

# MATERIAL SAFETY DATA SHEET

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## SECTION 1 Product Identification

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**CHEMICAL NAME:** Copper(I) chloride

**CAS #:** 7758-89-6 97

**FORMULA:** CuCl

**SYNONYM:** Cuprous chloride

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## SECTION 2 Composition and Information on Ingredients

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INGREDIENT:	CAS #	%	ACGIH (TWA)	OSHA (PEL)
Title Compound	7758-89-6 97	97	no data	no data

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## SECTION 3 Hazards Identification

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**EMERGENCY OVERVIEW:** Mutation data

**PRIMARY ROUTES OF EXPOSURE:** Eyes, Skin, Inhalation, Ingestion

**EYE CONTACT:** Corrosive, contact causes severe eye burns which may result in permanent tissue and corneal damage.

**SKIN CONTACT:** Corrosive causes skin burns and severe irritation.

**INHALATION:** Corrosive, causes severe respiratory tract and mucous membrane irritation.

**INGESTION:** Toxic. Corrosive and may cause severe and permanent damage to mouth, throat, and stomach.

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## SECTION 4 First Aid Measures

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**EYE EXPOSURE:** Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

**SKIN EXPOSURE:** Wash affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

**INHALATION:** Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.

**INGESTION:** Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

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## SECTION 5 Firefighting Measures

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**FLASH POINT:** no data

**AUTO IGNITION TEMPERATURE:** no data

**EXPLOSION LIMITS:** no data

**EXTINGUISHING MEDIUM:** Use an extinguisher suitable for the other materials involved.

**SPECIAL FIREFIGHTING PROCEDURES:** no data

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** no data

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** none known

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## SECTION 6 Accidental Release Measures

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**SPILL AND LEAK PROCEDURES:** Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Refer to section 13 for disposal requirements. Do not allow material to enter drains or streams.

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## SECTION 7 Handling and Storage

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**HANDLING AND STORAGE:** Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, and incompatible substances. Keep container tightly closed when not in use. Product is light sensitive.

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## SECTION 8 Exposure Controls and Personal Protection

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**EYE PROTECTION:** Always wear approved safety glasses w/side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

**SKIN PROTECTION:** Chemical-resistant.

**VENTILATION:** If possible, handle the material in an efficient fume hood.

**RESPIRATOR:** If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

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## SECTION 9 Physical and Chemical Properties

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**COLOR AND FORM:** Cream to pale green solid

**MOLECULAR WEIGHT:** 99.00

**MELTING POINT (DEG. C.):** 619-620°C

**BOILING POINT:** 1490°C

**VAPOR PRESSURE:** 0.75 mbar @ 546°C

**SPECIFIC GRAVITY:** no data

**SOLUBILITY IN WATER:** 0.06 g/L @ 25°C (77°F)

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## SECTION 10 Stability and Reactivity

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**CONDITIONS TO AVOID:** Sunlight or other strong light

**INCOMPATIBILITY:** Oxidizing agents. Acetylenic compounds. Peroxides.

**DECOMPOSITION PRODUCTS:** Hydrogen chloride

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## **SECTION 11 Toxicological Information**

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**RTECS DATA:** Oral - rat LD50: 140 mg/kg; Oral - mouse LD50: 347 mg/kg; Inhalation - mouse LC50: 1008 mg/m<sup>3</sup>;  
Subcutaneous - guinea pig LD50: 100 mg/kg

**MUTAGENIC EFFECTS:** no data

**TETRATOGENIC EFFECTS:** no data

**CARCINOGENIC EFFECTS:** no data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

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## **SECTION 12 Ecological Information**

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**ECOLOGICAL INFORMATION:** No information available

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## **SECTION 13 Disposal Considerations**

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**DISPOSAL:** Dispose of in according to local state and federal regulations.

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## **SECTION 14 Transportation Information**

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Copper Chloride, Class 8, Un 2802, PG III

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## **SECTION 15 Regulatory Information**

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**TSCA:** Listed in the TSCA inventory

**SARA (TITLE 313):** Title compound listed

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## **SECTION 16 Other Information**

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