Smith Scien C111-113

MATERIAL SAFETY DATA SHEET

ScholAR™ Chemistry
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MSDS No. 9701906 9702004 9702006 9702009
Effective Date: December 1, 2005

SECTION I NAME

24 HOUR EMERGENCY ASSISTANCE

416-984-3000

Product	Copper (II) Chloride, Anhydrous
Chemical Synonyms	Cupric Chloride, Anhydrous
Formula	$CuCl_2$
CAS No.	7447-39-4

NFPA: 0 / 3 / 1

Health	3
Flammability	0
Reactivity	1

HAZARD RATING — WHMIS

Minimal 0 | Slight 1 | Moderate 2 | Serious 3 | Severe 4

SECTION II DANGEROUS INGREDIENTS

Name	%	TLV Units
Cupric chloride, anhydrous	> 98%	TWA: 0.2 mg/m^3 as Cu fume
DANGER! CORROSIVE!		

SECTION III PHYSICAL DATA

Melting Point (°C)	498°C	Specific Gravity (H_2O = 1)	3.39
Boiling Point (°C)	Decomposes.	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	0	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	70.6 g/100 cc water @ 0°C		
Appearance & Odor	Yellow-brown crystalline 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_2, 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 **Class 8 Corrosive solid. UN2802**

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SECTION V REACTIVITY DATA

CC0510

Chemical Stability	Yes	X	If no, under what conditions?
	No		
Incompatible with Other products	Yes	X	Potassium, sodium, nitromethane, hydrazine, sodium hypobromine and alkali metals. In presence of moisture, copper chloride can corrode metals.
	No		
Hazardous Decomposition Products	Hydrogen chloride and copper oxide.		
Reactive under what conditions	Excessive moisture and heat, exposure to air.		

SECTION VI TOXICOLOGICAL PROPERTIES

Route of Entry	Ingestion. Inhalation.
TLV	TWA: 0.2 mg/m^3 as Cu fume; TWA: 1 mg/m^3 as Cu dust.
Toxicity for animals	LD50: 584 mg/kg oral-rat.
Chronic effects on humans	Repeated or prolonged exposure to the substance can produce target organ damage. Target organs: Respiratory system, liver, kidneys.
Acute effects on humans	Very dangerous in case of eye contact (irritant), of inhalation. Slightly dangerous to dangerous in case of skin contact. May be fatal if swallowed.

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.
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. Wash spill area with soap and water.
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.	4	Date	December 1, 2005	Approved	Michael Raszeja