Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

IDENTITY (As Used on Label and List) Carbon Nonwoven Mat (ex. 8000015, -20, -30, -40, -600 Series)

U.S. Department of Labor
Occupational Safety and Health Administration (Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name Hollingsworth & Vose Company
Address (Number, Street, City, State, and ZIP Code) 112 Washington Street

Emergency Telephone Number (508) 668-0295
Telephone Number for Information (508) 668-0295

Date Prepared May 7, 2004

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

<table>
<thead>
<tr>
<th>Hazardous Components (Specific Chemical Identity; Common Name(s))</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits Recommended</th>
<th>% (optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon fiber (CAS No. 7440-44-0)</td>
<td>5 mg/m³*</td>
<td>10 mg/m³**</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* respirable fraction
** total dust

Section III - Physical/Chemical Characteristics

<table>
<thead>
<tr>
<th>Physical Property</th>
<th>Value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>N/A</td>
<td>Specific Gravity (H₂O = 1)</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>N/A</td>
<td>Melting Point</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>N/A</td>
<td>Evaporation Rate (Butyl Acetate = 1)</td>
</tr>
</tbody>
</table>

Solubility in Water Negligible.
Appearance and Odor Black nonwoven mat.

Section IV - Fire and Explosion Hazard Data

<table>
<thead>
<tr>
<th>Hazard Data</th>
<th>Value</th>
<th>Flammable Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

Extinguishing Media Water, CO₂
Special Fire Fighting Procedures Wear self-contained breathing apparatus.

Unusual Fire and Explosion Hazards Carbon fibers may be released and cause electrical problems.

(Reproduce locally)
Section V - Reactivity Data

<table>
<thead>
<tr>
<th>Stability</th>
<th>Unstable</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Hot, poorly ventilated areas.</td>
</tr>
<tr>
<td>Stable</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

Incompatibility (Materials to Avoid)
Strong oxidizers.

Hazardous Decomposition or Byproducts
Burning may generate carbon monoxide and other toxic byproducts.

Hazardous Polymerization
<table>
<thead>
<tr>
<th>May Occur</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hot, poorly ventilated areas.</td>
</tr>
</tbody>
</table>

Section VI - Health Hazard Data

Route(s) of Entry: Inhalation? Skin? Ingestion?

Yes Yes No

Health Hazards (Acute and Chronic)
Carbon fiber is a possible skin irritant.

Carcinogenicity:
NTP? IARC Monographs? OSHA Regulated?
Not applicable.

Signs and Symptoms of Exposure
Irritation of the skin.

H&V has been asked to supply the attached Material Safety Data Sheet (“MSDS”) despite the fact that some of the data contained therein is based on information supplied to H&V by third parties and the fact that H&V cannot anticipate all of the conditions of use and application with respect to the product described in the MSDS. Although H&V has made a good faith effort in filling out the MSDS and believes the information, data and suggestions contained therein to be reliable, H&V

Emergency and First Aid Procedures
Remove to fresh air. Flush eyes with water. Wash skin with soap and water.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
Pick up pieces. Use dust suppressant if sweeping is necessary.

Waste Disposal Method
Dispose of in accordance with federal, state, and local regulations.

Precautions to Be Taken in Handling and Storing
Protect electrical equipment from exposure to carbon fibers.

Other Precautions
Avoid creating dust. Avoid inhalation. Avoid excessive contact.

Section VIII - Control Measures

Respiratory Protection (Specify Type)
Not normally required if adequate ventilation is provided.

Ventilation
Local Exhaust Recommended for cutting and slitting operations; and at elevated temperatures Special
Mechanical (General) Recommended. Other

Protective Gloves
Not normally required.

Eye Protection
Not normally required.

Other Protective Clothing or Equipment
Not normally required.

Work/Hygienic Practices
Follow usual measures of personal hygiene.