1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Britesorb L10
Synthetic amorphous silica

Use: Beverage processing.

Manufacturer/Supplier: PQ Corporation
111 Ingalls Avenue
Joliet
Illinois 60435
USA

Telephone: +1 815 727 3651
Fax: +1 815 727 9857

Emergency Phone No.: ChemTrec (800) 424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>% W/W</th>
<th>CAS No.</th>
<th>EINECS No.</th>
<th>EC Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synthetic amorphous silica</td>
<td>&gt; 90 %</td>
<td>112926-00-8</td>
<td>2315454</td>
<td>Occupational Exposure Limits</td>
</tr>
<tr>
<td>Water</td>
<td>&lt; 10 %</td>
<td>7732-18-5</td>
<td>2317912</td>
<td></td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

EC Classification: Not classified as dangerous for supply/use.

Exposure to any kind of dust is potentially harmful.

4. FIRST AID MEASURES

Eye Contact: If substance has got into the eyes, immediately wash out with plenty of water. Obtain immediate medical attention.

Skin Contact: Wash affected skin with plenty of water. If symptoms develop, obtain medical attention.

Ingestion: Do not induce vomiting. Wash mouth with water. If large amount swallowed or symptoms develop obtain medical attention.

Inhalation: Remove patient from exposure, keep warm and at rest. If symptoms develop, obtain medical attention.

5. FIRE-FIGHTING MEASURES

General: Not applicable. Inorganic powder or granules. Non-combustible.
6. **ACCIDENTAL RELEASE MEASURES**

**Personal Protection**
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.

**Environmental Exposure Controls**
**General:** Contain spillages. Dampening with water can reduce dust. Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal.

7. **HANDLING AND STORAGE**

**Handling**
Avoid generation of dust. See Also Section 8. A considerable static electrical charge can be built up during mechanical handling which may become a hazard in atmospheres containing flammable vapours. Advice on the control of static is given in British Standard BS 5958.

**Storage**
Keep container tightly closed and dry.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Synthetic amorphous silica**
Silica amorphous, total inhalable dust: UK EH40: WEL 6 mg/m3 8h TWA.
Silica amorphous, respirable dust: UK EH40: WEL 2.4 mg/m3 8h TWA.
Silica, Amorphous - Precipitated silica and silica gel: ACGIH: TLV withdrawn 2006

**General:**
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.

**Respirators**
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.

**Skin Contact**
Wear suitable protective clothing and gloves. Plastic or rubber gloves. For example EN374-3. Wear suitable overalls.

**Eye Protection**
Safety spectacles. Goggles.

**Other**
Wear protective equipment to comply with good occupational hygiene practice. Do not eat, drink or smoke at the work place.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Powder</td>
</tr>
<tr>
<td>Colour</td>
<td>White</td>
</tr>
<tr>
<td>Odour</td>
<td>Odourless</td>
</tr>
<tr>
<td>pH (Value)</td>
<td>3 - 10 at 5% w/w in water.</td>
</tr>
<tr>
<td>Melting Point (°C)</td>
<td>&gt; 1000</td>
</tr>
<tr>
<td>Flash Point (°C) [Closed cup]</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>
10. **STABILITY AND REACTIVITY**

**Stability**
This product is hygroscopic.

**Hazardous Reactions**
None known.

**Hazardous Decomposition**
Product(s) None known.

11. **TOXICOLOGICAL INFORMATION**

**Acute Toxicity**
The lethal dose for humans for synthetic amorphous silica is estimated at over 15000 mg/kg.
Synthetic amorphous silica is a permitted food additive in the UK, US and many other countries.

**Inhalation**
Synthetic amorphous silica has little adverse effect on lungs and does not produce significant disease or toxic effect when exposure is kept below the permitted limits. However, existing medical conditions (eg. asthma, bronchitis) may be aggravated by exposure to dust. Effects of dust may be greater, and occur at lower levels of exposure in smokers compared to non-smokers.

**Eye Contact**
Dust may cause discomfort and mild irritation.

**Skin Contact**
Dust may have a drying effect on the skin.

**Carcinogenicity Information**
IARC assessment: Amorphous silica is not classifiable as to its carcinogenicity to humans (Group 3).

12. **ECOLOGICAL INFORMATION**

**Ecotoxicity**
Synthetic amorphous silica is virtually inert and has no known adverse effect on the environment.

13. **DISPOSAL CONSIDERATIONS**

**Recommended:**
Disposal should be in accordance with local, state or national legislation.
This product normally causes no problems in sewage treatment works, where it settles with the sewage sludge.
This material is not classified as hazardous waste under EEC Directive 91/689/EEC (and amendments). This material is not classified as hazardous waste under the Hazardous Waste (England and Wales) Regulations SI 2005 No. 894.
May be disposed of by landfill in accordance with local regulations.

14. **TRANSPORT INFORMATION**

Not classified according to the United Nations ‘Recommendations on the Transport of Dangerous Goods’.

**Packaging**
No special packaging requirements.
15. REGULATORY INFORMATION

EC Classification
Not classified as dangerous for supply/use.

Safety Phrases
Handle in accordance with good industrial hygiene and safety practices.
Avoid inhalation of dusts.

TSCA Inventory Status: Reported/Included. CAS No. 7631-86-9
AICS Inventory Status: Reported/ Included.
DSL/NDSL Inventory Status: Reported/ Included.
FDA: Silicon dioxide 21CFR 172.480

16. OTHER INFORMATION

The following sections contain revisions or new statements: All sections.

MSDS first issued 5 January 2010
MSDS data revised 01/2010

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