TA Instruments Inc.

TA Instruments Inc.
159 Lukens Drive
New Castle, DE 19720
302-427-4000

FOR CHEMICAL EMERGENCY
MATERIAL SAFETY DATA SHEET
24 Hours per Day 7 Days per Week
Call CHEMTREC 800-424-9300
Outside N. America 703-527-3887 (collect)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION:
Product Name: BPL Carbon
Date of Prep: May 23, 2012
MSDS #: 901177.001
Revision: A

2. COMPOSITION/INFORMATION ON INGREDIENTS:

<table>
<thead>
<tr>
<th>CHEMICAL INGREDIENT NAME</th>
<th>CAS NUMBER</th>
<th>EC NUMBER</th>
<th>% BY WT.</th>
<th>EXPOSURE LIMITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activated Carbon</td>
<td>7440-44-0</td>
<td></td>
<td>100</td>
<td>5 mg/M³</td>
</tr>
</tbody>
</table>

Notes:

3. HAZARDS IDENTIFICATION:

Black particulate solid, pellet or powder. Contact may cause eye irritation. Dust may be slightly irritating to eyes and respiratory tract. Avoid generation of dust during handling.

CAUTION: Wet activated carbon removes oxygen from air causing a severe hazard to workers in enclosed or confined space. 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.

4. FIRST AID MEASURES:

Inhalation: Dust may cause mild irritation to the upper respiratory tract. Remove to fresh air and rest as needed; seek medical attention for any breathing difficulty.

Skin Contact: Dust may cause mild irritation, possibly reddening. Wash with soap and water; seek medical attention.

Eye Contact: Dust may cause mild irritation, possibly reddening. Immediately flush with copious amounts of water for at least 15 minutes, lifting both the upper and lower lids occasionally; seek medical attention.

Ingestion: Dust may cause mild irritation to digestive track resulting in nausea or diarrhea. Drink plenty of water; seek medical attention.

Note to physician:

5. FIRE-FIGHTING MEASURES:

Flammable Properties: NE
Extinguishing Media: Use an extinguishing media suitable for the surrounding fire.

Unique Aspects Contributing To a Fire: As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source. Activated carbon is difficult to ignite and tends to burn slowly (smolder) without producing smoke or flame. Carbon monoxide and carbon dioxide gas may be generated if combusted. Contact with strong oxidizers such as ozone or liquid oxygen may cause rapid combustion.

Special Fire Fighting Procedures: Wear NIOSH approved self-contained breathing apparatus suitable for the surrounding fire.

Note:

6. ACCIDENTAL RELEASE MEASURES: Dike all entrances to sewers and drains. Vacuum or shovel spilled material and place in closed container for disposal. Remove product to appropriate storage area until it can be properly disposed of in accordance with local, state and federal regulations. Avoid dust formation.

7. HANDLING AND STORAGE: Avoid prolonged contact with eyes and skin. Keep away from ignition sources. Use in well ventilated areas. Protect containers from physical damage. Wash hands after handling. Store in cool, dry, ventilated area and in closed containers. Keep away from oxidizers, heat or flames. Store away from ignition sources.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Handle in accordance with good laboratory practices.

Respiratory Protection: Use of NIOSH approved particulate filter is recommended if dust is generated in handling.

Eye Protection: Gloves
Skin Protection: Safety glasses w/ side shields.

Engineering Controls: No special ventilation requirements. Good general ventilation should be adequate. Mechanical ventilation is recommended for enclosed or confined spaces.
9. PHYSICAL AND CHEMICAL PROPERTIES:

**Physical State:** Solid

**Flash Point:** NA

**Vapor Pressure:** 0

**Explosion Limits:** Ignition temp >220°C

**Vapor Density (air=1):** solid

**Solubility in Water:** Not Soluble

**Flash Point:** NA

**Boiling Point:** NA

**Melting Point:** NA

**pH:** NA

**Explosion Limits:** Ignition temp >220°C

**Vapor Density (air=1):** solid

**Solubility in Water:** Not Soluble

**pH:** NA

**Boiling Point:** NA

**Melting Point:** NA

**Specific Gravity:** 0.4 to 0.7

**Appearance:** Black granular powder or material

**Odor:** None

**Explosion Limits:** Ignition temp >220°C

**Vapor Density (air=1):** solid

**Solubility in Water:** Not Soluble

**Other:**

10. STABILITY AND REACTIVITY:

**Flammable Polymerization**

- Will Not Occur

- May Occur

**Stability:** Stable.

**Hazardous Decomposition/Combustion Products:** Carbon Dioxide or Carbon Monoxide may be created during combustion.

**Conditions & Materials to Avoid:** None

11. TOXICOLOGICAL INFORMATION:

**Primary Route(s) of Exposure Under Normal Use:** Inhalation

**Target Organ(s):** Eyes, skin, upper respiratory.

**Acute Effects:** NE

**Chronic Effects:** NE

**Other Information:**

12. ECOLOGICAL INFORMATION: NE

13. DISPOSAL CONSIDERATIONS: Vacuum or shovel material into a closed container. Storage and disposal should be in accordance with applicable local, state and federal laws and regulations. Local regulations may be more stringent than state or federal requirements.

14. TRANSPORT INFORMATION:

**U.S. DOT:** Shipping Name: BPL 4x6

**Hazard Class:** NA

**UN/NA #:** UN 1362

**Packing Group #:**

**IATA/ICAO:** Shipping Name: BPL 4x6

**Hazard Class:** NA

**UN/NA #:** UN 1362

15. REGULATORY INFORMATION:

**EU Risk/Safety Phrases:** Irritation to the eyes, respiratory system and skin.

**U.S. TOSCA:** Product is listed.

**Canada:** Product is listed.

16. OTHER INFORMATION:

<table>
<thead>
<tr>
<th><strong>U.S. EPA SARA</strong></th>
<th><strong>National Fire Protection Association Rating</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>313 Chemicals</td>
<td></td>
</tr>
<tr>
<td>Product is not subject to regulation.</td>
<td>CERCLA RQ</td>
</tr>
<tr>
<td></td>
<td>4= Severe Hazard</td>
</tr>
<tr>
<td></td>
<td>3=Serious Hazard</td>
</tr>
<tr>
<td></td>
<td>2=Moderate Hazard</td>
</tr>
<tr>
<td></td>
<td>1=Slight Hazard</td>
</tr>
<tr>
<td></td>
<td>0=Minimal Hazard</td>
</tr>
</tbody>
</table>

Notes: Not Established (NE) means a value has not been set or there is no information available. Not Applicable (NA) means that the topic is not pertinent.

The information contained herein has been compiled from data presented in various technical sources believed to be accurate. Waters makes no warranties and assumes no liability in connection with the use of this information. It is the user's responsibility to determine the suitability of this information and to assure the adoption of necessary precautions.