

GHS Safety Data Sheet

SDS No. : CUE01PAEG

Date Issued : 2010/03/16

Last updated : 2025/06/10

Section 1. Identification of the substance or mixture and of the supplier

Product Information

Product name: Cu Copper Powder

Product number:	Purity	Form	Size (mm) or Shape
CUE01PB	99%up(2Nup)	powder	180 pass
CUE02PB	99%up(2Nup)	powder	75~150
CUE03PB	99%up(2Nup)	powder	75 pass
CUE04PB	99.9%(3N)	powder	180 pass
CUE05PB	99.9%(3N)	powder	75~150
CUE06PB	99.9%(3N)	powder	75 pass
CUE08PB	99.99%(4N)	powder	ca. 1
CUE09PB	99.999%(5N)	powder	850 pass
CUE10PB	99%up(2Nup)	powder	150 pass
CUE11PB	99.9%up(3Nup)	powder	75 pass
CUE12PB	99.9%(3N)	powder	ca. 5
CUE13PB	99.9%(3N)	powder	45 pass
—	—	powder	Various sizes

Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.
 1-28, 5-chome, Chiyoda, Sakado-shi, Saitama Japan 350-0284
 Phone: +81-49-284-1511 Fax: +81-49-284-1351
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Recommended uses and restrictions on use: For research purposes

Section 2. Hazards identification

GHS Classification

Health Hazards	Environmental Hazards	Physical Hazards
Sensitization, skin ; Category 1A Specific target organ toxicity, single exposure ; Category 1,3	No data available	Not classified.

GHS Label:

Pictograms or symbols



Warning word: DANGER

Hazard information

May cause an allergy skin reaction

Description of precaution

Wear protective gloves/protective clothing/eye
 protection/respiratory protection/face protection during handling.

Causes damage to organs
May cause respiratory irritation

Avoid breathing dust/mist/gas/fume/vapor/spray. Do not eat, drink or smoke when using this product, and wash hands thoroughly after handling.

Take off the contaminated clothing and wash before reuse.

Contaminated work clothing should not be allowed out of the workplace.

Use only outdoors or in well-ventilated area.

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

IF ON SKIN: Remove immediately all contaminated clothing and rinse skin with water/shower. Then wash skin with plenty of soap and water. If skin irritation occurs, get medical advice/attention.

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

Protect from sunlight. Store in a cool, dry and well-ventilated place.

Keep container tightly closed.

Store locked up.

Dispose of contents/ container in accordance with local/national regulations.

Section 3. Composition / information on ingredients

Chemical or common name:	Copper
Chemical formula:	Cu
Single Substance or Compound:	Single substance
Composition:	100%
CAS #:	7440-50-8
RTECS#:	GL5325000
TSCA inventory :	listed
EINECS:	2311596

Section 4. First aid measures

Eye contact:	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.
Skin contact:	Promptly flush contaminated skin with soap or mild detergent and water. Contact physician if irritation continues.
Inhalation:	Remove the exposed person immediately and provide fresh air. Get medical attention.
Ingestion:	Rinse mouth and throat with water. Get medical attention immediately.

Section 5. Fire fighting measures

Extinguishing media:	Use media appropriate for surrounding fire.
Fire fighting	The product cannot catch fire. Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire.

Section 6. Accidental release measures

Personal	Workers should use protective wears to prevent contact with the spilt
Precautions:	adhesive and inhalation of its dust/ fume.
Environmental hazard precautions:	Shut off leak if without risk.

Prevent flow out to river, etc. so as not to badly affect.

Method for containment and cleaning up:

Indoor leakage: Ventilate as much as possible until the cleaning is completed.

Outdoor leakage: Work from the windward and evacuate the leeward crowd.

Gather up, pack in closed DOT-approved waste container as much as possible.

Carefully collect remnant and move to a safe place.

Section 7. Handling and storage

Precautions to be taken in handling:

Safe handling: Use protective wears and local ventilation equipment, if inhalation or skin contact is foreseen.

Avoid prolonged or repeated exposure.

General precautions: Store the material in a sealed container.

Store in a cool, dry, well ventilated and dark place away from incompatible materials.

Keep container or bottle tightly closed.

Section 8. Exposure controls / personal protection

Precautions to be taken in storage:

Exposure guideline: ACGIH (2024): Dusts and mists 1 mg/m³ (as Cu) , Fume 0.2 mg/m³ (as Cu)
OSHA (2006): Dusts and mists 1 mg/m³ (as Cu) , Fume 0.1 mg/m³ (as Cu)

Facility measures: Local ventilation of closed work room or total proper ventilation to prevent inhalation.

Protective ware: Wear appropriate NIOSH/MSHA-approved respirator, safety goggles, impervious gloves, protective wear, protective boots etc.

Section 9. Physical and chemical properties

Appearance: Reddish, lustrous solid, odorless.

Chemical formula: Cu

Atomic weight: 63.55

Melting point: 1083.4 °C

Boiling point: 2567 °C

Density: 8.96 g/cm³

Solubility: Water: Insoluble

Dissoluble: Nitric acid, conc. sulfuric acid.

Flammability: non-flammable substance

Oxidation: None

Section10. Stability and reactivity

Stability: Stable in closed container.

Reactivity

Incompatibility: Strong acids, strong oxidizing agent, acid chlorides, halogens.

Condition to avoid: Air, moisture.

Hazardous decomposition products.: Copper oxide (by heating)

Section 11. Toxicological information

Acute toxicity:	GHS : No data available
Skin corrosive / irritation:	GHS : No data available
Serious eyes damage / eye irritation:	GHS : No data available
Respiratory sensitization:	GHS : No data available
Skin sensitization:	GHS : Category 1A ; May cause an allergy skin reaction.
Germ cell mutagenicity:	GHS : No data available
Carcinogenicity:	GHS ; Not classified.; Falls below the lowest level. Cu EPA(1991) class D (Not classifiable as to human carcinogenicity)
Reproductive toxicity:	GHS ; No data available
Specific target organ toxicity —single exposure:	GHS : Category 1 ; Causes damage to organs (digestive organ), Category 3 ; May cause respiratory irritation
Specific target organ toxicity —repeated exposure:	GHS : No data available
Aspiration hazard:	GHS : No data available

Section 12. Ecological information

Ecotoxicity:	
Hazards to the aquatic environment	
short-term (acute) hazard:	GHS : No data available
long-term (chronic) hazard:	GHS : No data available
Hazardous to the ozone layer:	GHS : No data available No Freon or Halon
Fish toxicity:	No data available
Degradability:	No data available
Bioaccumulative potential:	Cu biological half-life 80 day, Rate of absorption oral=0.28, Respiratory tract=0.39
Mobility in soil:	No data available

Section 13. Disposal considerations

Disposal method:	User of the product should contract with the local government or licensed 'Industrial Waste Haulers' for disposal of waste.
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Section 14. Transport information

UN classification:	Non-hazards
UN number:	None
HS code:	7406.10
Marine pollution:	None
Precautions:	Container should be transported in a secure position, in a well-ventilated vehicle.

Section 15. Regulatory information

TSCA inventory : listed.

Please refer to any other local / national measures that may be relevant.

Section 16. Other information

This SDS is for provision of information, and it does not represent a guarantee the properties or safeties of the product.

The information herein is based on the references we could obtained and the present state of our knowledge, however, this SDS does not always cover all information about the product.

Some new information or amendments may be added afterwards.

Prior to use, please investigate the laws and regulations of the organization, area and country where the product is to be used. The information is intended to ordinary usage, in case of special handling, sufficient care should be taken.