

# **OSHA-Required Health And Safety Information!**

This Material Safety Data Sheet (MSDS) was requested moments ago from Hercules Automated Fax Information System. Please forward it immediately to the person in charge of MSDS's, or retain it at the machine until claimed.

Section 1

## MATERIAL SAFETY DATA SHEET # 19 *R-D Root Destroyer*





Date Prepared:	te Prepared: 1/31/1990 Last Reviewed: 11/12/2004				Hercules Chemical Company Inc. 111 South Street		
Meets OSHA 29 CFR 1910.1200					<ul> <li>Passaic NJ 07055</li> <li>Phone (800) 221-9330</li> <li>Fax (800) 333-3456</li> </ul>		
Section 2 - Hazardous Ingredients/Identity Information							
Hazardous Compor Common Name(s),	•••	•	OSHA PEL	ACGIH TLV	Other Limits	Upper Bound Limit if SARA Reportable	
Copper Sulphate I	Pentahydrate (	7758-99-8)	1.0mg/M <sup>3</sup>	1.0mg/M³(Dust/Mist	) N/A	98%	

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

Section 3 - Physical/C	Chemical Characteristics					
Boiling Point (°F):		Specific Gravity (H2O = 1):	Vapor Densit <u>:</u> (Air = 1):	Vapor Pressur (mm Hg):		
N/A		2.284	N/A	N/A		
Melting Point (° F):	Evaporation Rate: (Butvl Acetate = 1)	Solubility in Water:				
N/A	N/A	Dissolves in water (24.2qm/100gm at 30° C)				
Appearance And Color: Blue granular crystals.		Odor: No odor				
Section 4 - Fire And	Explosion Hazard Data					
Flash Point:		-	Flammable Limits LEI	L: UEL:		
Non-flammable		1	N/A			

Extinguishing Media: Does not burn or support combustion.

#### Special Firefighting Procedures:

Use extinguishing media as appropriate for surrounding fire. Use CO2, dry chemical, or water. Avoid direct water stream on molten material, splattering may occur.

#### Unusual Fire And Explosion Hazards:

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.

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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 Decomposi	ition: Above 600° C S02 may evolve; none at normal process temperature and pressure.	
Hazardous Polymeriza	tion: 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	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 - Contr	ol Measures:					
Respiratory Protec						
Where the possibility of dust exists, use NIOSH/MSHA approved dust mask.						
Ventilation: Local	Ventilation: Local Exhaust Adequate Special N/A					
Mecha	anical N/A O	Other:	N/A			
Gloves:	Rubber					
Eye Protection:	Chemical goggles where splashing possible.					
Other Protective Clothing:	News					
Work/Hygienic Practice: Use good personal hygiene. Wash hands before eating. Avoid inhalation or ingestion.						
Additional Inform	nation:					



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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.