



LTS Research Laboratories, Inc.  
Safety Data Sheet  
Copper (I) Chloride

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1. Product and Company Identification

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Trade Name: Copper (I) Chloride  
Chemical Formula: CuCl  
Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.  
Street: 37 Ramland Road  
City: Orangeburg  
State: New York  
Zip Code: 10962  
Country: USA  
Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)  
+1-703-527-3887 (International)

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2. Hazards Identification

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Signal Word: Danger



Hazard Statements:

H302: Harmful if swallowed

Precautionary Statements:

P264: Wash thoroughly after handling  
P270: Do not eat, drink or smoke when using this product  
P330: Rinse mouth  
P301+P312: If swallowed: Call a poison center/ doctor if you feel unwell  
P501: Dispose of contents/container in accordance with local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2  
Flammability: 0  
Physical: 1

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3. Composition

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Chemical Family: Salt  
Additional Names: Copper (I) chloride, Cuprous chloride

Gold chloride (AuCl<sub>3</sub>):  
Percentage: 100 wt%  
CAS #: 7758-89-6  
EC #: 231-842-9

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#### 4. First Aid Procedures

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General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Seek medical attention.
Skin:	Wash affected area with mild soap and water. Remove any contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

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#### 5. Firefighting Measures

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Flammability:	N/A
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for surrounding material and type of fire.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products.

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#### 6. Accidental Release Measures

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If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.

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#### 7. Handling and Storage

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Handling Conditions:	Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.

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#### 8. Exposure Controls and Personal Protection

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Permissible Exposure Limits:	None
Threshold Limit Value:	None
Special Equipment:	None
Respiratory Protection:	Dust Respirator
Protective Gloves:	Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.

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## 9. Physical and Chemical Characteristics

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Color	Grey
Form:	Powder
Odor:	Odorless
Water Solubility:	Slightly soluble
Boiling Point:	1490 °C
Melting Point:	430 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	4.14 g/cc
Molecular weight:	98.999 g/mol

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## 10. Reactivity

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Stability:	Stable under recommended storage conditions
Reacts with:	Bases, Oxidizing agents, Water, Light
Incompatible Conditions:	Metals, Strong Oxidizing agents
Hazardous Decomposition Products:	Hydrogen Chloride

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## 11. Toxicological Information

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Potential Health Effects:	
Eyes:	Causes serious burns
Skin:	Causes severe burns
Ingestion:	Strong corrosive effect on mouth and throat; danger of perforation esophagus and stomach
Inhalation:	Causes severe burns
Chronic:	N/A
Signs & Symptoms:	N/A
Aggravated Medical Conditions:	N/A
Median Lethal Dose:	336 mg/kg (rat)
Carcinogen:	N/A

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## 12. Ecological Information

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Aquatic Toxicity:	Moderate
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment.

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## 13. Disposal Considerations

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Dispose of in accordance with local, state, national, and international regulations.

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#### 14. Transportation Data

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Hazardous: Hazardous for transportation.



Hazard Class: 8 Corrosive substances  
Packing Group: III  
UN Number: UN2802  
Proper Shipping Name: Corrosive solid, acidic, inorganic, n.o.s. (Copper (I) Chloride)  
Segregation Group: Acids

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#### 15. Regulatory Information

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Sec 302 Extremely Hazardous: No  
Sec 304 Reportable Quantities: N/A  
Sec 313 Toxic Chemicals: No

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#### 16. Other Information

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This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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