MATERIAL SAFETY DATA SHEET

Section I - Identity
Identity (As Used on Label and List): GC IPA (Granular or Pelletized)
Manufacturers Name: General Carbon Corporation
33 Paterson Street
Paterson, NJ 07501
Tel: (973)523-2223
Date Prepared: January 1, 2013

Section II - Hazardous Ingredients/Identity Information
Hazardous Components - (Specific Chemical Identity: Common Names)

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>OTHER LIMITS</th>
<th>RECOMMENDED</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon: Activated Carbon (CAS #: 7440-44-0)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>Phosphoric Acid (H3PO4) (CAS#: 7664-38-2)</td>
<td>1 mg/m3</td>
<td>1 mg/m3</td>
<td>N/A</td>
<td>33.75</td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>11.25</td>
<td></td>
</tr>
</tbody>
</table>

This product is non-hazardous according to the definition for "health hazard" and "physical hazard" provided in the OSHA Hazard Communication Law (29 CFR Part 1910).

Section III - Physical/Chemical Characteristics
Boiling Point: 316°F
Vapor Pressure (mm Hg): 0.03 @ 68°F
Vapor Density (AIR = 1): 3.4
Specific Gravity (H2O = 1): 2.3 g/cc real density
Melting Point: N/A
Evaporation Rate (Butyl Acetate =1): N/A
Solubility in Water: Insoluble
Appearance and Odor: Black, Odorless, Solid

Section IV - Fire and Explosion Hazard Data
Flash point (Method Used): N/A
Flammable Limits in Air % by Volume: N/A
LEL: N/A
UEL: N/A
Extinguishing Media: Flood with copious amounts of water
Special Fire Fighting Procedures: None
Unusual Fire and Explosion Hazards: Contact with strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. may result in fire

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33 Paterson Street Paterson, NJ 07501 Tel: 973-523-2223 Fax: 973-523-1494
Section V - Reactivity Data

Stability: stable
Conditions to Avoid: None
Incompatibility (Materials to Avoid): strong oxidizers such as, liquid oxygen, chlorine, permanganate, etc.
Hazardous Decomposition or Byproducts: carbon monoxide may be generated in the event of fire.
Hazardous Polymerization: will not occur

Section VI - Health Hazard Data

Primary Routes of Entry: Inhalation: Yes
Skin: Yes
Ingestion: Yes

Health Hazard (Acute and Chronic): Acute inhalation is LC50 (RAT) is 64.4 mg/l (nominal concentration) for activated Carbon. The product is not a primary skin-irritant. The primary skin irritation index Rabbit is 0. The product is non-toxic through ingestion. The acute oral LD50 RAT is 10 g/kg.
NTP: N/A
IARC Monographs: N/A
OSHA Regulated: N/A
Signs and Symptoms of Exposure: N/A
Medical Conditions Aggravated by Exposure: Contact Lens Users Without Proper Eye Protection.
Emergency and First Aid Procedures: Eyes: Flush With Water For At Least 15 minutes
Skin: Wash With Soap And Water

Section VII - Precautions For Safe Handling and Use

Steps To Be Taken In Case Material Is Released Or Spilled: Sweep up unused carbon and discard in refuse container or repackage. Use mask to avoid breathing dust.

Waste Disposal Method: Dispose of unused carbon in refuse container. Dispose of in accordance with local, state and federal regulations.

Precautions To Be Taken In Handling and Storing: Wet activated carbon removes oxygen from air causing a severe hazard to workers inside carbon vessels and enclosed or confined spaces. Do not get in eyes, or on skin or clothing. Do not breathe dust.

Other Precautions: Before entering such an area, sampling and work procedures for low oxygen levels should be taken to ensure ample oxygen availability, observing all local, state and federal regulations

Section VIII - Control Measures

Respiratory Protections (specify type): NIOSH approved particulate filter respirator is recommended if excessive dust is generated.

Ventilation: Local Exhaust: recommended
Mechanical (General): recommended
Special: N/A
Other: N/A

Protective Gloves: Rubber gloves recommended
Eye Protection: Safety goggles/glasses recommended
Other Protective Clothing or Equipment: None
Work/Hygienic Practices: Wash thoroughly after handling

***The information contained herein is accurate to the best of our knowledge. General Carbon Corporation makes no warranty with respect hereto said information and disclaims all liability from reliance there in.***