

Safety Data Sheet AKC262
Date of issue: 01/04/2016 Version: 1.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form : Substance
Physical state : Solid

Substance name : COPPER(II) 2,2,6,6-TETRAMETHYL-3,5-HEPTANEDIONATE

Product code : AKC262
Formula : C22H38CuO4

Synonyms : COPPER TMHD; CUPRIC DIPIVALOYLMETHANE

Chemical family : METAL COMPOUND

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Chemical intermediate

For research use only

### 1.3. Details of the supplier of the safety data sheet

### **GELEST, INC.**

11 East Steel Road Morrisville, PA 19067

USA

T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST

info@gelest.com - www.gelest.com

### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

## **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

# GHS-US classification

Eye Irrit. 2A H319

Full text of H-phrases: see section 16

### 2.2. Label elements

## **GHS-US labeling**

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H319 - Causes serious eye irritation

Precautionary statements (GHS-US) : P280 - Wear protective gloves/protective clothing/eye protection/face protection

P264 - Wash hands thoroughly after handling

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing P337+P313 - If eye irritation persists: Get medical advice/attention

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

No data available

### **SECTION 3: Composition/Information on ingredients**

### 3.1. Substance

Substance type : Mono-constituent

Name : COPPER(II) 2,2,6,6-TETRAMETHYL-3,5-HEPTANEDIONATE

CAS No : 14040-05-2

Name	Product identifier	%	GHS-US classification
Copper(II) 2,2,6,6-tetramethyl-3,5-heptanedionate	(CAS No) 14040-05-2	95 - 100	Eye Irrit. 2A, H319

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### 3.2. Mixture

Not applicable

## **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures general : Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek

medical advice immediately (show the label where possible). If possible show this sheet; if not

available show packaging or label.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel

unwell, seek medical advice.

First-aid measures after skin contact : Wash with plenty of soap and water. Get medical advice/attention.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Get medical advice/attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause irritation to the respiratory tract.

Symptoms/injuries after skin contact : May cause skin irritation.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : No information available.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Foam. Carbon dioxide. Dry chemical.

Unsuitable extinguishing media : None known.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Irritating fumes and organic acid vapors may develop when material is exposed to elevated

temperatures or open flame.

### 5.3. Advice for firefighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Avoid contact with skin and eyes. Do not breathe dust.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

### 6.1.1. For non-emergency personnel

Protective equipment : Wear protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with

proper protection. For further information refer to section 8: "Exposure controls/personal

protection".

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

## 6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe dust. Avoid dust formation. Provide local

exhaust or general room ventilation to minimize exposure to dust.

Hygiene measures : Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild

soap and water before eating, drinking or smoking and when leaving work.

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### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.

Incompatible materials : Oxidizing agent.

Storage area : Store in a well-ventilated place. Store away from heat.

### 7.3. Specific end use(s)

No additional information available

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

USA ACGIH ACGIH TWA (mg/m³) 1 mg/m³ as Cu

8.2. Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation.

Personal protective equipment : Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be

available in the immediate vicinity of any potential exposure.

Hand protection : Neoprene or nitrile rubber gloves.

Eye protection : Chemical goggles. Contact lenses should not be worn.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended. NIOSH-certified dust and mist (teal cartridge) respirator.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline solid.

Molecular mass : 430.09 g/mol

Color : Purple.

Odor : No data available
Cdor threshold : No data available
Refractive index : No data available
pH : No data available

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : 198 °C

Freezing point : No data available

Boiling point : 100 °C @ 0.1 mm Hg sub

Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : > 315 °C

Flammability (solid, gas) : No data available

Vapor pressure : < 0.01 mm Hg @ 25°C

Relative vapor density at 20 °C : No data available

Relative density : No data available

VOC content : < 3 %

Solubility : Insoluble in water.

Organic solvent:Soluble: THF

Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosion limits : No data available

### 9.2. Other information

No additional information available

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# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### **Chemical stability** 10.2.

Stable.

#### 10.3. Possibility of hazardous reactions

No additional information available

### **Conditions to avoid**

Heat. Open flame. Sparks.

### Incompatible materials

Oxidizing agent.

### **Hazardous decomposition products**

Copper oxide fumes. Organic acid vapors.

### SECTION 11: Toxicological information

### Information on toxicological effects

: Not classified Acute toxicity Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization Not classified Germ cell mutagenicity Not classified Carcinogenicity : Not classified : Not classified Reproductive toxicity Specific target organ toxicity (single exposure) : Not classified Not classified

Specific target organ toxicity (repeated

exposure)

Aspiration hazard

Not classified

Symptoms/injuries after inhalation May cause irritation to the respiratory tract.

Symptoms/injuries after skin contact May cause skin irritation. Symptoms/injuries after eye contact Causes serious eye irritation. Symptoms/injuries after ingestion No information available. Reason for classification : Expert judgment

### **SECTION 12: Ecological information**

### 12.1. **Toxicity**

No additional information available

### Persistence and degradability

No additional information available

#### 12.3. **Bioaccumulative potential**

No additional information available

#### 12.4. **Mobility in soil**

No additional information available

# Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.

Dispose in a safe manner in accordance with local/national regulations. Dispose of solid Waste disposal recommendations

materials or residues at a licensed site.

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

# **UN** number

Not regulated for transport.

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### 14.2. UN proper shipping name

Not applicable

### 14.3. Additional information

Other information

: No supplementary information available.

### Transport by sea

No additional information available

### Air transport

No additional information available

## **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

### COPPER(II) 2,2,6,6-TETRAMETHYL-3,5-HEPTANEDIONATE (14040-05-2)

TSCA Exemption/Exclusion

CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States.

### Copper(II) 2,2,6,6-tetramethyl-3,5-heptanedionate (14040-05-2)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

No additional information available

## 15.3. US State regulations

COPPER(II) 2,2,6,6-TETRAMETHYL-3,5-HEPTANEDIONATE(14040-05-2)				
U.S California - Proposition 65 - Carcinogens List	No			
U.S California - Proposition 65 - Developmental Toxicity	No			
U.S California - Proposition 65 - Reproductive Toxicity - Female	No			
U.S California - Proposition 65 - Reproductive Toxicity - Male	No			

### Copper(II) 2,2,6,6-tetramethyl-3,5-heptanedionate (14040-05-2)

U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	No	No	

## **SECTION 16: Other information**

Abbreviations and acronyms

: Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemcial Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development.

### Full text of H-phrases::

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
H319	Causes serious eye irritation

### **HMIS III Rating**

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 2 Moderate Hazard
Physical : 0 Minimal Hazard

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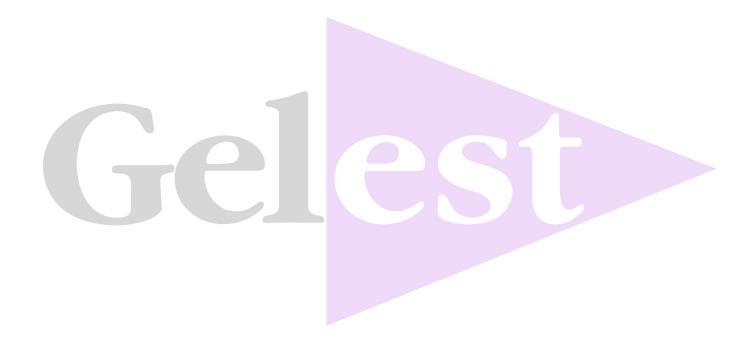
Prepared by safety and environmental affairs.

SDS US (GHS HazCom 2012) - Custom

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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