


**MATERIAL SAFETY DATA SHEET**

5100 W. Henrietta Rd.  
West Henrietta, NY 14586  
TEL: (866) 260-0501

MSDS No. 9411104 9411106  
Effective Date: December 1, 2005

**SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE**

Product	Copper (II) Sulfate, Anhydrous	<p>416-984-3000</p>  <p>HAZARD RATING Minimal Slight Moderate Serious Severe 0 1 2 3 4</p> <p>WHMIS Serious Severe 3 4</p>
Chemical Synonyms	Cupric Sulfate, Anhydrous	
Formula	CuSO <sub>4</sub>	
CAS No.	7758-98-7	

**SECTION II DANGEROUS INGREDIENTS**

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

**SECTION III PHYSICAL DATA**

Melting Point (°C)	340°C	Specific Gravity (H <sub>2</sub> 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, CO <sub>2</sub> , 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**

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

**TDG Environmentally hazardous substance UN 3077**

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 <input checked="" type="checkbox"/> No <input type="checkbox"/>	If no, under what conditions?
Incompatible with Other products	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Alkalies, phosphates, acetylene, hydrazine and nitromethane.
Hazardous Decomposition Products	Oxides of sulfur, copper fumes.	
Reactive under what conditions	Slowly effloresces in air.	

**SECTION VI TOXICOLOGICAL PROPERTIES**

Route of Entry	Ingestion. Inhalation. Skin contact. Eyes.
TLV	TWA: 1 mg/m <sup>3</sup> dust; 0.2 mg/m <sup>3</sup> 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.
-----------------------------	--

**SECTION IX PREPARATION OF THE MSDS**

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