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 +1 610-651-4700

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. 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. 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

Regulation (EC) No. 1272/2008 (CLP)

Ingredient(s)	%W/W	CAS No.	EINECS No. / REACH Registration	Hazard symbol(s) and hazard statement(s)
Glass oxide; Glass	100	65997-17-3	2660460	Not classified.

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. Caution - spillages may be 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

SUBSTANCE.	Occupational Exposure Limits
Glass oxide; Glass	No Occupational Exposure Limit assigned. 15mg/m3 total dust 5mg/m3 respirable (Particulates Not Otherwise Regulated)

8.2 Exposure controls	
8.2.1 Appropriate 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.
pH (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	May cause irritation to the respiratory system.
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 toxicity or developmental toxicity.

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 bioconcentrate 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: 01/2014
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 Not classified as dangerous for supply/use.

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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Blasting Beads

for all sizes and types

Version number: GHS 1.0 Date of compilation: 11.12.2013

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name **Blasting Beads**
for all sizes and types

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses blasting beads

1.3 Details of the manufacturer/supplier of the safety data sheet

Swarco M. Swarovski Gesellschaft m.b.H.
Industriestraße 10
A-3300 Amstetten
Austria

Telephone: +43 (0)7472/202-0
Telefax: +43 (0)7472/202-249
e-mail: office.msa@swarco.com
Website: www.swarco.com

e-mail (competent person) msds.msa@swarco.com

1.4 Emergency telephone number

Emergency information service +43 (0)7472/202-0
This number is only available during the following office hours:
Mon-Thu: 7 a.m. - 4 p.m., Fri: 7 a.m - 11 a.m.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)
This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Classification according to Directive 1999/45/EC (DPD)
This mixture does not meet the criteria for classification in accordance with Directive 1999/45/EC.

The most important adverse physicochemical, human health and environmental effects
Repeated inhalation of large amounts of dust over a long period of time increases the risk of developing lung diseases. The product enters directly through the oral or nasal cavity.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)
not required

2.3 Other hazards

Dust can cause irritation to the cornea and conjunctiva. Causes mild skin irritation. Localised redness, oedema, pruritis and/or pain. May cause respiratory irritation by the inhalation of dust.

SECTION 3: Composition/information on ingredients

3.1 substances not relevant (mixture)

3.2 Mixtures

Description of the mixture

Soda-lime glass CAS No. 65997-17-3, EINECS No. 266-046-0

SiO_2 (68-75%), Na_2O (12-18%), CaO (7-12%), MgO (0-5%), Al_2O_3 (0-2,5%)

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes
In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation
In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

Following skin contact
Rinse skin with water/shower. Do no rub affected area. Take off contaminated clothing. If skin irritation or rash occurs: get medical advice/attention.

Following eye contact
Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Do no rub affected area.

Following ingestion
Rinse mouth with water (only if the person is conscious).

4.2 Most important symptoms and effects, both acute and delayed
pulmonary irritation, localised redness, pruritis, cough

4.3 Indication of any immediate medical attention and special treatment needed
none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
The product itself does not burn. Combustible: Packaging materials

5.2 Special hazards arising from the substance or mixture
none

5.3 Advice for firefighters
Co-ordinate firefighting measures to the fire surroundings.

Special protective equipment for firefighters
Filtering half-face mask (EN 149), P3 (filters at least 99,95 % of airborne particles, colour code: White)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Prevention of skin contact. Control of dust. Do not breathe dust.

For emergency responders
In case of spillage - Wear respiratory protection: Half mask with particle filters P2 (filters at least 94 % of airborne particles, colour code: White)
Dampen dust and place it in a properly closed receptacle and dispose it safely.

6.2 Environmental precautions
Knock down dust with water spray.

6.3 Methods and material for containment and cleaning up
Take up mechanically (control of dust, dampen dust). Other information relating to spills and releases: Special danger of slipping by leaking/spilling product. Ventilate affected area (Particulates and dust). No dry sweeping using a broom. Do not blow off dust deposits.

Reference to other sections
Personal protective equipment: see section 8.
Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Don't use a brush or compressed air for cleaning surfaces or clothing. Avoid the release and swirling up of dust.

Measures to protect the environment
Completely emptied packages can be recycled.

