

GHS Safety Data Sheet

SDS No. : CUA02PAEG

Date Issued : 2019/10/11

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

Product Information

Product name: Cu-Zn(65:35%) Copper-zinc alloy brass

Product	Purity	Form	Size or Shape
CUA03PB	—	powder	150µm pass

Company Information:

Manufacturer : Kojundo Chemical Laboratory Co., Ltd.
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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
Serious eye damage/eye irritation: Category 2 Skin sensitization: Category 1 Specific target organ toxicity, single exposure: Category 1,3	Hazardous to the aquatic environment, acute toxicity: Category 1 chronic toxicity: Category 1	Flammable solids: Not classified Pyrophoric solids: Not classified Self-heating substances and mixtures: Not classified

GHS Label: C, W, V



Pictograms or symbols:

Warning word: DANGER

Hazard information	Description of precaution
Causes serious eye irritation May cause an allergy skin reaction Causes damage to organs (digestive system) May cause respiratory irritation Very toxic to aquatic life Very toxic to aquatic life with long lasting effects	Wear protective gloves/protective clothing/eye protection/respiratory protection/face protection during handling. Avoid breathing dust/mist/gas/fume/vapors/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. Avoid release to the environment and collect spillage. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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.



High Purity Materials

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Section 3. Composition / information on ingredients

Single Substance or Mixture: Mixture

Composition :

Product Name	Content by wt%	
	Cu	Zn
Cu-Zn(65:35%)	65	35

Ingredients information :

Hazardous Ingredients		Cas No.	RTECS No.	TSCA Inventory	EINECS
Copper	Cu	7440-50-8	GL5325000	listed	2311596
Zinc	Zn	7440-66-6	ZG8600000	listed	2311753

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.
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Section 5. Fire fighting measures

Extinguishing media:

Use media appropriate for surrounding fire.

Fire fighting: The product is not combustible.

Self-contained breathing apparatus and full protective clothing should be used, if the material is involved in fire.

Section 6. Accidental release measures

Personal Precautions:

Workers should use protective wears to prevent contact with the spilt adhesive and inhalation of its vapor/dusts.

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.

Precautions to be taken in storage:

General precautions: Store the material in a sealed container.

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



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Section 8. Exposure controls / personal protection

Exposure guideline:	Chemical Name	ACGIH(2019) TLV-TWA mg/m ³	OSHA(2006) PEL-TWA mg/m ³
	Copper (dusts and mists)	1	1

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, protective gloves.

Section 9. Physical and chemical properties

Color and Form: Ocher metallic powder

Ingredients Name	Formula	Atomic Weight	Melting Point(°C)	Boiling Point(°C)	Density (g/ cm ³)	Water Solubility
Copper	Cu	63.5	1083.4	2567	8.96	insoluble
Zinc	Zn	65.4	419	907	7.13	insoluble

Flammable: Non-combustible substance

Oxidation: None

Section10. Stability and reactivity

Stability: Stable in closed container.

Reactivity

Incompatibility: Cu Strong acids, strong oxidizing agents, acid chlorides, halogens.
Zn Amines, cadmium, chlorinated solvents, sulfur, strong acids, strong bases.

Section11. Toxicological information

Acute toxicity(Oral, Inhalation):	GHS : Not classified.; Falls below the lowest level. Zn oral rat LD ₅₀ > 2000 mg/kg (OECD Guideline 401; Initial Risk Assessment Report(NITE, CERI, NEDO) (2007)) Acute toxicity estimate ATEmix = 2000 mg/kg Zn Inhalation: dusts and mists rat LC ₅₀ > 5410 mg/m ³ (OECD Guideline 401; Initial Risk Assessment Report(NITE, CERI, NEDO) (2007)) Acute toxicity estimate ATEmix = 5410 mg/m ³
Skin corrosive / irritation:	GHS : No data available Zn : Not classified.
Serious eye damage / irritation:	GHS : Category 2 ; Causes serious eye irritation Zn : Category 2B
Respiratory sensitization:	GHS : No data available
Skin sensitization:	GHS : Category 1 ; May cause an allergy skin reaction Cu : Category 1A Zn : Not classified.
Germ cell mutagenicity:	GHS : No data available
Carcinogenicity:	GHS : No data available
Reproductive toxicity:	GHS : No data available
Specific target organ toxicity	
– single exposure:	GHS : Category 1 ; Causes damage to organs (digestive system) Category 3 ; May cause respiratory irritation Cu : Category 1 (digestive system), Category 3 (respiratory tract irritation)
– repeated exposure:	GHS : No data available
Aspiration hazard:	GHS : No data available



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Section12. Ecological information

Ecotoxicity:

Hazardous to the aquatic environment

– acute toxicity: GHS ; Category 1 ; Very toxic to aquatic life

Zn : Category 1

Algae(Pseudokirchneriella subcapitata) ErC50 (72hr)= 0.15 mg /L
(EHC(2001))

– chronic toxicity: GHS ; Category 1 ; Very toxic to aquatic life with long lasting effects

Zn : Category 1

Hazardous to the ozone layer: GHS : No data available

No Freon or Halon

Fish toxicity: See above

Degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Section13. Disposal considerations

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

Section 14. Transport information

UN number: 3077

IATA shipping name: Environmentally hazardous substance, solid, n.o.s.

IATA hazard class: Class 9 (Miscellaneous dangerous substances and articles)

IATA packing group: III

HS code: 7406.10

Marine pollution: Yes

Section 15. Regulatory information

TSCA inventory: Cu, Zn listed.

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

Section 16. Other information

The information described above is believed to be correct. However, Kojundo Chemical Lab. makes no representation, warranty nor guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.

