



Safety Data Sheet

1. IDENTIFICATION

Product Identifier: Cupric Acetate, Monohydrate

Product Code(s): NC-0301, C1045, C1061

Synonyms: Copper (II) Acetate, Monohydrate; Acetic Acid, Copper (II) Salt, Monohydrate.

Recommended Use: For manufacturing, industrial, and laboratory use only. Use as a catalyst or as a laboratory

reagent.

Uses Advised Against: Not for food, drug, or household use.

Supplier: The Science Company 7625 W Hampden Ave #14 Lakewood CO 80227

Phone: (303) 777-3777 Fax: (303) 777-3331

Emergency Phone Number: (800) 255-3924 (CHEM-TEL)

2. HAZARDS IDENTIFICATION

Hazard Classifications: Acute Toxicity – Oral: Category 4

Skin Corrosion/Irritation: Category 1B
Eye Damage/Irritation: Category 1

Signal Word: DANGER

Hazard Statements: Harmful if swallowed.

Causes severe skin burns and eye damage.

Causes serious eye damage.

Pictograms:



Precautionary Statements:

Prevention: Wash thoroughly after handling.

Do not eat, drink, or smoke while using this product.

Do not breathe dusts.

Wear protective gloves, protective clothing, eye protection, and face protection.

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Response: Immediately call a poison center or doctor.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Wash contaminated clothing before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present

and easy to do. Continue rinsing.

Storage: Store locked up.

Disposal: Dispose of contents and container in accordance with local, regional, national, and

international regulations.

Hazards Not Otherwise

Classified:

Very toxic to aquatic life with long lasting effects.

Toxicity Statement: Not applicable.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

| Component | Common Name / Synonyms | CAS# | Chemical Formula | % by Weight |
|-----------------------------|----------------------------------|-----------|---|-------------|
| Cupric Acetate, Monohydrate | Copper (II) Acetate, Monohydrate | 6046-93-1 | CuC ₄ H ₆ O ₄ • H ₂ O | > 98.0 |

Trade Secret Statement: Not applicable.

4. FIRST AID MEASURES

First Aid Procedures:

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. Call a physician if symptoms occur.

Ingestion: Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that vomit does

not enter lungs. Never give anything by mouth to an unconscious person. Call a physician

or poison control center immediately.

Skin Contact: Wash skin with plenty of water for at least 15 minutes. Remove contaminated clothing and

shoes. Wash clothing before reuse. Get medical attention if symptoms occur.

Eye Contact: Check for and remove contact lenses, if present and easy to do. Immediately flush eyes with

gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids

occasionally. Get medical attention if symptoms occur.

General Advice: Poison information centers in each state can provide additional assistance for scheduled

poisons. Ensure that those providing first aid and medical personnel are aware of the

material(s) involved and take precautions to protect themselves.

Symptoms and Effects: Inhalation may cause headache, metal fume fever, shortness of breath, and coughing.

Ingestion may cause headache, nausea, nausea, vomiting, abdominal pain, diarrhea, cold sweat, weak pulse, convulsions, paralysis, shock, and coma. Skin contact may cause irritation and burns. Eye contact may cause irritation and burns. Prolonged or repeated exposure may cause liver effects, kidney effects, hepatic cirrhosis, brain damage, brain demyelination, and allergic reaction; may cause jaundice, copper deposition in the cornea,

and renal failure.

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Immediate Medical Care/ Special Treatment: Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water spray, dry powder, alcohol resistant foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream, as it may scatter and spread fire.

Hazardous Combustion

Products:

Carbon oxides, cupric oxides.

Specific Hazards: Excessive thermal conditions may cause decomposition and yield hazardous combustion

products listed above.

Special Protective Equipment/

Precautions for Firefighters:

As in any fire, wear MSHA/NIOSH-approved (or equivalent), self-contained, positive-

pressure or pressure-demand breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Protective Equipment:

Ventilate area of leak or spill. Avoid generation of product dust. Isolate hazard area and keep unnecessary and unprotected personnel away from the area of the leak or spill. Keep upwind. Wear appropriate personal protective equipment (see Section 8). Avoid contact with

eyes, skin, and clothing.

Emergency Procedures: In case of chemical emergency, or if unsure how to address an accidental release, consult a

professional (see Section 1).

Methods for Containment: Prevent entry into waterways, sewer, basements, or confined areas. Product should not be

released to the environment. Contain and recover waste when possible.

Methods for Cleanup:Sweep up or collect spill and place in a non-combustible container for reclamation or

disposal. Do not flush to sewer. Clean contaminated surface thoroughly. Residues from spills can be diluted with water. Never return spills in original containers for reuse. Clean up

in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Handling: Wear personal protective equipment (see Section 8). Provide sufficient air exchange and/or

exhaust in work rooms. Avoid contact with skin, eyes, and clothing. Avoid generation of dust. Do not breathe product dust. Avoid exposure to moisture. Do not ingest. When using, do not eat, drink, or smoke. Keep away from incompatible materials (see Section 10). Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Containers of this material may be hazardous when empty, as they retain

product residues. Observe all warnings and precautions listed for this product.

Storage: Store in a cool, dry, ventilated area. Store away from heat and incompatible materials (see

Section 10). Store in original container. Keep containers tightly closed and upright. Keep away from food, drink, and animal foodstuffs. Keep out of the reach of children. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and

disposal of this product.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits: Copper: ACGIH (TLV): 1 mg/m³

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Engineering Controls: Ensure adequate ventilation. Ventilation rates should be matched to conditions. If

> applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not

been established, maintain airborne levels to an acceptable level.

