



MATERIAL SAFETY DATA SHEET

Manufacturer: Strem Chemicals, Inc
7 Mulliken Way
Newburyport, MA 01950-4098 U.S.A.
www.strem.com

Strem Customer Service (978) 499-1600
CHEMTREC (Emergency Only) (800) 424-9300
Poison Center (800) 562-8236

Section 1: Product Identification

Chemical Name: Copper (I) cyanide, 99%
Product Number: 93-2916
CAS Registry Number: 544-92-3
Formula: CuCN
EINECS Number: 208-883-6
Chemical Family: metal cyanide
Synonym: Cuprous cyanide

Section 2: Composition and Information on Ingredients

Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title Compound	544-92-3	100%	1mg/m3 (as Cu)	1mg/m3 (as Cu)

Section 3: Hazards Identification

Emergency Overview: Harmful if swallowed. May be irritating to skin, eyes and respiratory tract.
Primary Routes of Exposure: Ingestion, inhalation, skin, eyes
Eye Contact: May cause mild irritation of the eyes.
Skin Contact: May cause slight to mild irritation of the skin. May be fatal through skin absorption.
Inhalation: Dust may be fatal if inhaled.
Ingestion: Harmful if swallowed. May be fatal if ingested.
Acute Health Affects: May be irritating to skin, eyes and respiratory tract. May be fatal if inhaled, swallowed, or absorbed through the skin.
Chronic Health Affects: The dust of copper compounds may cause metal fume fever, hemolysis of the red blood cells and injury to the liver, lungs, kidneys and pancreas.
NTP: No
IARC: No
OSHA: No

SECTION 4: First Aid Measures

Eye Exposure: Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention.
Skin Exposure: Wash the 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 attention 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: Fire Fighting Measures

Flash Point: not applicable
Autoignition Temperature: none
Explosion Limits: none
Extinguishing Medium: carbon dioxide, foam or dry powder
Special Fire Fighting Procedures: If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self- contained breathing apparatus and full protective clothing.
Hazardous Combustion and Decomposition Products: If involved in a fire this material may emit toxic fumes.
Unusual Fire or Explosion Hazards: No unusual fire or explosion hazards.

SECTION 6: Accidental Release Measures

Spill and Leak Procedures: Small spills can be mixed with vermiculite, sodium carbonate or other suitable non combustible adsorbent and swept up.

SECTION 7: Handling and Storage

Handling and Storage: Store in a cool place in a tightly sealed container away from moisture.

SECTION 8: Exposure Controls and Personal Protection

Eye Protection: Always wear approved safety glasses when handling a chemical substance in the laboratory.
Skin Protection: Wear protective clothing and gloves.
Ventilation: Material may form a fine dust. If possible, handle the material in an efficient fume hood.
Respirator: If 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 1910.134.
Ventilation: Material may form a fine dust. If possible, handle the material in an efficient fume hood.
Additional Protection: No additional protection required.

SECTION 9: Physical and Chemical Properties

Color and Form: off-white to pale green pwdr.
Molecular Weight: 89.56
Melting Point: 473°C (N2)
Boiling Point: dec.
Vapor Pressure: not applicable
Specific Gravity: 2.92
Odor: none
Solubility in Water: Insoluble

SECTION 10: Stability and Reactivity

Stability: air sensitive
Hazardous Polymerization: no hazardous polymerization
Conditions to Avoid: contact with mineral acids
Incompatibility: Mineral acids, oxidizing agents and active metals
Decomposition Products: cyanide fumes, nitrogen oxides, and copper oxide.



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SECTION 11: Toxicological Information

RTECS Data: Oral (rat); LD50: 1365 mg/kg.
Carcinogenic Effects: No data
Mutagenic Effects: No data
Tetratogenic Effects: No data

SECTION 12: Ecological Information

Ecological Information: Avoid release to the environment. Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

SECTION 13: Disposal Considerations

Disposal: Dispose of according to local, state and federal regulations.

SECTION 14: Transportation

Shipping Name (CFR): Copper cyanide
Hazard Class (CFR): 6.1
Additional Hazard Class (CFR): NA
Packaging Group (CFR): II
UN ID Number (CFR): UN# 1587
Shipping Name (IATA): Copper cyanide
Hazard Class (IATA): 6.1
Additional Hazard Class (IATA): NA
Packaging Group (IATA): II
UN ID Number (IATA): UN# 1587

SECTION 15: Regulatory Information

TSCA: Listed in the TSCA inventory.
SARA (Title 313): Title compound: See category codes N100 and N106 for reporting.
Second Ingredient: None
Third Ingredient: None

SECTION 16: Other Information

Disclaimer: The information herein is believed to be accurate and reliable as of the date compiled. However, Strem Chemicals, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information contained in this document or any use of the product based on this information.
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