



MATERIAL SAFETY DATA SHEET

5100 W. Henrietta Rd.
West Henrietta, NY 14586
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MSDS No. 9411104 9411106
Effective Date: December 1, 2005

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Copper (II) Sulfate, Anhydrous	416-984-3000 0 2 0 NFPA Health 2 Flammability 0 Reactivity 0
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HAZARD RATING

Minimal 0 Slight 1 Moderate 2 Serious 3 Severe 4

WHMIS

Serious 3 Severe 4

SECTION II DANGEROUS INGREDIENTS

Name	%	TLV Units
Cupric sulfate	> 99%	TWA: 1 mg/m ³ dust.
WARNING!		

SECTION III PHYSICAL DATA

Melting Point (°C)	340°C	Specific Gravity (H ₂ O = 1)	2.28 @ 15.6°C
Boiling Point (°C)	Decomposes.	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (= 1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Appreciable.		
Appearance & Odor	Off white powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash point	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Firefighting Procedures					

Use dry chemical, CO₂, alcohol foam, or water spray. In fire conditions, fire-fighters should wear an appropriate mask or a self-containing breathing apparatus.

Flammability and Explosion Hazards	
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Fire or excessive heat may produce hazardous decomposition products to be produced as dust or fume.

TDG	Environmentally hazardous substance UN 3077
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. For laboratory use only. Not for drug, food or household use. Keep out of reach of children. Printed on recycled paper.

Cal #1

SECTION V REACTIVITY DATA CC0531

Chemical Stability	Yes X	If no, under what conditions?
	No	
Incompatible with Other products	Yes X	Alkalies, phosphates, acetylene, hydrazine and nitromethane.
	No	

Hazardous Decomposition Products	Oxides of sulfur, copper fumes.
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Reactive under what conditions	Slowly effloresces in air.
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SECTION VI TOXICOLOGICAL PROPERTIES

Route of Entry	Ingestion. Inhalation. Skin contact. Eyes.
TLV	TWA: 1 mg/m ³ dust; 0.2 mg/m ³ fumes.
Toxicity for animals	LD50: 300 mg/kg oral-rat.
Chronic effects on humans	Exposure of the eyes to a low level of dust can produce eye irritation. Skin exposure can produce skin destruction or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage. Target organs: Liver, kidneys, lungs, spleen.
Acute effects on humans	Harmful if inhaled or swallowed. Causes irritation to skin and eyes.

SECTION VII PREVENTIVE MEASURES

Waste Disposal	Discharge, treatment, or disposal may be subject to local laws. Consult your local or regional authorities.
Storage	Keep container dry. Keep in a cool place. Keep container tightly closed. Keep away from acids, oxidizers, alkalies, heat, moisture.
Precautions	Avoid contact with skin and eyes. DO NOT breathe dust. DO NOT ingest. If ingested, seek medical advice immediately.
Spill or leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Protective Clothing	Safety glasses, lab coat, dust respirator, gloves.

SECTION VIII FIRST AID MEASURES

Specific first aid measures	Ingestion: Call physician or Poison Control Center immediately. Induce vomiting only if advised by the appropriate medical personnel. Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention. Skin contact: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Allow victim to rest in a well ventilated area. Seek immediate medical attention.
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SECTION IX PREPARATION OF THE MSDS

Rev. No.	3	Date	December 1, 2005	Approved	Michael Raszeja
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