Advice on general occupational hygiene
Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities
When not in use, keep containers tightly closed. Store in a dry place. Removal of dust deposits (control of dust).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Dusts, particles

Country (Identifier) - Source	TWA [mg/m³]	STEL [mg/m³]
BG (ГСРМ) - acc. to "Наредба No 13"	10 (i) / 4 (r)	
EE (TKOP) - acc. to "VV 18. 2001. nr 293"	10 (i) / 5 (r)	
GB (WEL) - acc. to "EH40/2005"	10 (i) / 4 (r)	
HR (GVI) - acc. to "NN 13/09"	10	
KR (EL) - acc. to "MoEL"	10	
LT (RD) - acc. to "HN 23:2011"	10 (i) / 5 (r)	
LV (AER) - acc. to "BSN" (recommendation)	10	
PL (NDSiN) - acc. to "MPiPS"	10	
PT (VLE) - acc. to "DL n.º 24/2012"	10 (i) / 3 (r)	
RO (VLON) - acc. to "Hotărâre nr. 1218"	10	

RU (ПДК) - acc. to "GOST 12.1.005-88"	10
SE (HGV) - acc. to "AFS"	10 (i) / 5 (r)
SI (MVPI) - acc. to "Ur.l. RS, št. 102/2010"	6 (r)
TW (PEL) - acc. to "CLA"	10 (i) / 5 (r)

Notation

i	inhalable fraction
r	respirable fraction
*	this OEL value corresponds to that of other listed phthalates

BG (Bulgaria)	ГСРМ: Граничните Стойности на Работното Място (limit values at workplace) Наредба No 13: За защита на работещите от рискове, свързани с експозиция на химични агенти при работа. (The protection of workers from the risks related to the exposure to biological agents at work.)
EE (Estonia)	TKOP: Töökeskkonna Keemiliste Ohutegurite Piirnormid (occupational exposure limit values) VV 18. 2001. nr 293: Vabariigi Valitsuse 18. septembri 2001. a määrus nr 293 "Töökeskkonna Keemiliste Ohutegurite Piirnormid" (18 Government of the Republic September, 2001. Regulation No. 293 "Occupational Exposure Limits")
GB (Great Britain)	WEL: Workplace Exposure Limits EH40/2005 Workplace exposure limits, Table 1: List of approved workplace exposure limits (as consolidated with amendments December 2011) (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
HR (Croatia)	VI: Graničnim Vrijednostima Izloženosti (exposure limits) NN 13/09: Narodne novine 13/09 "Pravilnik o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima." (Official Gazette 13/09: "Regulations on limit values for exposure to hazardous substances at work and on the biological limit values.")
KR (Korea, Republic of)	EL: Exposure Limit MoEL: Ministry of Employment and Labor "Exposure limits of chemicals and physical agents"
LT (Lithuania)	RD: profesinio poveikio Ribinis Dydis (occupational exposure limit value) HN 23:2011: HIGIENOS NORMOS HN 23:2011 "Cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai." (Hygiene Standard HN 23:2011 "Occupational exposure limit of chemicals. Measurement and impact assessment of general requirements.")
LV(Latvia)	ER: Aroda Ekspozīcijas Robežvērtība (occupational exposure limit value) MKN 325: Ministru kabineta noteikumi Nr.325 "Darba aizsardzības prasības saskarē ar ķīmiskajām vielām darba vietās." (Cabinet Regulation No. 325 "Labour protection requirements when coming in contact with chemical substances at workplaces.") BSN: Baltic Sea Network on Occupational Health and Safety (http://www.balticseaosh.net/files/82.pdf)
PL (Poland)	NDSiN: Najwyższych Dopuszczalnych Stężeń i Natężeń (Maximum admissible concentrations and intensities) MPiPS: Ministerstwo Pracy i Polityki Społecznej "Najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy." (Ministry of Labour and Social Policy "Maximum admissible concentrations and intensities for agents harmful to health in the working environment.")
PT (Portugal)	LE: Valores Limite de Exposição profissional (occupational exposure limit values) DR - DL n.º 24/2012: Diário da República - Decreto-Lei n.º 24/2012 "Valor limite de exposição profissional obrigatório (Anexo I)", "Valores limite de exposição profissional com carácter indicativo (Anexo III)"; (Official Gazette - Decree-Law no. 24/2012 "Binding occupational exposure limit value (Annex I)", "Indicative occupational exposure limit values (Annex III)"
RO (Romania)	VLON: Valori Limită Obligatorii Naţionale de expunere profesională ale agenţilor chimici (National mandatory limit values of occupational exposure to chemical agents) Hotărâre nr. 1218: Cerinţelor minime de securitate şi sănătate în muncă pentru asigurarea protecţiei lucrătorilor împotriva riscurilor legate de prezenţa agenţilor chimici. (Minimum requirements of safety and health for the protection of workers from risks related to chemical agents.)
RU (Russia)	ДК: Предельно Допустимые Концентрации вредных веществ в воздухе рабочей зоны. (Maximum allowable concentration of harmful substances in occupational air.) GOST 12.1.005-88: Система стандартов безопасности труда. Общие санитарно-гигиенические требования к воздуху рабочей зоны .(Occupational safety standards system. General sanitary requirements for working zone air.)
SE (Sweden)	HGV: Hygieniska GränsVärden AFS: Arbetsmiljöverkets författningssamling "Hygieniska gränsvärden" (Work Environment Authority "Occupational exposure limit values")
SI (Slovenia)	MVPI: Mejnih Vrednosti Poklicne Izpostavljenosti (occupational exposure limit values) Ur.l. RS, št. 102/2010: Uradni list Republike Slovenije št. 102/2010 "varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu." ("Protection of workers from the risks related to exposure to chemical substances at work.")
TW (Taiwan)	PEL (Permissible Exposure Limits of hazardous substances in air) CLA: Council of Labor Affairs "Standards of permissible exposure limits of airborne hazardous substances in workplace."

