



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
200	Fire Hazard 0	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification			Page Number: 1
Common Name/ Trade Name	Cupric Hydroxide	Catalog Number(s).	YY990, C1921
		CAS#	20427-59-2
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	GL7600000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA 8(b) inventory: Cupric Hydroxide
Commercial Name(s)	Not available.	CI#	Not available.
Synonym	Kocide Cupric Hydroxide Technical; Copper (ii) Hydroxide	DI GLOT O	
Chemical Name	Cupric Hydroxide		<u>F EMERGENCY</u> <u>C (24hr) 800-424-9300</u>
Chemical Family	Not available.	CALL (310)	516-8000
Chemical Formula	CU(OH)2		
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		-

Section 2.Composition and Information on Ingredients						
		Exposure Limits				
Name		CAS#	TWA (mg/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight
1) Cupric Hydroxide		20427-59-2	1			100
Toxicological Data on Ingredients ORAL (LD50): Acute: 1000 mg/kg [Rat]. DERMAL (LD50): Acute: >3160 mg/kg [Rabbit].						

Section 3. Hazards Identification			
Potential Acute Health Effects	Hazardous in case of eye contact (irritant). Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.		
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys, liver, upper respiratory tract, skin, eyes. Repeated or prolonged exposure to the substance can produce target organs damage.		

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Section 4. First Aid Measures		
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. WARM water MUST be used. Get medical attention.	
Skin Contact	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.	
Serious Skin Contact	Not available.	
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	
Serious Inhalation	Not available.	
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.	
Serious Ingestion	Not available.	

Section 5. Fire and Ex	Section 5. Fire and Explosion Data		
Flammability of the Product	Non-flammable.		
Auto-Ignition Temperature	Not applicable.		
Flash Points	Not applicable.		
Flammable Limits	Not applicable.		
Products of Combustion	Not available.		
Fire Hazards in Presence of Various Substances	Not applicable.		
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.		
Fire Fighting Media and Instructions	Not applicable.		
Special Remarks on Fire Hazards	Not available.		
Special Remarks on Explosion Hazards	Not available.		

Section 6. Accidental Release Measures		
Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.	
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.	

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Section 7. Handling and Storage		
Precautions	Do not ingest. Do not breathe dust. Avoid contact with eyes. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as acids.	
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Hygroscopic Air Sensitive	

Section 8. Exposure Controls/Personal Protection		
Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.	
Personal Protection	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.	
Exposure Limits	TWA: 1 (mg/m³) as copper dusts or mists. from ACGIH (TLV) [United States] TWA: 1 (mg/m³) as copper dusts or mists. from NIOSH [United States] TWA: 1 (mg/m³) as copper dusts or mists. [Canada]	
	Consult local authorities for acceptable exposure limits.	

Section 9. Physical a	nd Chemical Properties		
Physical state and appearance	Solid. (Powdered solid.)	Odor	Odorless.
Molecular Weight	97.56 g/mole	Taste	Characteristic copper odor
pH (1% soln/water)	7.8 [Basic.]	Color	Blue. (Light.)
Boiling Point	Not available.		
Melting Point	Decomposition temperature: 80℃ (176年)		
Critical Temperature	Not available.		
Specific Gravity	3.37 (Water = 1)		
Vapor Pressure	Not applicable.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	Dispersed in cold water to form a suspension. Decomposes in hot water.		
Solubility	Insoluble in cold water. Soluble in acids, ammonium hydroxide, concentrated alkali (when freshly precipitated), potassium cyanide.		

Section 10. Stability and Reactivity Data				
The product is stable.				
Not available.				
Excessive heat, incompatible materials. Stability is also dependent on method of preparation. May decompose to black copper oxide on standing a few days or on heating.				
Reactive with acids.				
Not available.				
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Special Remarks on Reactivity	Hygroscopic. Air Sensitive. Many copper salts form dangerous acetylides. The copper acetylides formed in ammonical or caustic solutions with cupric salts and acetylene are more explosive than those derived from cuprous salts. Copper salts promote the decomposition of hydrazine. Cupric salts are not compatible with sodium hypobromite. Solutions of sodium hypobromite are decomposed by powerful catalytic action of cupric ions, even as impurities. Salts of copper are incompatible with nitromethane.
Special Remarks on Corrosivity	Not available.
Polymerization	Will not occur.

Section 11. Toxicological Information				
Routes of Entry	Inhalation. Ingestion.			
Toxicity to Animals	Acute oral toxicity (LD50): 1000 mg/kg [Rat]. Acute dermal toxicity (LD50): >3160 mg/kg [Rabbit].			
Chronic Effects on Humans	Not available.			
Other Toxic Effects on Humans	Hazardous in case of eye contact (irritant). Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.			
Special Remarks on Toxicity to Animals	Not available.			
Special Remarks on Chronic Effects on Humans	Not available.			
Special Remarks on other Toxic Effects on Humans				

Section 12. Ecological Information				
Ecotoxicity	Not available.			
BOD5 and COD	Not available.			
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.			
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.			
Special Remarks on the Products of Biodegradation	Not available.			

Cupric Hydroxide Page Number: 5 Section 13. Disposal Considerations Vaste Disposal Waste must be disposed of in accordance with federal, state and local environmental control regulations. Section 14. Transport Information **DOT Classification** Not a DOT controlled material (United States). Identification Not applicable. **Special Provisions for** Not applicable. Transport DOT (Pictograms) Section 15. Other Regulatory Information and Pictograms

Federal and State TSCA 8(b) inventory: Cupric Hydroxide Regulations California prop. 65: This product contains the following ingredients for which the State of California ha California Proposition 65 found to cause cancer which would require a warning under the statute: No products were found. **Varnings** California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found. **Other Regulations** EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 243-815-9). Canada: Listed on Canadian Domestic Substance List (DSL). China: Listed on National Inventory. Japan: Listed on National Inventory (ENCS). Korea: Listed on National Inventory (KECI). Philippines: Not listed on National Inventory (PICCS). Australia: Listed on AICS. CLASS D-2B: Material causing other toxic effects (TOXIC). Other Classifications WHMIS (Canada) DSCL (EEC) R22- Harmful if swallowed. S46- If swallowed, seek medical advice R36- Irritating to eyes. immediately and show this container or label. Health Hazard 2 HMIS (U.S.A.) **National Fire Protection** Flammability **Association (U.S.A.)** Fire Hazard 0 Health Reactivity Reactivity 0 Personal Protection Specific hazard E WHMIS (Canada) (Pictograms) **DSCL** (Europe) (Pictograms)

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TDC (Canada)		

TDG (Canada (Pictograms)



ADR (Europe) (Pictograms)



Protective Equipment



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent.



Splash goggles.

Section 16. Other Information			
MSDS Code	C0067		
References	Not available.		
Other Special Considerations	Not available.		
Validated by Sonia Owen on 10/22/2012.		Verified by Sonia Owen. Printed 10/22/2012.	

CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.