

上海华亭化工厂有限公司

SHANGHAI HUATING CHEMICALS FACTORY CO.,LTD

Material Safety Data Sheet

Copper(II) chloride, anhydrous MSDS

Section 1: Chemical Product and Company Identification

Product Name:: Copper(II) chloride, anhydrous

Synonyms: Cupric chloride

Company name: Shanghai Huating Chemicals Factory Co.,ltd

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Section 2 Composition, Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
7447394	Copper(II) chloride, anhydrous	99%	2312102

Hazard Symbols: T N

Risk Phrases: 25 36/37/38 50/53

Section 3 Hazards Identification

EMERGENCY OVERVIEW

Toxic if swallowed. Irritating to eyes, respiratory system and skin. Very toxic to aquatic organisms, may cause longterm adverse effects in the aquatic environment.

Potential Health Effects

Eye: Causes eye irritation.

Skin: Causes skin irritation. May be harmful if absorbed through the skin.

Ingestion: May cause irritation of the digestive tract. Toxic if swallowed.

Inhalation: Causes respiratory tract irritation. May be harmful if inhaled.

Chronic:

Section 4 First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid immediately. Wash mouth out with water.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately.

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If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively.

Section 5 Fire Fighting Measures

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible.

Extinguishing Media: Use extinguishing media most appropriate for the surrounding fire.

Section 6 Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Wear a self-contained breathing apparatus and appropriate personal protection. (See Exposure Controls, Personal Protection section). Do not let this chemical enter the environment.

Section 7 Handling and Storage

Handling: Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Use only in a chemical fume hood.

Storage: Store in a cool, dry place. Store in a tightly closed container. Store under argon.

Section 8 Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

CAS# 7447394:

Russia: 0.5 mg/m³ TWA (aerosol, as Cu)

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 Physical and Chemical Properties

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Physical State: Crystalline powder

Color: brown fine

Odor: odorless

pH: 3 (50 g/L aq.sol (20°C))

Vapor Pressure: Not available

Viscosity: Not available

Boiling Point: 993 deg C @760mmHg (1,819.40°F)

Freezing/Melting Point: 498 deg C (928.40°F)

Autoignition Temperature: Not available

Flash Point: Not available

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

Decomposition Temperature:

Solubility in water: 620 g/l (20°C)

Specific Gravity/Density: Not available.

Molecular Formula: Cl₂Cu

Molecular Weight: 134.45

Section 10 Stability and Reactivity

Chemical Stability: Hygroscopic: absorbs moisture or water from the air.

Conditions to Avoid: Incompatible materials, exposure to moist air or water.

Incompatibilities with Other Materials Strong oxidizing agents, alkali metals.

Hazardous Decomposition Products Hydrogen chloride.

Hazardous Polymerization Has not been reported.

Section 11 Toxicological Information

RTECS#: CAS# 7447394:

GL7000000

LD50/LC50: RTECS:

CAS# 7447394:

Oral, mouse: LD50 = 233 mg/kg;

Oral, rat: LD50 = 584 mg/kg;

Oral, rat: LD50 = 140 mg/kg;

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Other:

Carcinogenicity: Copper(II) chloride, anhydrous Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

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Section 12 Ecological Information

Ecotoxicity: Daphnia: Daphnia: EC50 = 0.04 mg/l; 48H; .
Fish: Carp: LC50 = 0.120 0.130 mg/l; 96H; .
Fish: Bluegill/Sunfish: LC50 = 0.9 mg/l; 96H; .
Fish: Rainbow trout: LC50 = 0.08 mg/l; 96H; .
Algae: EC50 = 0.12 mg/l; 96H; .
Algae: EC50 = 0.2 mg/l; 96H; .
Other: Do not empty into drains. Not readily biodegradable.

Section 13 Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	COPPER CHLORIDE	COPPER CHLORIDE	COPPER CHLORIDE
Hazard Class:	8	8	8
UN Number:	2802	2802	2802
Packing Group:	III	III	III

USA RQ: CAS# 7447394:
10 lb final RQ; 4.54 kg final RQ
Severe Marine Pollutant

Section 15 Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: T N

Risk Phrases:

R 25 Toxic if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 50/53 Very toxic to aquatic organisms, may cause longterm adverse effects in the aquatic environment.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 29 Do not empty into drains.

S 37/39 Wear suitable gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the

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label where possible).

S 57 Use appropriate containment to avoid environmental contamination.

WGK (Water Danger/Protection)

CAS# 7447394: 2

Canada

CAS# 7447394 is listed on Canada's DSL List

US Federal

TSCA

CAS# 7447394

is listed on the TSCA Inventory.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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