8.2 Exposure controls

Appropriate engineering controls

Don't use a brush or compressed air for cleaning surfaces or clothing. Regular cleaning of work area. Use a vacuum cleaner fitted with an HEPA filter.

Individual protection measures (personal protective equipment)

Eye/face protection
Use safety goggle with side protection.

Skin protection

• hand protection
Wear protective gloves

• type of material
reinforced coating: nitrile, NR: natural rubber, latex

• other protection measures
Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling. Wear suitable working clothes.

Respiratory protection
Use respiratory protection for dust-intensive work: Filtering half-face mask (EN 149).

Environmental exposure controls
Control of dust. Use of compressed air to clean clothes prohibited.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	solid (spherical)
Colour:	transparent
Odour:	odourless

Other physical and chemical parameters

pH (value):	not applicable
Melting point:	c. 1400 °C transition temperature: c. 630 °C
Initial boiling point and boiling range:	not applicable
Flash point:	not applicable
Evaporation rate:	not applicable
Flammability (solid, gas):	not applicable
Vapour pressure:	not applicable
Density:	2 - 2,6 $^{g}/_{cm^3}$
Bulk density:	1,2 - 1,8 $^{g}/_{cm^3}$ (depending on the grain size)
Solubility(ies)	
- water solubility:	insoluble
Partition coefficient	not applicable
Viscosity	not relevant (solid matter)
Explosive properties:	none
Oxidising properties:	none

9.2 Other information
none

SECTION 10: Stability and reactivity

10.1 Reactivity
This material is not reactive under normal ambient conditions.

10.2 Chemical stability
See below "Conditions to avoid".

10.3 Possibility of hazardous reactions
No known hazardous reactions.

10.4 Conditions to avoid
There are no specific conditions known which have to be avoided.

10.5 Incompatible materials
There is no additional information.

Hazardous decomposition products
Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification according to GHS (1272/2008/EC, CLP)
This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity
Shall not be classified as acutely toxic.

Skin corrosion/irritation
Shall not be classified as corrosive/irritant to skin.

Respiratory or skin sensitisation
Shall not be classified as a respiratory or skin sensitiser.

Specific target organ toxicity (STOT)
Shall not be classified as a specific target organ toxicant.

Aspiration hazard
Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute)
Shall not be classified as hazardous to the aquatic environment (acc. to 1272/2008/EC).

12.2 Process of degradability
Data are not available.

12.3 Bioaccumulative potential
Data are not available.

12.4 Mobility in soil
Data are not available.

12.5 Results of PBT and vPvB assessment
Data are not available.

12.6 Other adverse effects
Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information
Possibility of reuse or recycling.

Waste treatment of containers/packagings
Completely emptied packages can be recycled.

Relevant provisions relating to waste
Non-hazardous waste in accordance with Article 3 (2) in conjunction with Annex III of Directive 2008/98/EC.
Please consider the relevant national or regional provisions.
Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1	UN number	not relevant (not subject to transport regulations)
14.2	UN proper shipping name	not relevant
14.3	Transport hazard class(es)	
	Class	-
14.4	Packing group	not relevant
14.5	Environmental hazards	none (non-environmentally hazardous acc. to the dangerous goods regulations)

14.6 Special precautions for user
There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
The cargo is not intended to be carried in bulk.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Industry or sector specific available guidance(s)	European Network on Silica (nepSi) "10 Golden Rules to suppress dust"
National regulations	see section 8 for Occupational Exposure Limits (OELs)
• Recommendations	Health and Safety Executive (HSE): Control of exposure to silica dust Health and Safety Executive (HSE): Respiratory protectiveequipment at work (practical guide HSG53)

15.2 Chemical Safety Assessment
Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DPD	Dangerous Preparations Directive (1999/45/EC)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant)
PBT	Persistent, Bioaccumulative and Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
vPvB	very Persistent and very Bioaccumulative

Key literature references and sources for data
- Regulation (EC) No. 1907/2006 (REACH), amended by 453/2010/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

Classification procedure
Physical and chemical properties: The classification is based on tested mixture.
Health hazards/Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Disclaimer
This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.