

SAFETY DATA SHEET

SECTION 1: PRODUCT IDENTIFICATION

Product Identifier: Ballotini Impact Beads

Other Means of Identification: Glass Beads (various sizes)

Recommended Use: Various commercial and industrial uses, including impact blasting

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 #905-527-6000 or 1-888-794-5665

Emergency Telephone Number: See above

SECTION 2: HAZARD(S) IDENTIFICATION

Classification: Not Classified as dangerous for supply/use.

Physical: Not Hazardous

Health: Dust may cause mechanical irritation.

Environmental: Not Hazardous

Label: Not Applicable

Caution – Spillages may be slippery. When used for abrasive blasting, this material can rebound or fragment into sharp particles which are hazardous to the eyes and skin. Dust may cause irritation. Noise is a major hazard in abrasive blasting processes. Abrasive blasting can generate heat, sparks, and static electrical charge.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS NO	%	Other Identifiers
Glass oxide, Glass	65997-17-3	100	
<i>Regulation (EC) No. 1272/2008 (CLP)</i>			

SECTION 4: FIRST AID MEASURES

Inhalation: Remove affected person(s) to fresh air. Apply oxygen if difficulty breathing and consult a Professional immediately.

Ingestion: If large amounts are swallow, rinse mouth with water. Don't induce vomiting. No significant signs or symptoms are expected to occur as a result of ingestion. Seek medical help if feeling unwell.

Skin Contact: Wash exposed skin gently but thoroughly with soap and lukewarm water for about 10 minutes. Seek medical attention if rash develops.

Eye Contact: Immediately flush eyes thoroughly with lukewarm water for at least 15 minutes while holding the eye lid open. Do not rub eyes. If irritation persists, seek medical attention.

Most Important Symptoms/Effects, Acute and Delayed: Dust may cause mechanical irritation. Caution – spillages may be slippery.

Immediate Medical Attention and Special Treatment: None Required.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use appropriate extinguishing media for surrounding fire.

Unsuitable Extinguishing Media: None known.

Specific Hazards Arising from the Product: Non-combustible.

Special Protective Equipment and Precautions for Fire-Fighters: None is required. Fire Fighters should always wear full protective fire-fighting gear and self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Wear appropriate clothing and respiratory protection (see Section 8). Avoid generating airborne dust during clean-up.

Environmental Precautions: No specific precautions. Report any spills and releases as required to the appropriate authorities.

Methods for Containment and Cleaning Up: Caution – spillages may be slippery. Avoid generation of dust. Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal in accordance with local regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Avoid creating dust. Use only in well ventilated areas. Take precautionary measures against static discharge. Practice proper personal and industrial hygiene.

Conditions for Safe Storage: Store in properly closed containers. Keep dry.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Chemical Name	OSHA PEL	ACGIH TLV
Glass oxide, Glass	5 mg/m ³ (respirable) 15 mg/m ³ (total) (Particulates Not Otherwise Regulated)	10 mg/m ³

Appropriate Engineering Controls: Minimize airborne dust generation. Engineering methods to prevent or control exposure are preferred. Methods include process of personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of the process conditions.

Individual Protection Measures

Eye/Face Protection: Wear safety glasses with side shields. Use tight fitting goggles if dust is generated

Skin Protection: Use protective gloves. Wear suitable protective clothing.

Respiratory Protection: Wear suitable respiratory protection equipment if working in confined spaces with inadequate ventilation or where there is any risk of the exposure limits being exceeded. Observe OSHA (29 CFR §1910.134).

