Section 1

MATERIAL SAFETY DATA SHEET # 19
R-D Root Destroyer

Date Prepared: 1/31/1990  Last Reviewed: 11/12/2004

Section 2 - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s), CAS Numbers)

<table>
<thead>
<tr>
<th>Hazardous Component</th>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper Sulphate Pentahydrate (7758-99-8)</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>E</td>
</tr>
</tbody>
</table>

HMIS Hazard Rating: Health: 2  Flammability: 0  Reactivity: 0  Personal Protection: E

Section 3 - Physical/Chemical Characteristics

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point (°F):</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting Point (°F):</td>
<td>N/A</td>
</tr>
<tr>
<td>Specific Gravity (H2O = 1):</td>
<td>2.284</td>
</tr>
<tr>
<td>Evaporation Rate: (Butyl Acetate = 1):</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density: (Air = 1):</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility in Water:</td>
<td>Dissolves in water (24.2qm/100gm at 30° C)</td>
</tr>
<tr>
<td>Appearance And Color:</td>
<td>Blue granular crystals.</td>
</tr>
<tr>
<td>Odor:</td>
<td>No odor</td>
</tr>
</tbody>
</table>

Section 4 - Fire And Explosion Hazard Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point:</td>
<td>Non-flammable</td>
</tr>
<tr>
<td>Extinguishing Media:</td>
<td>Does not burn or support combustion.</td>
</tr>
<tr>
<td>Special Firefighting Procedures:</td>
<td>Use extinguishing media as appropriate for surrounding fire. Use CO2, dry chemical, or water. Avoid direct water stream on molten material, splattering may occur.</td>
</tr>
<tr>
<td>Unusual Fire And Explosion Hazards:</td>
<td>Heated above 110° C will melt and flow. Sealed containers may rupture when heated due to release of water from crystals. Material is acidic when dissolved in water. Contact with magnesium metal may evolve hydrogen gas. Anhydrous cupric sulfate formed on water loss (white color). Anhydrous salt will ignite hydroxylamine if present. At temperature greater than 600° C decomposes to cupric oxide and sulfur dioxide.</td>
</tr>
</tbody>
</table>

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Section 5 - Reactivity Data

Stability: Stable
Conditions To Avoid: High heat and reducing agents
Incompatibility (Materials To Avoid): Contact with magnesium metal may generate dangerous level of hydrogen gas.
Hazardous Decomposition: Above 600° C S02 may evolve; none at normal process temperature and pressure.
Hazardous Polymerization: Will Not Occur

Section 6 - Health Hazard Data

Routes of Entry
Inhalation YES/Primary
Skin YES/Primary
Ingestion YES/Secondary

Health Hazards
May cause nose irritation. Chronic hazard is very rare except in individuals with Wilson's Disease.

Carcinogenicity NTP NO IARC NO OSHA Regulated NO

Signs And Symptoms of Exposure:
Localized skin discoloration, itching, eye irritation, ulceration of nasal septum may occur. Repeated or prolonged skin contact may cause dermatitis.

Medical Conditions Generally Aggravated By Exposure:
Wilson's Disease (Individual absorbs, retains and stores copper excessively).

Emergency And First Aid Procedures:
Treat most urgent symptoms first. Cessation of breathing, eye injury, skin contact, shock. In all cases seek medical attention. INHALATION: Move to fresh air, administer CPR if required. EYES: Flush with large amounts of water at least 15 minutes. Hold lids open during flushing. SKIN: Flush with large amounts of water at least 15 minutes. Remove contaminated clothing. INGESTION: May cause severe GI tract irritation. Give conscious victim 2-3 glasses of milk and water to drink. Induce vomiting in conscious person. Get medical attention.

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Section 7 - Precautions For Safe Handling And Use:

Steps To Be Taken In Case Material Is Released Or Spilled:
Sweep up crystals or powder, vacuum is preferred. Prevent accidental entry of solution into streams and other bodies of water.

Waste Disposal Method:
For disposal of large quantities of waste, consult appropriate federal, state and local officials.

Precautions To Be Taken In Handling And Storing:
Store in closed containers in cool, dry and well ventilated area away from heat sources and reducing agents. Use good housekeeping practice to prevent dust accumulation.

Other Precautions:
Avoid breathing dust or solution mist.

Section 8 - Control Measures:

Respiratory Protection:
Where the possibility of dust exists, use NIOSH/MSHA approved dust mask.

Ventilation:  Local Exhaust Adequate Special N/A
Mechanical N/A Other: N/A

Gloves: Rubber
Eye Protection: Chemical goggles where splashing possible.
Other Protective Clothing: None
Work/Hygienic Practice: Use good personal hygiene. Wash hands before eating. Avoid inhalation or ingestion.

Additional Information:

For Hercules Material Safety Data Sheets by fax anytime, day or night, just call 1-800-942-INFO (1-800-942-4636) from any Touch-Tone phone. Have your fax number ready. Checking the product label for the correct MSDS # will save time.