

SAFETY DATA SHEET

SECTION 1: PRODUCT IDENTIFICATION

Product Identifier: Crushed Recycled Glass

Other Means of Identification: Clear Blast (#20, #40), Crushed Glass

Recommended Use: Sandblasting, non-slip surfaces, filtration

Restrictions on Use: None Known

Supplier Identifier: Bell & Mackenzie Co. Ltd. 500 Sherman Ave., N., P.O. Box 844 LCD #1 Hamilton, Ontario L8N 3N9 Telephone #1-905-527-6000 or 1-888-794-5665

Emergency Telephone Number: Same as above

SECTION 2: HAZARD(S) IDENTIFICATION

Classification: Not Classified

Label Elements: None

Other Hazards: Crushed Glass is not classified as a hazardous material by the Canadian Hazardous Products Act.

WHMIS: Not Classified

GHS Signal Word: Not Applicable

GHS Hazard Statement(s): Not Applicable

GHS Hazard Symbol: Not Applicable

GHS Precautionary Statement(s): Not Applicable

Tel: (905) 527-6000
Toll Free Tel: 1-888-794-5665
Fax: (905) 527-6660
Toll Free Fax: 1-888-794-7263
info@bellandmackenzie.com

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Composition:

Chemical Name	CAS No.	% Weight	Other Identifiers
Glass	65997-17-3	100	
Contains:			
Silicon Dioxide	7631-86-9	70-80	SiO ₂
Sodium Oxide	12401-86-4	7-15	Na ₂ O
Calcium Oxide	1305-78-8	5-15	CaO
Aluminum Oxide	1344-28-1	0-3	Al ₂ O ₃
Potassium Oxide	12136-45-7	0-2	K ₂ O
Magnesium Oxide	1309-48-4	0-3	MgO
Iron Oxide	1309-37-1	0-1	Fe ₂ O ₃
Sulfur Trioxide	7446-11-9	0-1	SO ₃
Chlorine	7882-50-5	0-1	Cl
Titanium Dioxide	13463-67-7	0-2	TiO ₂
Phosphorus Pentoxide	1314-56-3	0-1	P ₂ O ₅
Manganese Trioxide	1317-34-6	0-1	Mn ₂ O ₃
Chromium Trioxide	1333-82-0	0-1	Cr ₂ O ₃

Notes: The component minerals are not present as free oxides as they are fully combined in the glass. Composition is provided as information only but is not intended to suggest that these compounds are present as free compounds in the mixture.

SECTION 4: FIRST AID MEASURES

Inhalation: If inhaled, remove affected person(s) to fresh air. If symptoms persist, contact a qualified medical professional.

Skin Contact: Wash exposed skin with soap and water thoroughly. If irritation develops consult a medical professional.

Eye Contact: Immediately flush eyes thoroughly with plenty of water or an ophthalmic saline solution. Do not rub eyes. If irritation develops consult a medical professional.

Ingestion: Rinse mouth with water. Do not induce vomiting.

Most Important Symptoms and Effects, Acute and Delayed: Dust in excess of exposure limits may result in irritation to the respiratory tract.

Immediate Medical Attention and Special Treatment: Chronic lung conditions may be aggravated by exposure to high limits of dust. Precautions should be taken when working with this product to alleviate pre-existing medical condition, treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Product is not flammable. Use any media that is appropriate for the surrounding materials.

Unsuitable Extinguishing Media: None Known.

Specific Hazards Arising from the Product: None anticipated

Special Protective Equipment and Precautions for Fire-Fighters: Wear proper protective clothing and use approved breathing apparatus to avoid breathing any dusts of this material that may become airborne in an emergency situation.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Wear appropriate clothing and respiratory protection (see Section 8). Avoid generation and spreading of dust. Avoid inhalation of dust.

Methods and Materials for Containment and Cleaning Up: Avoid creating dust clouds when cleaning up spilled material. The material may be reused, recycled or disposed of in compliance with local, provincial, federal and state regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Product should be handled with care to avoid damage to packaging to avoid spillage. Avoid creating dust and contact with skin and eyes. Ensure proper ventilation.

Conditions for Safe Storage: Store in a dry, cool location away from incompatible substances.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Control parameters of relevance to industrial settings (occurrence of dusts, mists and fumes)
The user must know the exact nature of the dust produced during the industrial process for which the abrasive is used, and must take the necessary measures to protect his workers. A qualitative analysis is necessary for any substrate that may contain any substance with an exposure limit. The concentrations of the substances contained in the spent abrasive are subject to exposure limits (in particular average exposure limits under the relevant receiving country's environmental regulations).

There are no Specific Threshold Limit values (TLV) or Permissible Exposure Limits (PEL) for crushed glass abrasive. It is the responsibility of the User who must determine the appropriate thresholds, types of controls and the nature of the personal protection required based on the type of equipment used, surfaces/parts being processed and the operating conditions.

Chemical Name	ACGIH TLV	OSHA PEL
Particulates not otherwise classified	10 mg/m ³	15 mg/m ³

Note: Quartz is inextricably bound in the product and therefore does not contribute to a dust inhalation hazard. This product contains less than 0.1% crystalline silica.

