| ScholAR™ | |
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| Chemistry | |

MATERIAL SAFETY DATA SHEET SECTION V

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MSDS No.

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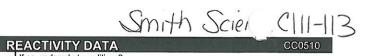
| SECTION | | NAME | 24 | + H | OUR | EMERGE | :NCY | A5515 | IANCE | |
|--|-------------------|--|---------------------------|-----------------------------------|---|---------------------------------|--------------|-------------------------|-------------|--|
| Product | Copper (II | <mark>) Chloride</mark> , Anhydrous | | | 416-98 | 34-3000 | | Hea | Ith 3 | |
| Chemical Synonyms | Cupric Ch | loride, Anhydrous | | _ | NI | =PA 3 0 | 1 | Flammabil | ity 0 | |
| Formula | CuCl ₂ | | | | 0.0000000000000000000000000000000000000 | V ARD RATIN | | Reactiv WHMIS | النث | |
| CAS No. | 7447-39-4 | | | | Minima 0 | I Slight Mo | oderate 2 | Serious 3 | Severe 4 | |
| SECTION | 10 | DANGEROL | JS INGR | EC | DIENT | 3 | | | | |
| Name | | <u> </u> | | | | % | | TLV Un | its | |
| Cupric | chloride, anhyd | Irous | | | | > 98% | TWA | : 0.2 mg/m ³ | as Cu fume | |
| | | | - Constant | | | 3888 | | | | |
| DANGER! CORROSIVE! | | | | | | | | | | |
| | | | | | | | | | | |
| SECTION | | PHYSICAL E | DATA | | | | NO PO | | | |
| Melting Point | (°C) | 498°C | | | pecific Gravity (H ₂ O = 1) | | | 3.39 | | |
| Boiling Point | (°C) | Decomposes. | | Percent Volatile by Volume (%) | | | N/A | | | |
| Vapor Pressu | ıre (mm Hg) | 0 | | | Evaporation Rate (=1) | | | N/A | | |
| Vapor Density (Air=1) N/A | | | | | | | | | | |
| Solubility in Water 70.6 g/100 cc water @ 0° | | | | | | | | | - | |
| Appearance & Odor Yellow-brown crystalline p | | | | er; n | o odor. | | | | | |
| SECTION | IV | FIRE AND E | XPLOS | 101 | N HAZ | ARD DA | | | | |
| Flash point | Non-flar | mmable. | Flammable I % by Volum | | s in Air N/A | | Lower | | Upper | |
| Firefighting Procedures | | Use dry chemical, C fire-fighters should v breathing apparatus | wear an app | l foa | m, or wa riate mas | ter spray. In k or a self-co | fire con | nditions, | | |

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

TDG Class 8 Corrosive solid. UN2802

Flammability and **Explosion Hazards**

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.



| | Chemical | Yes | Х | If no, under what conditions? | | | | |
|----|--|--|-------|--|--|--|--|--|
| | Stability | No | | | | | | |
| E | Incompatible with Other products | Yes No | X | Potassium, sodium, nitromethane, hydrazine, sodium hypobromine and alkali metals. In presence of moisture, copper chloride can corrode metals. | | | | |
| | Hazardous Decomposition Products | Hydrogen chloride and copper oxide. | | | | | | |
| | Reactive under what conditions | Excessive moisture and heat, exposure to air. | | | | | | |
| | SECTION VI | | Ţ | OXICOLOGICAL PROPERTIES | | | | |
| | Route of Entry | Ingestion. Inhalation. | | | | | | |
| me | TLV | TWA: 0. | .2 m | g/m³ as Cu fume; TWA: 1 mg/m³ as Cu dust. | | | | |
| | Toxicity for animals | LD50: 5 | 84 n | ng/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 | | P | REVENTIVE 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, se 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 | | FI | RST AID MEASURES | | | | |
| | Specific first aid measures | Ingestion | | tall physician or Paigan Control Control control immediately. Induse you like a pluif | | | | |
| | | 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 | 100 ma | DE | EPARATION OF THE MSDS | | | | |
| | Day No. 1 | | UT LA | LEFARTION OF THE WISDS | | | | |

Rev. No. 4 Date December 1, 2005 Approved Michael Raszeja