



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: Kleen Blast

Product Use: Abrasive Blasting

Supplier: 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				
	% (w/w)	Respirable Silica (10µm particle size) % (w/w)	Exposure Limits/ACGIH ¹	LD ₅₀	LC ₅₀
Smelter Slag	90-100	-	TLV-TWA: 10 mg/m ³ for nuisance dust	Not Established	Not Established
Oxides and silicates of Iron, Calcium, Aluminum and Zinc	Each < 0.1	-	TLV-TWA: 10 mg/m ³ for nuisance dust	Not Established	Not Established
Elemental Lead, Magnesium and Manganese	Each < 0.1	-	TLV-TWA: 10 mg/m ³ for nuisance dust	Not Established	Not Established
Silicon Dioxide	<1.0	< 0.005	TLV-TWA: 0.05 mg/m ³ for respirable crystalline silica dust	>31600 mg/kg (oral/rat)	>2 mg/L (rat/1 hour)

- 1 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

Emergency Overview:

When abrasive blasting, the abrasive is being used to remove and clean a surface. The substance that has been removed may contain materials that represent health hazards that cannot be addressed in the Material Safety Data Sheet. The employer must ensure that a risk assessment is done before any abrasive blasting activity which may cause release of a harmful level of an air contaminant from a surface or coating containing a toxic heavy metal or asbestos.

This blasting abrasive must NOT be reused unless it is being used in a fully enclosed, vented cabinet designed to recirculate the abrasive material.

Acute Health Effects:

Inhalation:

Inhalation of glass particles may cause irritation to the upper respiratory tract. 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 due to abrasion of sensitive tissue.

Skin Contact:

This product is mildly abrasive to skin, but may aggravate tender skin causing rash, cuts or sores.

Skin Absorption:

Not applicable

Eye Contact:

Contact with the eye will cause tearing and irritation from the "foreign" object in the eye. Rubbing of the eye may cause abrasion of the cornea.

Ingestion:

No evidence of ill effects from ingestion of this product.

Chronic Health Effects:

Excessive inhalation of abrasive particulate dust may result in respiratory disease, scarring of lung tissue, cancer, pneumoconiosis, or pulmonary fibrosis. Prolonged contact with abrasive by sensitive skin may result in skin redness, rash and sores.

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. If irritation persists, seek medical attention.

Eye Contact:

Immediately and thoroughly flush eyes with water until the foreign object is flushed out of the eye. If irritation, pain, swelling, or lacrimation exists, get medical attention as soon as possible.

Ingestion:

Ingestion of particulate is not considered to be injurious to health. Give fluids to aid in the passing of the product through the digestive system. Do not give anything by mouth to a convulsing or unconscious person. If patient shows discomfort, 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 and will not contribute to a conflagration.

Fire Fighting Instructions: Evacuate area and fight fire from a safe distance or a protected area. At high temperatures small amounts of fume comprised of the following elements may evolve; calcium, iron, aluminum, zinc, magnesium and manganese. 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. 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:

Handle bags in a manner that will ensure minimal generation of dusts. 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.

Do not rely on sight to determine if dust is in the air. Abrasive particulate may be in the air without a visible dust cloud. If dust cannot be kept below permissible limits, wear a high efficiency respirator approved for particulate dust.

Used abrasive blasting materials must be removed from the work area at the end of the work shift and dust collection must be used to minimize airborne contaminant. Used abrasive blasting materials must not be dry-swept.

Storage:

Store away from incompatible materials. See Section 10.

8. Exposure Controls, Personal Protection

Engineering Controls:

Engineering controls such as an enclosure or local exhaust ventilation with dust collection must be used to maintain airborne contamination levels below the exposure limits, where practicable.

When an abrasive blasting operation is conducted inside an enclosure or cabinet, the enclosure or cabinet must have exhaust ventilation that maintains air pressure below the air pressure outside the enclosure or cabinet, so as to prevent the escape of air contaminants to other work areas, and minimizes worker exposure inside the enclosure.

When abrasive blasting is being conducted outside a structure, the process must be restricted to a work zone which is identified by signs or similar means as being contaminated. Only properly protected workers, who are necessary to perform the work, are permitted inside an enclosure or a restricted work zone where abrasive blasting is being conducted.

The operating controls for an abrasive blasting machine or jetting gun must be located near the nozzle in a position where the operator's hands will be when using the device.

Respiratory Protection:

Target Products

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 high efficiency NIOSH dust respirator with a minimum N95 rating. In selecting the appropriate respirator must reflect the contaminant likely to be present in the spent abrasive.

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 eye washing equipment (e.g. portable or plumbed) capable of flushing the eyes for at least 15 minutes.

9. Physical and Chemical Properties

	Physical State	Appearance	Odour	Odour Threshold	pH (supernatant)	Vapour Pressure	Vapour Density (Air= 1)	Solubility in water	Melting Point	Boiling Point	Specific Gravity (Water=1)	Coefficient of water/oil Distribution	Evaporation Rate (Butyl Acetate=1)
Kleen Blast	Solid	Black angular granules	None	None	N. App	N. App	N. App	No	1316 °C	N. App	2.8	N. App	N. App

10. Stability and Reactivity

Chemical Stability:

This product is stable.

Hazardous Polymerization:

Will not occur.

Incompatibility:

Yes. Contact with powerful oxidizing agents such as fluorine, chlorine trifluoride and oxygen difluoride may cause exothermic reactions resulting in fires.

Reactivity:

Product components may react with mineral acids such as hydrofluoric acid.

Hazardous Decomposition Products: None

11. Toxicological Information

Effects of Acute Exposure:	See Section 3
Effects of Chronic Exposure:	See Section 3
Irritancy:	Yes. See Section 3.
Skin Sensitization:	None reported
Respiratory Sensitization:	None reported
Neurotoxicity:	No
Carcinogenicity:	No
Embryotoxicity:	No
Teratogenicity:	No
Reproductive Toxicity:	No
Mutagenicity:	No
Synergistic Products:	None reported

12. Ecological Information

Environmental Toxicity: No environmental impact for uncontaminated abrasive. Determination of abrasive blasting contamination is required to determine environmental impact.

Biodegradability: No

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: Not a WHMIS controlled product

16. Other Information

Original Preparation Date: July 05, 2005

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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Revisions: Reviewed and re-issued 10 March 2017