SECTION I - IDENTIFICATION

SGL CARBON, LLC

8600 Bill Ficklen Drive
Charlotte, NC 28269

Product Name: Carbon/Graphite Grades and Graphitized Cathode Blocks, Grades 5BGN, BN, 10G, BN2

Chemical Name: Carbon

Telephone: SGL Carbon: (704) 593-5100
CHEMTREC: (800) 424-9300

Hazard Rating System
(0=Minimal – 4=Extreme)

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEALTH</td>
<td>0</td>
</tr>
<tr>
<td>FIRE</td>
<td>0</td>
</tr>
<tr>
<td>REACTIVITY</td>
<td>0</td>
</tr>
</tbody>
</table>

SECTION II - HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>PERCENT</th>
<th>C.A.S. NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graphite</td>
<td>&gt;99</td>
<td>7782-42-5</td>
</tr>
</tbody>
</table>

This material is listed on the TSCA Inventory

SECTION III - OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL: 15 mg/m³ as total nuisance particulate; 5 mg/m³ as respirable fraction

ACGIH TLV: 10 mg/m³ as total nuisance particulate; 2 mg/m³ as respirable fraction

NIOSH: None

CARCINOGEN: NTP No, IARC No, OSHA No

SECTION IV - HEALTH HAZARDS

Effects of exposure:

Prolonged and repeated overexposure to dust may lead to pneumoconiosis. Dust particles may cause mechanical irritation to the eyes and skin. Individuals with pre-existing chronic respiratory impairment or with serum antitrypsin deficiency may be at increased risk of pneumoconiosis.
SECTION V - EMPLOYEE PROTECTION

Respiratory Protection: NIOSH approved respirator for dust when overexposure exists.

Eye Protection: Safety glasses with side shields

Protective Gloves: None

Other Protective Equipment: None

Ventilation: Point of operation

SECTION VI - FIRST AID

Skin Contact: Wash affected area with soap and water especially before eating, smoking, and at the end of work shift.

Eye Contact: Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, call a physician.

Inhalation: Remove to fresh air. If breathing has stopped, administer artificial respiration and supply oxygen. Seek medical attention.

Ingestion: N/A

SECTION VII - FIRE AND EXPLOSION DATA

Flash Point: Does not flash.

Flammable Limits: N/A LEL ___________ UEL ___________

Extinguishing Media: Water, carbon dioxide, dry chemical, foam

Special Fire Fighting Procedures: Use self-contained breathing apparatus

Unusual Fire and Explosion Hazards: None

SECTION VIII - SPECIAL PRECAUTIONS

Precautions for Handling and Storing: None

Other Precautions: Carbon fibers are electrically conductive. Dust accumulation may cause electrical short circuits or other malfunctions.
SECTION IX - ENVIRONMENTAL PROTECTION

Spill or Leak Procedures:

Normal housekeeping practices. Sweep, shovel, or vacuum to clean up.

Waste Disposal Method:

Dispose of according to local, state, and federal regulations.

SECTION X - PHYSICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point (°F)</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>N/A</td>
</tr>
<tr>
<td>Spec. Gravity (H₂O = 1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density (Air = 1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation Rate (________ = 1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Not soluble</td>
</tr>
<tr>
<td>Percent Volatile by Volume</td>
<td>N/A</td>
</tr>
<tr>
<td>Appearance</td>
<td>Dark gray to black solid</td>
</tr>
<tr>
<td>Density (Air = 1)</td>
<td>1.8 g/cm³</td>
</tr>
</tbody>
</table>

SECTION XI - REACTIVITY DATA

- Unstable: [ ]
- Stable: [X]
- Hazardous Polymerization: [ ] May Occur [X] Will not occur

Conditions and Materials to Avoid:

None

Hazardous Decomposition Products:

None if handled in accordance with description.

SECTION XII - TRANSPORTATION

This product is not regulated by the US Department of Transportation (DOT), the International Air Transport Associations (IATA) or the International Maritime Dangerous Goods code (IMDG).

SECTION XIII - REFERENCES

- OSHA: 29 CFR 1910.1000, Table Z-1-A
- ACGIH: Documentation of Threshold Limit Values - Current Edition
- MSDS: Ringsdorff – 4/23/92