

# SAFETY DATA SHEET

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## SECTION 1. IDENTIFICATION

**Product Name:** Copper(I) Hexafluoroacetylacetonate 1,5-cyclooctadiene Complex

**Product Number:** All applicable American Elements product codes, e.g. CU-FACA15C-01-P

**CAS #:** 86233-74-1

**Relevant identified uses of the substance:** Scientific research and development

**Supplier details:**

American Elements  
10884 Weyburn Ave.  
Los Angeles, CA 90024  
Tel: +1 310-208-0551  
Fax: +1 310-208-0351

**Emergency telephone number:**

+1 800-424-9300

## SECTION 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Skin Corrosion/irritation:**

Category 2

**Serious Eye Damage/Eye Irritation:**

Category 2

**Specific target organ toxicity (single exposure):**

Category 3

**Target Organs:**

Respiratory system.

**Label Elements**

Signal Word: Warning

**Pictogram**



GHS07

Hazard Statements:

Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation

Precautionary Statements

Prevention:

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Inhalation:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Skin:

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

Storage:

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal:

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC):

None identified

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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component:

Copper(I) hexafluoro-2,4-pentanedionate

1,5-cyclooctadiene complex

CAS-No:

86233-74-1

Weight:

< 100%

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## SECTION 4. FIRST AID MEASURES

General Advice:

If symptoms persist, call a physician.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact:

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

Inhalation:

Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

Notes to Physician:

Treat symptomatically

Ingestion:

Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

Most important symptoms and effects:

None reasonably foreseeable.

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## SECTION 5. FIREFIGHTING MEASURES

Unsuitable Extinguishing Media: No information available

Flash Point: No information available

Method: No information available

Autoignition Temperature: No information available

Explosion Limits

Upper: No data available

Lower: No data available

Sensitivity to Mechanical Impact: No information available

Sensitivity to Static Discharge: No information available

Specific Hazards Arising from the Chemical:

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products:

None known

Protective Equipment and Precautions for Firefighters:

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

NFPA

Health: 2

Flammability: 1

Instability: 0

Physical Hazards: -

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions:**

Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

### **Environmental Precautions:**

Should not be released into the environment. See Section 12 for additional ecological information.

### **Methods for Containment and Clean Up:**

Keep in suitable, closed containers for disposal. Sweep up or vacuum up spillage and collect in suitable container for disposal.

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## **SECTION 7. HANDLING AND STORAGE**

### **Handling:**

Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

### **Storage:**

Keep containers tightly closed in a dry, cool and well-ventilated place.

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## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Exposure Guidelines**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### **Engineering Measures:**

Ensure that eyewash stations and safety showers are close to the workstation location.

### **Personal Protective Equipment**

#### **Eye/face Protection:**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### **Skin and body protection:**

Long sleeved clothing.

#### **Respiratory Protection:**

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.

#### **Hygiene Measures:**

Handle in accordance with good industrial hygiene and safety practice.

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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: Solid

Appearance: Yellow

Odor: Odorless  
Odor Threshold: No information available  
pH: No information available  
Melting Point/Range: 93 - 100 °C / 199.4 - 212 °F  
Boiling Point/Range: 60 °C / 140 °F  
Flash Point: No information available  
Evaporation Rate: Not applicable  
Flammability (solid,gas): No information available  
Flammability or explosive limits  
Upper: No data available  
Lower: No data available  
Vapor Pressure: No information available  
Vapor Density: Not applicable  
Specific Gravity: No information available  
Solubility: No information available  
Partition coefficient; n-octanol/water: No data available  
Autoignition Temperature: No information available  
Decomposition Temperature: No information available  
Viscosity: Not applicable

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## **SECTION 10. STABILITY AND REACTIVITY**

Reactive Hazard:  
None known, based on information available

Stability:  
Stable under normal conditions.

Conditions to Avoid:  
Incompatible products.

Incompatible Materials:  
Strong oxidizing agents

Hazardous Decomposition Products:  
None under normal use conditions

Hazardous Polymerization:  
Hazardous polymerization does not occur.

Hazardous Reactions:  
None under normal processing.

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## **SECTION 11. TOXICOLOGICAL INFORMATION**

Acute Toxicity  
Product Information:  
Component Information:  
Toxicologically Synergistic: No information available  
Products:

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation: No information available  
Sensitization: No information available

Carcinogenicity:

Component: Copper(I) hexafluoro-2,4-pentanedionate 1,5-cyclooctadiene complex

CAS-No: 86233-74-1

IARC: Not listed

NTP: Not listed

ACGIH: Not listed

OSHA: Not listed

Mexico: Not listed

Mutagenic Effects: No information available

Reproductive Effects: No information available.

Developmental Effects: No information available.

Teratogenicity: No information available.

STOT - single exposure: Respiratory system

STOT - repeated exposure: None known

Aspiration hazard: No information available

Symptoms / effects, both acute and delayed: No information available

Endocrine Disruptor Information: No information available

Other Adverse Effects: The toxicological properties have not been fully investigated.

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Do not empty into drains.

Persistence and Degradability: Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation: No information available.

Mobility: Will likely be mobile in the environment due to its volatility.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Waste Disposal Methods:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

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## SECTION 14. TRANSPORT INFORMATION

DOT: Not regulated

TDG: Not regulated

IATA: Not regulated

IMDG/IMO: Not regulated

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## SECTION 15. REGULATORY INFORMATION

All of the components in the product are on the following Inventory lists:

X = listed

### International Inventories

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base

Production and Site Reports (40 CFR 710(B)).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

### U.S. Federal Regulations

TSCA 12(b): Not applicable

SARA 313: Not applicable

SARA 311/312: Hazard Categories See section 2 for more information

CWA (Clean Water Act): Not applicable

Clean Air Act: Not applicable

OSHA: Not applicable

CERCLA: Not applicable

California Proposition 65: This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations: Not applicable

### U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant: N

DOT Severe Marine Pollutant: N

### U.S. Department of Homeland Security:

This product does not contain any DHS chemicals

### Other International Regulations:

Mexico - Grade No information available

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## SECTION 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED

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