Section 1 : Chemical Product and Company Identification

Product Name : BOROSILICATE GLASS

Synonym : Glass, Borosilicate
Contact Information : Aarykin Technologies Sdn Bhd
14, Jalan Anggerik Mokara 31/60, Kota Kemuning Industrial Park,
40460 Shah Alam, Selangor. Malaysia.
Domestic & International Sales : +603 5124 0748
Order Online : www.aarygreen.com

Section 2 : Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon Dioxide</td>
<td>7631-86-9</td>
<td>76.1</td>
</tr>
<tr>
<td>Boron</td>
<td>7440-41-8</td>
<td>4.4</td>
</tr>
<tr>
<td>Sodium Oxide</td>
<td>1313-59-3</td>
<td>3.9</td>
</tr>
<tr>
<td>Aluminum Oxide</td>
<td>1344-28-1</td>
<td>2.5</td>
</tr>
<tr>
<td>Iron Oxide</td>
<td>1309-37-1</td>
<td>0.2</td>
</tr>
<tr>
<td>Potassium Oxide</td>
<td>12136-45-7</td>
<td>0.004</td>
</tr>
</tbody>
</table>

Section 3 : Hazards Identification

Potential Acute Health Effects :

*In Molten/Compound Form* – Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs & mucus membrane. Irritation to the eyes will caused watering & redness. Reddening, scaling & itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective gear when handling compound. This product is not listed by NTP, IARC or regulated as Carcinogen by OSHA.

Potential Chronic Health Effects :

*In Molten/Compound Form* - This product has not known chronic effects. Repeated or prolong exposure to this compound is not known to aggravate medical conditions.
Section 4 : First Aid Measures

Eye Contact :
*In Molten/Compound Form* – Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Skin Contact :
*In Molten/Compound Form* – Flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.

Inhalation :
*In Molten/Compound Form* – If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medial attention.

Ingestion :
*In Molten/Compound Form* – If swallowed, call a physician immediately

Section 5 : Fire and Explosion Data

Flammability of the Product : Non-Flammable

Auto-Ignition Temperature : Not Applicable

Flash Points : Not Applicable

Flammable Limits : Not Applicable

Products of Combustion : Not Applicable

Fire Fighting Procedure :
Special fire-fighting procedures are not associated with this product, however, firefighters should wear positive pressure, self-contained breathing apparatus if found with other materials.
**Section 6: Handling and Storage**

**Storage Temperature**: Store at ambient temperature

**Precautions**:
Keep away from direct flame. Keep away from sources of ignition. *(Dishwasher safe – top rack only)*

**Storage**:
Keep in cool, dry and well-ventilated area.

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**Section 7: Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Not available</td>
</tr>
<tr>
<td>Taste</td>
<td>Not available</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>Not Available</td>
</tr>
<tr>
<td>pH (1% soln/water)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Melting Point</td>
<td>724°C (1335°F)</td>
</tr>
<tr>
<td>Critical Temperature</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>2.46~2.49 (water = 1)</td>
</tr>
<tr>
<td>Volatility</td>
<td>Not available</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Water/Oil Dist. Coeff</td>
<td>Not available</td>
</tr>
<tr>
<td>Ionicity (in water)</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in cold water &amp; hot water</td>
</tr>
<tr>
<td>Bisphenol A &amp; Phthalates</td>
<td>Not contained</td>
</tr>
</tbody>
</table>

*(FDA approved. Suitable for handling both liquid & solid food. Do not release harmful chemical regulated by FDA.)*
**Section 8 : Stability and Reactivity Data**

**Stability** : The product is stable

**Instability Temperature** : Not available

**Condition of Instability** : Direct Flame, ignition sources, incompatible materials

**Incompatibility with various substances** :
Borosilicate glass is an inert material

**Corrosivity** : Non-corrosive

**Polymerization** : Will not occur

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**Section 9 : Toxicological Information**

**Routes of Entry** : *In Molten Form* – Inhalation. Ingestion.

**Toxicity to Animals** : Acute oral toxicity (LD50) : 3160mg/kg [Rat]

**Chronic Effects on Humans** : Not available

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**Section 10 : Ecological Information**

**Ecotoxicity** : Not available

**BOD5 and COD** : Not available

**Products of Biodegradation** :
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation** :
The product itself and its products of degradation are not toxic.
Section 11 : Disposal Considerations

Waste Disposal :
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 12 : Other Regulatory Information

OSHA :

Section 13 : Other Information

References : Not available

Other Special Considerations : Not available

Created : 28th December 2011

Last Updated : 20th February 2012 1600 hrs

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