MATERIAL SAFETY DATA SHEET

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Product: Single Wall Carbon Nanotubes

Section 1 Product Identification

Chemical Name: Carbon Fullerene
Formula: Carbon
Chemical Family: Synthetic Graphite
Synonyms: Single Wall Carbon Nanotubes, SWNT
CAS Number: 7782-42-5 (Graphite)

Section 2 Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>%</th>
<th>OSHA/PEL</th>
<th>ACGIH/TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synthetic graphite</td>
<td>Up to 100%</td>
<td>15 mg/m³ (total dust)</td>
<td>2 mg/m³ TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 mg/m³ (respirable fraction)</td>
<td></td>
</tr>
<tr>
<td>Metallic impurity</td>
<td>Balance</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 3 Hazards Identification

Potential Health Effects

Eye Contact: May cause eye irritation
Skin Contact: No known hazards, but may be mildly irritating
Inhalation: May cause irritation to respiratory tract
Ingestion: No known hazards, but may irritate gastrointestinal tract
Acute and Chronic Health Effects: High concentration of dusts may be irritating to eyes, skin, mucus membranes and respiratory tract.
Section 4 First Aid Measures

Eye Exposure: Immediately flush eyes with copious amounts of water for 15 minutes. If exposure persists, get medical attention.

Skin Contact: Flush skin with water.

Inhalation: Remove to fresh air. If breathing difficulties persist, get medical attention.

Ingestion: Not expected to require first aid. If large amounts swallowed, give water and get medical advice.

Section 5 Fire Fighting Measures

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Explosion Limits</td>
<td>Unknown</td>
</tr>
<tr>
<td>Extinguisher Medium</td>
<td>Water, Carbon Dioxide, Dry Chemical, or Foam</td>
</tr>
<tr>
<td>Special Procedures</td>
<td>None</td>
</tr>
<tr>
<td>Decomposition Products</td>
<td>Carbon Monoxide, Carbon Dioxide</td>
</tr>
<tr>
<td>Unusual Hazards</td>
<td>Thermal decomposition or combustion may produce dense smoke.</td>
</tr>
</tbody>
</table>

Section 6 Accidental Release Measures

Spill Procedures: Sweep or vacuum according to normal housekeeping practices.

Section 7 Handling and Storage

Handling and Storage: Keep in closed container for storage.

Section 8 Exposure Controls and Personal Protection

Eye Protection: Use approved safety glasses or goggles.
Respiratory Protection: Use of a dust mask is recommended.
Skin Protection: Impervious gloves and protective clothing to prevent skin contact.
Ventilation: A local or general exhaust system is recommended.
Section 9 Physical and Chemical Properties

Form and Color: Clumpy, black powder or small black spheres
Molecular Weight: 840 to greater than 10,000,000
Boiling Point: Not applicable
Melting Point: Not determined. Expected to be greater than 2000°F
Specific Gravity: Greater than 1
Solubility in Water: Insoluble
Odor: Odorless

Section 10 Stability and Reactivity

Stability: Yes
Hazardous Polymerization: No
Hazardous Decomposition Products: Thermal decomposition or combustion may produce dense smoke, carbon monoxide and carbon dioxide
Materials to avoid: Strong oxidizing and reducing agents
Incompatibilities: None known
Conditions to avoid: None known

Section 11 Toxicological Information

Effects: No known toxicological effects

Section 12 Environmental Information

Ecological Information: No known ecological harms

Section 13 Disposal Considerations

Disposal: Dispose of this material in accordance with local, state, and federal regulations.

Section 14 Transportation Information

Not regulated.
Section 15 Regulatory Information

This material is listed on the US Toxic Substances Control Act (TSCA) Inventory and the following chemical inventories: Canadian Domestic Substances List (DSL), European Inventory of Existing Commercial Chemical Substances (EINECS), Korean Existing Chemicals List (ECL), Australian Inventory of Chemical Substances (AICS), the Philippines Inventory of Chemicals and Chemical Substances (PICCS), and the Swiss Giftliste 1 Inventory of Notified New Substances. In addition, this substance is not regulated in Japan and excluded from the Japanese Chemical Substances Control Law according to the Japanese Ministry of Economy, Trade and Industry, formerly the Ministry of International Trade and Industry (MITI).

Section 16 Other Information

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>BASIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
<td>Synthetic graphite powder</td>
</tr>
</tbody>
</table>

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>BASIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
<td>Synthetic graphite powder</td>
</tr>
</tbody>
</table>

Label Precautions:
Do not get in eyes, on skin or on clothing.
Do not breathe dust.
Wash thoroughly after handling.
Keep container closed.
Use with adequate ventilation.

Label First Aid:
If inhaled, remove to fresh air. If breathing difficulties persist, get medical attention. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. If irritation develops or persists, get medical attention.

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Preparation Date: January 25, 2001
Last revision: April 25, 2002