible materials such as strong acids.

## 8. Exposure Controls, Personal Protection

### Engineering Controls:

Ensure that sufficient ventilation is available to keep dust below the TLV. If possible, mix this product outdoors. Airborne concentrations should be low, however, provide adequate ventilation to ensure airborne concentrations are kept below applicable regulated exposure limits.

### Respiratory Protection:

Respirators must be NIOSH approved and properly selected, maintained and used when working with this product. Knowledge of respiratory hazards and respiratory protection is essential to ensure appropriate selection of respirators. Use an approved NIOSH dust respirator with a minimum N95 rating.

### Skin Protection:

Wear clothing to prevent contact with skin.

### Eye and Face Protection:

Wear safety glasses to prevent contact with eyes and make immediately available appropriate emergency eyewashing equipment (e.g. portable or plumbed) capable of flushing the eyes for at least 15 minutes.

## 9. Physical and Chemical Properties

<b>Physical State:</b>	Solid
<b>Appearance:</b>	White powder with sand particles
<b>Odour:</b>	None
<b>Odour Threshold:</b>	Not applicable
<b>pH:</b>	10-12 (supernatant)
<b>Vapour Pressure:</b>	Not applicable
<b>Solubility in water:</b>	No
<b>Vapour Density:</b>	Not applicable
<b>Melting Point:</b>	Not applicable
<b>Boiling Point:</b>	Not applicable
<b>Freezing Point:</b>	Not applicable
<b>Specific Gravity:</b>	2.7 – 2.8 (water = 1)
<b>Coefficient of Water/oil</b>	Not applicable
<b>Distribution:</b>	
<b>Evaporation Rate:</b>	Not applicable

## 10. Stability and Reactivity

<b>Chemical Stability:</b>	This product is stable.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Incompatibility:</b>	Yes. Reacts with strong inorganic acids to give off carbon dioxide gas.
<b>Reactivity:</b>	Yes. Reacts with water forming polymerized silicates and calcium oxide.

**Hazardous Decomposition Products:** None

## 11. Toxicological Information

<b>Effects of Acute Exposure:</b>	See Section 3
<b>Effects of Chronic Exposure:</b>	See Section 3
<b>Irritancy:</b>	Yes. See Section 3.
<b>Skin Sensitization:</b>	None reported
<b>Respiratory Sensitization:</b>	None reported
<b>Neurotoxicity:</b>	No
<b>Carcinogenicity:</b>	Crystalline silica is listed by IARC
<b>Embryotoxicity:</b>	No
<b>Teratogenicity:</b>	No
<b>Reproductive Toxicity:</b>	No
<b>Mutagenicity:</b>	No
<b>Synergistic Products:</b>	None reported

## 12. Ecological Information

**Environmental Toxicity:** Hardened concrete has no environmental toxicity. Do not pour powdered product into the environment, waterways or sewers

**Biodegradability:** Hardened concrete will not biodegrade.

## 13. Disposal Considerations

Review federal, provincial or state, and local government requirements prior to disposal. Store material for disposal as indicated in Storage Conditions. Disposal by controlled incineration may be acceptable.

## 14. Transport Information

**Canadian Transportation of Dangerous Goods Regulations:** Not regulated

**International Air Transport Association (IATA):** Not regulated

**International Maritime Organization (IMO):** Not regulated

## 15. Regulatory Information

### CANADIAN FEDERAL REGULATIONS:

**CEPA, DOMESTIC SUBSTANCES LIST:** Listed

**WHMIS CLASSIFICATION:** E, D2A

## 16. Other Information

**Original Preparation Date:** June 23, 2004

**Prepared by:** Kel-Ex Agencies Ltd., P.O. Box 52201, Lynnmour RPO, North Vancouver, BC, Canada, V7J 3V5

**Disclaimer:** This Material Safety Data Sheet was prepared in accordance with criteria and requirements of the Hazardous Products Act and the Controlled Products Regulations using information provided by the manufacturer and other sources including CCINFO (Chemical Information published by the Canadian Centre for Occupational Health and Safety). The information in the Material Safety Data Sheet is offered for your consideration and guidance when exposed to this product. TARGET PRODUCTS LTD. expressly disclaims all expressed or implied warranties and assumes no responsibilities for the accuracy or completeness of the data contained herein. The data in this MSDS does not apply to use with any other product or in any other process.

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