Wm. R. Hall Company

Safety Data Sheet

Copying this information for the purpose of properly utilizing Wm. R. Hall products is allowed provided that the information is copied in full with no changes unless prior written agreement is obtained from Wm. R. Hall Company.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Wm. R. Hall Co. Cut Off Wheel
Manufacturer: Wm. R. Hall Company, Inc.
Division: Not applicable.
Address: 901 Gibbsboro Rd.
          Lindenwold, NJ 08021
Emergency Telephone: (856) 784-6700
Information: (856) 784-6700
Fax Telephone: (856) 784-6701
Issue Date: 10/27/05
Supersedes Date: 07/15/05
Specific Use: Abrasive Product

SECTION 2: HAZARDS IDENTIFICATION

2.1 EMERGENCY OVERVIEW
Odor, Color, Grade: Cut Off Wheel
General Physical Form: Solid
Immediate health, physical, and environmental hazards: This product, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product’s directions for use may affect the performance of the product and may present potential health and safety hazards.

2.2 POTENTIAL HEALTH EFFECTS
Eye Contact: Dusts may irritate eyes.
Skin Contact: Some may experience skin irritation from dust.
Ingestion: No known adverse effects, but ingestion not recommended.
Inhalation: Acute: Coughing, shortness of breath. Chronic: May affect breathing capacity.
Other: Grinding may create elevated sound levels which may affect hearing.
Medical Conditions Generally Aggravated by Exposure: Not Applicable
Carcinogenicity:
  NTP? Not Applicable
  IARC Monographs? Not Applicable
  OSHA Regulated? Not Applicable

SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum Oxide</td>
<td>1344-28-1</td>
<td>15 MG/M³</td>
<td>10 MG/M³</td>
<td>None</td>
<td>&lt; 80%</td>
</tr>
<tr>
<td>Iron Oxide</td>
<td>1309-37-1</td>
<td>15 MG/M³</td>
<td>10 MG/M³</td>
<td>None</td>
<td>&lt; 10%</td>
</tr>
<tr>
<td>Titanium Oxide</td>
<td>13463-67-7</td>
<td>15 MG/M³</td>
<td>10 MG/M³</td>
<td>None</td>
<td>&lt; 10%</td>
</tr>
<tr>
<td>Acrylonitrile</td>
<td>107-13-1</td>
<td>&gt; 1 ppm</td>
<td></td>
<td>None</td>
<td>&lt;.0001%</td>
</tr>
<tr>
<td>Butadiene</td>
<td>106-99-0</td>
<td>&gt; 0.02 ppm</td>
<td></td>
<td>None</td>
<td>&lt;.0001%</td>
</tr>
<tr>
<td>Cashew, nutshell liquid, polymer with formaldehyde and phenol</td>
<td>67700-42-9</td>
<td></td>
<td></td>
<td>None</td>
<td>&lt; 1%</td>
</tr>
</tbody>
</table>
SECTION 4: FIRST-AID MEASURES

4.1 FIRST AID PROCEDURES
Eye Contact*: Wash with large amounts of water. Obtain first aid and medical assistance if needed.
Skin Contact*: Wash affected areas with soap and water.
Inhalation*: Remove person to fresh air. Apply artificial respiration as needed. Obtain medical assistance.
Ingestion*: Obtain medical assistance.
Other Potential Health Risks*: Obtain medical assistance.
* During grinding.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES
Auto-ignition temperature: Not Applicable
Flash Point: Not Applicable
Flammable Limits – LEL: Not Applicable
Flammable Limits – UEL: Not Applicable

5.2 EXTINGUISHING MEDIA
Use Water.

5.3 PROTECTION OF FIRE FIGHTERS
Special Fire Fighting Procedures: None
Unusual Fire and Explosion Hazards: No Applicable Information Found

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Normal clean-up procedures.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

7.2 STORAGE
Normal dry storage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS
Ventilation: Recommended
Local Exhaust: Recommended
Mechanical (General): Recommended
Other: No Applicable Information Found
8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

8.2.2 Skin Protection
Protective Gloves: As desired by user.

8.2.3 Respiratory Protection
As needed. For approved dust respirators, see OSHA 29 CFR 1910.134 - Respiratory Protection.

8.2.4 Prevention of Swallowing

8.2.5 Other Protective Clothing or Equipment

8.3 EXPOSURE GUIDELINES
None Determined

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor, Color, Grade:</td>
<td>Coated Abrasive Product; may produce odor in use.</td>
</tr>
<tr>
<td>General Physical Form:</td>
<td>Solid</td>
</tr>
<tr>
<td>Auto-ignition temperature:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flash Point (Method Used):</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flammable Limits – LEL:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flammable Limits – UEL:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>No Applicable Information Found</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>No Applicable Information Found</td>
</tr>
<tr>
<td>% Volatile by Volume:</td>
<td>No Applicable Information Found</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>No Applicable Information Found</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>2 - 4</td>
</tr>
<tr>
<td>pH:</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Melting point:</td>
<td>No Applicable Information Found</td>
</tr>
<tr>
<td>Solubility in Water:</td>
<td>Slight</td>
</tr>
<tr>
<td>Solubility in Alcohol:</td>
<td>No Applicable Information Found</td>
</tr>
<tr>
<td>Solubility in Other Solvent:</td>
<td>No Applicable Information Found</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability:</td>
<td>Stable</td>
</tr>
<tr>
<td>Incompatibility (Materials to Avoid):</td>
<td>No Applicable Information Found</td>
</tr>
<tr>
<td>Conditions to be Avoided:</td>
<td>No Applicable Information Found</td>
</tr>
<tr>
<td>Polymerization:</td>
<td>Will not occur.</td>
</tr>
<tr>
<td>Hazardous Decomposition or By-Products:</td>
<td>Dust is generated in use. In most cases, the material removed from the work piece will be significantly greater than the grinding wheel components.</td>
</tr>
</tbody>
</table>
SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION
None Determined

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION
Not Determined

CHEMICAL FATE INFORMATION
Not Determined

SECTION 13: DISPOSAL CONSIDERATIONS


SECTION 14: TRANSPORT INFORMATION

U.S. Department of Transportation: Not regulated.

SECTION 15: REGULATORY INFORMATION

SARA Title III:
Section 311/312 Hazard Categories:
- Fire Hazard – No
- Pressure Hazard – No
- Reactivity Hazard – No
- Immediate Hazard – Yes
- Delayed Hazard – No

Section 313 Reportable Ingredients: None

SECTION 16: OTHER INFORMATION

Prepared by: Wm. R. Hall Company

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Abbreviations: IARC: International Agency for Research on Cancer
NTP: National Toxicology Program
OSHA: Occupational Health and Safety Administration (U.S.)
SARA Title III: Superfund Amendments and Reauthorization Act