Comments: Proper and safe use of the material is solely the purchaser's responsibility. Bell & Mackenzie Co. Ltd. extends no warranties and makes no representations as to the suitability of the product for the purchaser's intended purpose or the consequences of purchaser's actions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Glass Granular Powder, White

pH (400 g/l water at 20°C): Not Applicable

Odor: Odorless

Melting Point: approx. 730°C

Freezing Point: Not Applicable

Boiling Point: Not Applicable

Flash Point: Not Applicable

Flammability (solid, gas): Non-combustible

Upper and Lower Flammability or Explosive Limit: Not Applicable

Specific Gravity (water = 1): 2.3 – 2.6

Evaporation Rate: Not Applicable

Solubility in Water: Insoluble

Vapor Density: Not Applicable

Vapor Pressure (air = 1): Not Applicable

Auto-ignition Temperature: Not Applicable

Decomposition Temperature: Not Applicable

Flammable Limits (LEL/UEL): Not Applicable

Partition Coefficient: n-octanol/water: Not Applicable

Viscosity: Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Stable under normal conditions. Avoid contact with strong acids.

Chemical Stability: Product is stable at normal temperatures.

Possibility of Hazardous Reactions: None known under normal conditions.

Conditions to Avoid: Extremely high or low temperatures.

Incompatible Materials: Strong acids.

Hazardous Decomposition Products: None Known.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute Toxicity: No acute toxicity data is available for this product.

Skin Corrosion/Irritation: May cause mechanical irritation.

Serious Eye Damage/Irritation: May cause mechanical irritation and possible injury.

Ingestion: The acute oral toxicity of this product has not been tested. A *similar material* was non-toxic to rats at 5,000 mg/kg

STOT (Specific Target Organ Toxicity) – Single Exposure: Not Classified

STOT (Specific Target Organ Toxicity) – Repeated Exposure: Not Classified

Respiratory and/or Skin Sensitization: Not sensitizing.

Carcinogenicity: There are no known reports of carcinogenicity of non-fibrous glass. Components are not listed by IARC, NTP or OSHA as carcinogens.

Reproductive Toxicity: No specific data is available, however, there is no evidence that this product has any effect on reproduction.

Germ Cell Mutagenicity: No specific data is available, however, there is no evidence that this product is a germ cell mutagen.

Interactive Effects: None known

Comments: Although Bell & Mackenzie Co. Ltd. Has taken reasonable care in the preparation of this Safety Data Sheet, no warranties are made. Bell & Mackenzie Co. Ltd. Makes no representations and assumes no responsibility as to the accuracy or suitability of the Safety Data Sheet for the applications intended by the purchaser.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: No environmental hazards have been reported or known.

Persistence and Degradability: This material is persistent but inert in aquatic systems.

Bioaccumulative potential: This product is not expected to bio accumulate.

Mobility in Soil: Not Applicable

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods: The waste of the products is considered non-hazardous as supplied. Dispose in accordance with all applicable local, state/provincial and federal regulations. Disposal of packaging should be carried out in compliance with local regulations. Re-use of the packaging is not recommended.

SECTION 14: TRANSPORT INFORMATION

This product is not classified as dangerous for transport.

SECTION 15: REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS: Classified as non-hazardous. Not classified as PBT or vPvB.

SARA 313: This product contains no chemical present at or above the deminimus concentration.

CERCLA Section 103 Reportable Quantity: None

Toxic Substances Control Act (TSCA): Reported/Included

SECTION 16: OTHER INFORMATION

Hazardous Material Information System (HMIS):

Health 0

Flammability 0

Physical Hazard 0

National Fire Protection Association (NFPA):

Health 0

Flammability 0

Reactivity 0

SDS Prepared By: Richard Bell

Phone No: 1-905-527-6000

Date of Preparation: January 26, 2018

Key to Abbreviations:

ACGIH – American Conference of Governmental Industrial Hygienists

OSHA – Occupational Safety and Health Administration

IARC – International Agency for Research on Cancer

Disclaimer: The information contained herein is based on technical data Bell & Mackenzie Co. Ltd. believes reliable. No warranties, expressed or implied, are made and no liability is assumed by Bell & Mackenzie Co. Ltd. in connection with any use of this information. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use in accordance with local, provincial, federal or state regulations.