

# Safety Data Sheet — GHK-Cu

Product code: GHK-Cu · GHS Revision 7 · OSHA HazCom 29 CFR 1910.1200 · Version 1.1 — 08 October 2026

## 1. Identification

|                          |                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------|
| Product name             | GHK-Cu                                                                                                     |
| Synonyms / catalog codes | Copper tripeptide-1; glycyl-L-histidyl-L-lysine copper(II) complex; CAS 89030-95-5                         |
| Recommended use          | Laboratory research agent for in vitro and animal-model studies. For research use only (RUO).              |
| Restrictions on use      | NOT for human or veterinary use. Not a drug, food, cosmetic, or dietary supplement. Not for household use. |
| Supplier                 | BioLabs Research — operated by LEEDS MARKETING GROUP LTD (Companies House #16057409) · biolabsresearch.co  |
| Address                  | 33 W 19th Street, 4th Floor, New York, NY 10011, USA                                                       |
| Telephone                | +1 929-551-8597                                                                                            |
| Email                    | admin@biolabsresearch.co                                                                                   |
| Emergency phone          | Chemtrec (US, 24h): 1-800-424-9300 · Intl: +1-703-527-3887                                                 |

## 2. Hazards Identification

|                          |                                                                                                                                                                                                                                                                                |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GHS classification       | Not classified as a dangerous substance according to GHS. Treat as pharmacologically active.                                                                                                                                                                                   |
| Signal word              | None                                                                                                                                                                                                                                                                           |
| Hazard statements        | No GHS hazard statements assigned. Treat as a pharmacologically active research material — exposure may be harmful.                                                                                                                                                            |
| Precautionary statements | P202 — Do not handle until all safety precautions have been read and understood. P261 — Avoid breathing dust. P262 — Do not get in eyes, on skin, or on clothing. P264 — Wash thoroughly after handling. P280 — Wear protective gloves/eye protection. P405 — Store locked up. |
| Other hazards            | Pharmacologically active research peptide. Avoid exposure. Effects of accidental exposure in humans are not fully characterized.                                                                                                                                               |
| Appearance               | White to off-white lyophilized powder in a glass vial.                                                                                                                                                                                                                         |

## 3. Composition / Information on Ingredients

|              |                                                                     |
|--------------|---------------------------------------------------------------------|
| Component    | GHK-Cu (copper complex of the tripeptide GHK)                       |
| CAS number   | 89030-95-5                                                          |
| Purity       | Per lot Certificate of Analysis (see the COA accompanying this lot) |
| Formula / MW | See lot COA                                                         |

## 4. First-Aid Measures

**Skin contact:** Wash with soap and plenty of water. Remove contaminated clothing. If irritation develops, seek medical attention.

**Eye contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.

**Inhalation:** Remove person to fresh air. If breathing is difficult, administer oxygen; seek medical attention.

**Ingestion:** Rinse mouth with water. Do NOT induce vomiting unless directed by medical personnel. Seek medical attention immediately.

**Most important symptoms/effects:** No complete data for humans. Pharmacologically active compound — all exposures should be treated as potentially harmful.

**Note to physician:** Treat symptomatically. No specific antidote. For research substance information contact [admin@biolabsresearch.co](mailto:admin@biolabsresearch.co).

## 5. Fire-Fighting Measures

**Extinguishing media:** Use water spray, dry chemical, carbon dioxide (CO<sub>2</sub>), or alcohol-resistant foam. Choose extinguishing media appropriate for the surrounding fire.

**Specific hazards:** Combustion may generate carbon monoxide, carbon dioxide, nitrogen oxides. Fine powders of organic material may form combustible dust clouds.

**Protective equipment:** Wear self-contained breathing apparatus (SCBA) and full protective gear.

## 6. Accidental Release Measures

**Personal precautions:** Avoid dust generation. Avoid contact with skin, eyes, and clothing. Wear appropriate PPE (see Section 8).

**Environmental precautions:** Prevent material from entering drains, sewers, or waterways.

**Containment and cleanup:** Sweep or vacuum (with HEPA filter) spilled powder, avoiding dust generation, and collect into a labeled waste container. Clean the residue with water and detergent. Dispose of according to Section 13.

