



## SAFETY DATA SHEET

### GHK-Cu — 50 mg

SDS Version 1.0 | Date Prepared: 2026-08-11

#### Section 1 — Product and Company Identification

|                          |                                                                                  |
|--------------------------|----------------------------------------------------------------------------------|
| Product Name             | GHK-Cu — 50 mg                                                                   |
| Chemical Name / Sequence | Glycyl-L-histidyl-L-lysine · copper(II)                                          |
| Synonyms                 | GHK-Cu; Copper tripeptide-1                                                      |
| Catalog / SKU            | VRL-GHKCU-50                                                                     |
| Product Category         | Research Peptides — Tissue & Skin Research                                       |
| Recommended Use          | For laboratory research purposes only. Not intended for human or veterinary use. |
| Supplier                 | Valor Research Labs                                                              |
| Address                  | St. Augustine, FL 32080, United States                                           |
| Website                  | <a href="https://valorresearchlabs.com">https://valorresearchlabs.com</a>        |
| Email                    | <a href="mailto:support@valorresearchlabs.us">support@valorresearchlabs.us</a>   |
| Emergency Phone          | 1-800-222-1222 (U.S. Poison Control Center, 24 hours)                            |

#### Section 2 — Hazard Identification

**GHS Classification:** Not classified as hazardous under GHS Revision 3 on the basis of currently available data. Standard laboratory precautions for handling fine powders or liquids apply.

**Signal Word:** None

**Pictogram:** None required

**Hazard Statements:** No specific GHS hazard statements have been assigned. Dust or liquid may cause mechanical irritation of eyes, skin, or respiratory tract.

**Precautionary Statements:** P264 — