# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Copper (II) 2,2,6,6-tetramethyl-3,5-heptanedionate**

PRODUCT NUMBER: 1596-1

CAS NUMBER: 14040-05-2

SYNONYMS: $Cu(TMHD)_2$ ; 2,2,6,6-Tetramethyl-3,5-heptanedionecopper(II) derivative; Bis(2,2,6,6-tetramethyl-3,5-heptanedionato)copper(II)

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## SECTION 2 HAZARDS IDENTIFICATION

**CLASSIFICATION OF SUBSTANCE OR MIXTURE**

Pictogram

Signal Word **Warning**

**Hazard Statements**

| | |
|---|---|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |

**Precautionary Phrases**

| | |
|---|---|
| P261 | Avoid breathing dust/fume/gas/mist/vapors/spray. |
| P264 | Wash skin thoroughly after handling. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P304+P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with waster for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. |
| P362 | Take off contaminated clothing and wash before reuse. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

**HMIS CLASSIFICATION:**
Health: 2 Fire: 0 Reactivity Hazard: 0
**NFPA RATING:**
Health: 2 Flammability: 0 Reactivity Hazard: 0

**EYE CONTACT:** May cause slight to mild irritation of the eyes.
**SKIN CONTACT:** May cause slight to mild irritation of the skin.
**INHALATION:** May be irritating to the nose, mucous membranes, and respiratory tract.
**INGESTION:** Ingestion of copper compounds may lead to vomiting, exhaustion, anemia, convulsions, and coma.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $Cu(C_{11}H_{19}O_2)_2$

Molecular Weight: 430.08

| CHEMICAL NAME | CAS# | % |
|---|---|---|
| Copper (II) 2,2,6,6-tetramethyl-3,5-heptainedionate | 14040-05-2 | 100 |

## SECTION 4 FIRST AID MEASURES

**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 plenty of water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.
**INHALATION:** Remove to fresh air and keep at rest. 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.

## SECTION 5 FIREFIGHTING MEASURES

**FLASH POINT:** Not available
**AUTO IGNITION TEMPERATURE:** Not available
**EXPLOSION LIMITS:** Product does not present an explosion hazard.
**EXTINGUISHING MEDIUM:** Carbon dioxide, extinguishing powder, or water spray. Fight large fires with water spray or alcohol resistant foam.
**SPECIAL FIRE FIGHTING PROCEDURES**: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS**: Carbon oxides and copper oxides

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid the formation of dust. Avoid breathing vapors, mist, gas, or dust.
**ENVIRONMENTAL PRECAUTIONS:** Prevent spillage from entering drains or allowing to be released into the environment.
**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Mix spills with vermiculite or sodium carbonate. Sweep up and place in suitable container for proper disposal.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Use with adequate ventilation. Avoid formation of dusts and aerosols.
**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

**EXPOSURE CONTROLS:**

| Component | Exposure Limits | Basis | Entity |
|---|---|---|---|
| Copper (II) (2,2,6,6-tetramethyl-3,5-heptanedionate) | 1 mg/m$^3$ | TWA | NIOSH |

**EYE PROTECTION**: Wear chemical safety glasses or goggles and face shield.
**SKIN PROTECTION**: Wear nitrile or rubber gloves, and a complete suit protecting against chemicals.
**VENTILATION:** Provide local exhaust, preferably mechanical.
**RESPIRATOR:** Use an approved respirator.
**ADDITIONAL PROTECTION:** Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**COLOR AND FORM:** Purple-Blue solid
**ODOR:** None
**MOLECULAR WEIGHT:** 430.08
**BOILING POINT**: 315°C (Decomposes)
**MELTING POINT:** 198°C
**SPECIFIC GRAVITY:** No data available
**VAPOR DENSITY:** No data available
**SOLUBILITYIN WATER:** Insoluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable
**HAZARDOUS POLYMERIZATION:** Will not occur
**CONDITIONS TO AVOID**: Contact with strong reducing metals, acetylene, and azides.
**INCOMPATIBILITY:** Oxidizing agents, reducing metals, acetylene, and azides.
**DECOMPOSITION PRODUCTS**: Carbon oxides and copper oxides

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** Not available
**CARCINOGENIC EFFECTS:** No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.
**MUTAGENIC EFFECTS:** Not available
**TETRATOGENIC EFFECTS:** Not available
**RTECS:** No data

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

## SECTION 12 ECOLOGICAL DATA

No data available.

## SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

## SECTION 14 TRANSPORTATION DATA

Not a dangerous good.

## SECTION 15 REGULATORY INFORMATION

**TSCA:** Not listed in the TSCA inventory
**SARA 302/304:** Not Listed
**SARA 311/312:** Acute Health Hazard
**SARA (TITLE 313):** Copper (II) (2,2,6,6-tetramethyl-3,5-heptanedionate)
**CALIFORNIA PROP. 65:** Not Listed
**MASSACHUSETTS RIGHT TO KNOW COMPONENTS:** No components are subject to the Massachusetts Right to Know Act.
**NEW JERSEY RIGHT TO KNOW COMPONENTS:** Copper (II) (2,2,6,6-tetramethyl-3,5-heptanedionate)
**PENNSYLVANIA RIGHT TO KNOW COMPONENTS:** Copper (II) (2,2,6,6-tetramethyl-3,5-heptanedionate)

## SECTION 16 OTHER INFORMATION

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