Appropriate Engineering Controls

Local Exhaust: Use adequate ventilation and exhaust to control the dust and fumes generated during operations and reduce the exposure levels. If applicable, use process enclosures or other engineering controls to maintain airborne levels below the recommended exposure limits.

Eye/Face Protection: Wear appropriate eye safety protection with side shields or a hood with protective lenses.

Skin Protection: Use protective gloves, work suits and work boots. Maintain good personal hygiene practices that include washing exposed skin with soap and water and laundering work clothing that becomes dusty.

Respiratory Protection: If airborne dust exposure approaches the TLV or PEL, use half mask or full-face air purifying respirator equipped with NIOSH or MSHA approved respirators appropriate for the dust levels generated.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid, sub-angular (green, white, brown, blue)

Odor: None

Odor Threshold: Not Applicable

pH: Not Applicable

Melting Point / Freezing Point: > 800°C (melting point)

Initial Boiling Point / Boiling Range: Not applicable

Flash Point: Not Applicable

Evaporation Rate: Not Applicable

Flammability (Solid, Gas): Not Available (not flammable based on experience)

Upper and Lower Flammability or Explosive Limit: Not Available

Vapor Pressure: Not Applicable

Vapor Density (air = 1): Not Applicable

Relative Density (water = 1): Not Determined

Specific Gravity (water = 1): 2-3

Solubility in Water: Insoluble

Solubility in Other Liquids: Not Applicable

Partition Coefficient, n-Octanol/Water: Not Applicable

Auto-ignition Temperature: Not Applicable

Decomposition Temperature: Not Applicable

Viscosity: Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable under normal handling and storage conditions

Reactivity: Not reactive under normal conditions of use

Possibility of Hazardous Reactions: Not Anticipated

Conditions to Avoid: None Known

Incompatible Materials : Hydrofluoric Acid

Hazardous Decomposition Products: None Known

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Skin Contact, Eye Contact, Ingestion

Acute Toxicity: As with many dusty products, prolonged or repeated inhalation of very large amounts of dust may cause Chronic Obstructive Pulmonary Disease (COPD) or Chronic Bronchitis.

Skin Corrosion / Irritation: May cause mechanical irritation

Serious Eye Damage / Irritation: May cause mechanical irritation

STOT (Specific Target Organ Toxicity) Single Exposure: None Known

Aspiration Hazard: None Known

STOT (Specific Target Organ Toxicity) Repeated Exposure: At extremely high repeated and prolonged doses, inhalation of this product may cause COPD or Chronic Bronchitis, but based on the very high levels needed to cause this effect, this product has not been classified under this category.

Respiratory and/or Skin Sensitization: Not anticipated to cause respiratory and/or skin sensitization based on available information.

Carcinogenicity: Some of the oxide components of this product can cause cancer, but since they are not free oxides and are instead bound up in the glass matrix and based on available information, this product has not been classified as a carcinogen

Reproductive Toxicity: Not anticipated to cause reproductive toxicity based on available information.

Germ Cell Mutagenicity: Not anticipated to cause mutagenicity based on available information on this product.

Aspiration Hazard: Not Applicable

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Not Determined

Persistence and Degradability: Not Determined

Bioaccumulative Potential: Not Determined

Mobility in Soil: Not Determined

Other Adverse Effects: None Anticipated. This product, as delivered, does not present any threat to the environment. This product should be used under the best possible working conditions to avoid releasing it into the environment.

Note: This product is considered to be an inert solid waste and no special precautions are required in case it is released or spilled.

SECTION 13: DISPOSAL CONSIDERATIONS

Product as supplied is a non-hazardous, inert bulk material. Collected dust from blast cleaning operations always contains contaminants from the surface of the parts being processed and therefore the dust may possibly be classified as a hazardous waste and as such must be disposed of according to the appropriate local, provincial, federal or state regulations. The User is responsible for disposing of their waste correctly according to their specific activity, according to or in compliance with local, provincial, federal or state regulations. Residue may be retained in empty containers so take proper precautions.

SECTION 14: TRANSPORT INFORMATION

This product has no special conditions for transportation.
Not regulated by DOT or TDG

SECTION 15: REGULATORY INFORMATION

Classification according to US HCS – Hazcom 2012: Non-hazardous

This SDS complies with the OSHA, 29 CFR 1910.1200.

Classification according to Canadian Hazardous Products Regulations (WHMIS 2015): Non-hazardous

This SDS complies with the HPR (WHMIS 2015) requirements.

Test Results from McMaster University dated April 28, 2004 for analysis of silica. Clean Water Center (www.cwc.org) analysis of glass dusts.

All the raw material components of the glass oxide are in the TSCA inventory.

SECTION 16: OTHER INFORMATION

SDS Prepared by: Richard Bell

Phone #: 1-905-527-6000

Date of Preparation: February 5, 2018

Disclaimer: To the best of our knowledge, the information contained herein is accurate. However, Bell & Mackenzie Co. Ltd. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.