Personal Protective Measures:

Eye/Face Protection: Wear safety glasses with side shields or safety goggles. Wear a face shield. Maintain

approved eye wash station and accessible rinse facilities in work area.

Skin Protection: Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical

resistant gloves.

Respiratory Protection: An air-purifying, NIOSH-approved respirator with an organic vapor cartridge or canister may

be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Use a positive-pressure, air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are unknown, or if any other circumstances exist where air-purifying respirators may not provide adequate protection.

Specific Requirements

Ensure that glove material is compatible with this product. This information is available from

glove manufacturers.

for Personal Protective **Equipment:**

PHYSICAL AND CHEMICAL PROPERTIES 9.

Unless otherwise indicated, all properties are given at 25 °C and standard pressure.

Appearance: Greenish-blue, opaque, crystalline solid.

Odor: Odorless.

Odor Threshold: No information found.

Formula Weight: 199.65

5.2 - 5.5 (20 g/L aqueous at 20 °C) pH:

Melting/Freezing Point: 115 °C **Boiling Point/Range:** 240 °C

Decomposition Temperature: No information found.

Not applicable. Flash Point: **Auto-ignition Temperature:** Not applicable. Flammability: Not flammable. Flammability/Explosive Limits: Not applicable.

Solubility: Soluble in water, alcohol.

Vapor Pressure: No information found. Vapor Density: No information found.

Specific Gravity: 1.88 (Water = 1)

Evaporation Rate: No information found. Viscosity: No information found. **Partition Coefficient** No information found.

(n-octanol/water):

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10. STABILITY AND REACTIVITY

Reactivity Data: No information found.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Excessive heat, direct sunlight, incompatible materials.

Incompatible Materials: Oxidizers, reducers, hydrazine, nitromethane, acetylene.

Hazardous Decomposition

Products:

Carbon oxides, cupric oxides.

Possibility of Hazardous

Reactions:

May react vigorously or violently with the incompatible materials listed above. Excessive

thermal conditions may yield hazardous decomposition products.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure: Inhalation, ingestion, skin contact, eye contact.

Acute Effects: Harmful if swallowed or exposed to the skin or eyes. May be harmful if inhaled.

Chronic Effects: Prolonged or repeated exposure may cause liver effects, kidney effects, hepatic cirrhosis,

brain damage, brain demyelination, and allergic reaction.

Toxicological Data: LD₅₀ Oral, Rat: 710 mg/kg

Causes severe skin irritation based on animal data.

Symptoms of Exposure: Irritation, burns, headache, nausea, vomiting, coughing, abdominal pain, diarrhea, metal

fume fever, shortness of breath, cold sweat, weak pulse, jaundice, convulsions, paralysis,

coma, copper deposition in the cornea, renal failure, shock.

Carcinogenic Effects: This product is not considered to cause cancer by IARC, ACGIH, NTP, or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicological Data: LC₅₀ Fathead Minnow (Pimephales promelas): 0.39 mg/L, 96 h

Persistence and Degradability: Bioconcentration Factor: >100

Environmental Effects: Very toxic to aquatic life. Avoid exposure to the environment.

13. DISPOSAL INFORMATION

Disposal Instructions: Dispose of this material and its container to an approved waste collection point. Minimize

exposure to product waste (see Section 8). Do not dispose unused waste down drains or into sewers. All wastes must be handled in accordance with local, state, and federal $\frac{1}{2}$

regulations.

Contaminated Packaging:Because emptied containers may retain product residue, follow label warnings even after

container is emptied. Offer rinsed packaging material to local recycling facilities.

Waste Codes: No information found.

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14. TRANSPORT INFORMATION

DOT:

UN Number: UN3077

Proper Shipping Name: Environmentally hazardous substances, solid, n.o.s. (Copper acetate)

Hazard Class: 9

Packing Group: III

ERG Number: 171

Environmental Hazard IMDG: Marine Pollutant **Regulations:** TDG: Marine Pollutant

Other Transport Precautions: DOT Reportable Quantity: 100 lb

15. REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA: This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Inventory: All components of this product are on the U.S. TSCA Inventory.

U.S. EPCRA (SARA Title III):

Section 302: No information found.

Sections 311/312:

| Hazard Category | List (Yes/No) | |
|----------------------------------|---------------|--|
| Section 311 – Hazardous Chemical | Yes | |
| Immediate Hazard | Yes | |
| Delayed Hazard | Yes | |
| Fire Hazard | No | |
| Pressure Hazard | No | |
| Reactivity Hazard | No | |

Section 313: Cupric Acetate Monohydrate

CERCLA Reportable Quantities: Cupric Acetate, Monohydrate: 100 lb

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International Inventories:

| Country or Region | Inventory Name | On Inventory (Yes/No)* |
|-------------------|--|------------------------|
| Australia | Australian Inventory of Chemical Substances (AICS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | Yes |
| Korea | Existing Chemicals List (ECL) | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |

^{*}A "Yes" indicates that the listed components of this product comply with the inventory requirements administered by the governing country or region.

16. OTHER INFORMATION

Disclaimer:

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Reason for Revision: Not applicable.

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