## 7. Handling and Storage

**Handling:** Use only in a licensed laboratory by trained personnel. Avoid inhalation of dust, contact with eyes, skin, and clothing. Use appropriate PPE (Section 8). Wash thoroughly after handling. Keep away from food and drink.

**Storage:** Store lyophilized at 2-8°C, protected from light. Store only in the original sealed vial. Protect from light and moisture. Keep out of reach of children.

**Incompatibilities:** Strong oxidizing agents, strong acids and bases.

## 8. Exposure Controls / Personal Protection

**Occupational exposure limits:** No OEL (OSHA PEL / ACGIH TLV) established for this research compound.

**Engineering controls:** Use local exhaust ventilation or a chemical fume hood when handling powders.

**Eye protection:** Safety glasses with side-shields or goggles (OSHA-approved).

**Skin protection:** Nitrile or latex laboratory gloves. Lab coat and closed shoes. Wash contaminated clothing before reuse.

**Respiratory protection:** Use an N95/FFP2 particulate respirator when handling bulk powder where dust may form.

**General:** Safety shower and eye-wash station should be available in the laboratory.

## 9. Physical and Chemical Properties

|                               |                                  |
|-------------------------------|----------------------------------|
| Physical state                | Lyophilized solid powder         |
| Color                         | White to off-white               |
| Odor                          | Odorless to faint characteristic |
| Molecular weight              | 401.9 Da (copper complex)        |
| Solubility                    | Water-soluble; see lot COA       |
| pH (1% aq. solution)          | Approximately 4–8; see lot COA   |
| Melting / decomposition point | Not determined                   |
| Vapor pressure / density      | Negligible at 20°C               |

## 10. Stability and Reactivity

**Chemical stability:** Stable under recommended storage conditions (lyophilized, frozen, desiccated).

**Hazardous decomposition products:** thermal decomposition can produce CO, CO<sub>2</sub>, nitrogen oxides.

**Hazardous polymerization:** none reported.

## 11. Toxicological Information

Copper-tripeptide complex — pharmacologically active. Contains complexed copper; avoid eye contact. No complete human toxicological data for this research material. Not listed by IARC/NTP/OSHA.

**Likely routes of exposure:** inhalation of powder, accidental ingestion, skin/eye contact.

**Acute symptoms (if exposed):** no complete human data. Treat all exposures as potentially harmful.

**Carcinogenicity:** not listed by IARC, NTP, or OSHA as a known or suspected carcinogen (no data).

**Chronic effects:** not characterized. For research use only.

## 12. Ecological Information

No ecotoxicity data available. Pharmacologically active compound — prevent release into the environment, surface water, and waterways.

## 13. Disposal Considerations

Dispose of contents and container in accordance with local, regional, and national regulations (US EPA and state hazardous-waste rules where applicable).

Do not discharge into drains or the environment. Use an authorized hazardous-waste contractor.

## 14. Transport Information

|                      |                                                                    |
|----------------------|--------------------------------------------------------------------|
| US DOT / IATA / IMDG | Not regulated as dangerous goods (non-hazardous research compound) |
| UN number            | None                                                               |
| Packing group        | None                                                               |
| Marine pollutant     | No                                                                 |

## 15. Regulatory Information

This substance is supplied solely for research use by qualified laboratories. It is not an FDA-approved drug and is not marketed for human or veterinary use.

**US TSCA / CERCLA:** not listed. SARA 302/304/311/312/313: not listed. California Prop 65: not listed.

The purchaser is responsible for complying with all applicable federal, state, and institutional regulations governing research compounds.

## 16. Other Information

Revision 1.1 — 08 October 2026, issued by BioLabs Research (supersedes Revision 1.0 of 01 October 2026).

This SDS is provided as a courtesy for laboratory handling of research materials. The information is based on publicly available reference data and standard GHS practice for research peptides, and is believed to be accurate as of the revision date. It does not constitute a warranty. Batch-specific purity and analytical data are provided in the lot Certificate of Analysis (COA).

The purchaser assumes all responsibility for safe storage, handling, and use. For questions contact [admin@biolabsresearch.co](mailto:admin@biolabsresearch.co).

*BiolabsResearch.co — research-grade reagents for laboratory studies. This product is NOT for human use.*