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

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.

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.

Hazards summary Dust may cause irritation. Spilled material can make floors slippery.

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>Amorphous Sodium Borosilicate</td>
<td>&gt;95</td>
<td>50815-87-7</td>
<td>Exempt</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Synthetic amorphous silica</td>
<td>&lt;5</td>
<td>7631-86-9</td>
<td>2315454</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 Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed
Dust may cause irritation. Spilled material can make floors slippery.
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.

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. 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. Store in original or clean plastic containers. In case of high humidity or storage for extended periods of time, use plastic bags to enclose product containers to avoid caking.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>SUBSTANCE.</th>
<th>Occupational Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synthetic amorphous</td>
<td>Particulates not otherwise classified, respirable: ACGIH: TLV 3 mg/m3 8h</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
Avoid inhalation of dusts. 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. Advice on respiratory protective equipment is given in the HSE (Health and Safety Executive) publication HS(G)53.

Eye/face protection
Chemical goggles.

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

Odour: Odourless.

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 (mm Hg): Not applicable.
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.
Eye Contact: When tested for primary irritation potential, this material caused mild eye irritation and slight skin irritation.
Sensitisation: It is not a skin sensitisier.
Carcinogenicity: IARC, NTP, OSHA, ACGIH do not list this product or any components thereof as known or suspected carcinogen.

SECTION 12: ECOLOGICAL INFORMATION

Revision: v2
Date of Issue : 10/2011
Date Previous Issue : 10/27/2010
12.1 Toxicity
This product has not been tested for ecotoxicity potential. The following data is reported for sodium silicates: a 96 hour median tolerance for fish (Gambusia affinis) of 2320 ppm; a 96 hour median tolerance for water fleas (Daphnia magna) 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.

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.

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.
German Water Hazard Classification VwVwS: WGK class 1 (low hazard to water).
1,0,0

SECTION 16: OTHER INFORMATION

This SDS was last reviewed: 10/2011
The following sections contain revisions or new statements: 3

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