SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier
Product Name: BALLOTINI IMPACT BEADS

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified use(s): Impact abrasive

1.3 Details of the supplier of the safety data sheet
Company Identification: Potters Industries LLC
P. O. Box 841
Valley Forge, PA 19482 USA
Telephone: +1 610-651-4200
E-Mail (competent person): sds.uk@pqcorp.com

1.4 Emergency telephone number
Emergency Phone No.: Potters Industries LLC +1 610-651-4200
ChemTrec (800) 424-9300

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
GHS Classification: Not classified as dangerous for supply/use.
EC Classification: Not classified as dangerous for supply/use.

Hazards summary: Dust may cause irritation. Spilled material is slippery. When used for abrasive blasting, this material can rebound or fragment into sharp particles which are hazardous to the eyes and skin. 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

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>%W/W</th>
<th>CAS No.</th>
<th>EINECS No. / REACH Registration</th>
<th>EC Classification and Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass oxide; Glass</td>
<td>100</td>
<td>65997-17-3</td>
<td>2660460</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures
Eye Contact: Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. If symptoms persist, obtain medical attention.
Skin Contact: Wash affected skin with plenty of water. If symptoms occur obtain medical attention.
Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest. If symptoms develop, obtain medical attention.
Ingestion: Do not induce vomiting. Get immediate medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed
Dust may cause irritation. Spilled material is slippery. Dust may cause discomfort and mild irritation.
SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media
Suitable Extinguishing Media  As appropriate for surrounding fire.
Unsuitable extinguishing Media None known.

5.2 Special hazards arising from
the substance or mixture
Non-combustible.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear suitable protective clothing. Wear eye/face protection.

6.3 Methods and materials 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.

6.4 Reference to other sections
Not applicable.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with eyes, skin and clothing. Avoid generation of dust. Wash thoroughly after handling. Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed and dry.

7.3 Specific end use(s)
Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>Occupational Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glass oxide; Glass</td>
<td>No Occupational Exposure Limit assigned. 15mg/m3 total dust 5mg/m3 respirable (Particulates Not Otherwise Regulated)</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

8.2.1 Engineering Controls
Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

8.2.2 Personal Protection
Respiratory protection
Wear suitable respiratory protective equipment if working in confined spaces with inadequate ventilation or where there is any risk of the exposure limits being exceeded. Observe OSHA regulations for abrasive blasting (29 CFR 1910.94) respirator use (29 C.F.R. §1910.134).

Eye/face protection
Goggles.
Skin protection
Wear suitable protective clothing and gloves. For example cotton or rubber.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information on basic physical and chemical properties

Appearance  Glass Powder . White.
Odour  Odourless.
Odour Threshold (ppm)  Not applicable.
P H (Value)  Not applicable.
Freezing Point (°C)  Not applicable.
Melting Point (°C)  Approx 730 °C
Boiling Point (°C)  Not applicable.
Flash Point (°C) [Closed cup]  Not applicable.
Evaporation rate  Not applicable.
Flammability (solid, gas)  Non-combustible.
Vapour Pressure (mm Hg)  Not applicable.
Vapour Density (Air=1)  Not applicable.
Solubility (Water)  Insoluble.
Partition Coefficient  Not applicable.
Auto Ignition Point (°C)  Not applicable.
Decomposition Temperature (°C)  Not applicable.
Viscosity (mPa. s)  Not applicable.
Explosive properties  Not applicable.
Oxidising Properties  Not applicable.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity  Avoid contact with strong acids
10.2 Chemical stability  Stable.
10.3 Possibility of hazardous reactions  Not applicable.
10.4 Conditions to avoid  Not applicable.
10.6 Hazardous decomposition product(s)  None known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute toxicity
Ingestion  The acute oral toxicity of this product has not been tested. A similar material was nontoxic to rats at 5,000 mg/kg.
Inhalation  Inhalation may cause irritation to the mucous membranes.
Skin Contact  Dust may cause mechanical irritation.
Eye Contact  Dust may cause mechanical irritation.
Sensitisation  Not sensitising.
Carcinogenicity  There are no known reports of carcinogenicity of nonfibrous glass. Components are not listed by IARC, NTP or OSHA as carcinogens.
Reproductive toxicity  No evidence of reproductive effects.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity  No environmental hazards have been reported or known.
12.2 Persistence and degradability  This material is persistent but inert in aquatic systems. It will not biocconcetrate up the food chain.
12.5 Results of PBT and vPvB assessment  Not classified as PBT or vPvB.
12.6 Other adverse effects  Not applicable

SECTION 13: DISPOSAL CONSIDERATIONS
13.1 Waste treatment methods
Product as supplied: The waste is considered to be non-hazardous. Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION
14.2 Proper Shipping Name
NOT CLASSED AS DANGEROUS FOR TRANSPORT.

SECTION 15: REGULATORY INFORMATION
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
TSCA Inventory Status: Reported/Included.
AICS Inventory Status: Reported/Included.
DSL/NDSL Inventory Status: Reported/Included.
There is no CERCLA Reportable Quantity for this material.
Contains no SARA Title III, Section 313 notification chemical present at or above the deminimus concentration.
German Water Hazard Classification VwVwS: WGK class 1 (low hazard to water).
HMIS: 0,0,0

SECTION 16: OTHER INFORMATION
This SDS was last reviewed: Jan 05, 2016
The following sections contain revisions or new statements: All sections.

EC Classification No. 67/548/EEC
Not classified as dangerous for supply/use.
GHS Classification EC No. 1272/2008
Not classified as dangerous for supply/use.

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