

SAFETY DATA SHEET

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

1.1 Product identifier

Product Name Q-Cel® Inorganic microspheres - ALL GRADES
CAS No. Mixture

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

Identified use(s) Specialty engineering additive in plastics. E.g. it is added to modify the density, impact resistance, wear resistance, provide thermal or acoustic insulation in plastics and thermoset systems.
Uses advised against Not available.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Potters Ballotini Ltd
Pontefract Road
Barnsley S71 1HJ
South Yorkshire
United Kingdom

Telephone: +44 (0)1226 704516
Fax: +44 (0)1226 207615
E-mail: PQHS-Sales@pqcorp.com

1.4 Emergency telephone number

Emergency Phone No. +1 610-651-4200
ChemTrec (800) 424-9300
+44 (0)1226 704516

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification Not classified as dangerous for supply/use.

2.2 Label elements

Hazard pictogram(s)

Signal word(s) Not applicable.

Hazard statement(s) Not applicable

Precautionary statement(s) Not applicable

2.3 Other hazards Caution - spillages may be slippery.

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)
Amorphous Sodium Borosilicate	>95	50815-87-7	Exempt	
Synthetic amorphous silica	<5	7631-86-9	231-545-4	

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	Get medical advice/attention.
4.2 Most important symptoms and effects, both acute and delayed	Dust may cause irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Flush the contaminated area of body with large amounts of water.

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.

5.3 Advice for fire-fighters

Not applicable.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing. Wear eye/face protection. An approved dust mask should be worn if dust is generated during handling.
See Also Section 8.

6.2 Environmental precautions

Floats on water.

6.3 Methods and materials for containment and cleaning up

Caution - spillages may be slippery. Avoid generation of dust. Use vacuum equipment for collecting spilt materials, where practicable. Transfer to a container for disposal or recovery.

6.4 Reference to other sections

Not applicable.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin, eyes or clothing. Avoid generation of dust. Wash thoroughly after handling. Wear protective equipment to comply with good occupational hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities

Do not eat, drink or smoke at the work place.

Keep container tightly closed and dry. In case of high humidity or storage for extended periods of time, use plastic bags to enclose product containers to avoid caking.

7.3 Specific end use(s)

Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

SUBSTANCE.	Occupational Exposure Limits
	UK EH40: Dust Total inhalable: WEL 10mg/m ³ 8h TWA. Respirable: WEL 4mg/m ³ 8h TWA. ACGIH: Particulates not otherwise classified Inhalable TLV 10mg/m ³ 8h TWA. Respirable: TLV 3mg/m ³ 8h TWA. OSHA: Inert or Nuisance Dust Total dust : PEL 15mg/m ³ 8h TWA. Respirable fraction : PEL 5mg/m ³ 8h TWA.
	UK EH40: Silica amorphous Total inhalable dust: WEL 6 mg/m ³ 8h TWA. Respirable dust: WEL 2.4 mg/m ³ 8h TWA. US ACGIH: Silica, Amorphous - Precipitated silica and silica gel: TLV withdrawn 2006 US OSHA: Silica amorphous - Precipitated silica: PEL 6mg/m ³ 8h TWA

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Use only with adequate ventilation to keep exposures (airborne levels of dust, fume, vapour etc) below recommended exposure limits.

8.2.2 Personal Protection

Respiratory protection

Avoid inhalation of dusts. Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely.

Eye/face protection

Chemical goggles (EN 166).

Skin protection

Wear suitable protective clothing and gloves. For example PVC or rubber gloves.

8.2.3 Environmental Exposure Controls

Local exhaust recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Powder. White.
Odour	Odourless.
Odour Threshold (ppm)	
pH (Value)	Not applicable.
Freezing Point (°C)	Not applicable.
Melting Point (°C)	Not applicable.
Boiling Point (°C)	Not applicable.
Flash Point (°C) [Closed cup]	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Explosive Limit Ranges	Not applicable.
Vapour pressure (Pascal)	
Vapour Density (Air=1)	Not applicable.
Density (g/ml)	Not applicable.
Solubility (Water)	Soluble.
Solubility (Other)	Not available.
Partition Coefficient	Not available.
Auto Ignition Point (°C)	Not applicable.
Decomposition Temperature (°C)	Not applicable.
Viscosity (mPa. s)	Not applicable.
Explosive properties	Not applicable.
Oxidising Properties	Not applicable.
9.2 Other information	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	None known.
10.4 Conditions to avoid	None known.
10.5 Incompatible materials	Strong acids
10.6 Hazardous decomposition product(s)	None known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Ingestion	Avoid ingestion. May be harmful if swallowed.
Inhalation	When a similar material was tested for respiratory toxicity in a 6-month intratracheal study in rats, no mortalities, untoward reaction, or observation correlated with exposure to the material. Minimal multifocal inflammation of the lung occurred in 90% of males and 80% of females. No appreciable increase in fibrous tissue was present in these lesions.

Skin Contact	When tested for primary irritation potential, this material caused mild eye irritation and slight skin irritation.
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Sensitisation

It is not a skin sensitiser.

Mutagenicity

Not classified

Carcinogenicity

IARC, NTP, OSHA, ACGIH do not list this product or any components thereof as known or suspected carcinogen.

Reproductive toxicity

Not classified

STOT - single exposure

Not classified

STOT - repeated exposure

Not classified

Aspiration hazard

Not classified

Other information

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	No data available on mixture. The following data is reported for sodium silicates: a 96 hour median tolerance for fish (<i>Gambusia affinis</i>) of 2320 ppm; a 96 hour median tolerance for water fleas (<i>Daphnia magna</i>) of 247 ppm.
12.2 Persistence and degradability	No data available on mixture.
12.3 Bioaccumulative potential	No data available on mixture.
12.4 Mobility in soil	No data available on mixture.
12.5 Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6 Other adverse effects	Not classified

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	The waste is considered to be non hazardous. Disposal should be in accordance with local, state or national legislation.
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SECTION 14: TRANSPORT INFORMATION

14.1 UN number	Not applicable
14.2 Proper Shipping Name	Not classified as dangerous for transport. Not classified as hazardous under DOT or US Transport Recommendations. Goods are not regulated for transport via IATA International Maritime Dangerous Goods (IMDG) Code: Not classified as hazardous ADR/RID Class : Not classified as dangerous for transport.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

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.

German Water Hazard Classification VwVwS: WGK class 1 (low hazard to water).

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15.2 Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

Reviewed and reconfirmed, no significant changes.

This SDS was last reviewed: 11/2017

The following sections contain revisions or new statements:

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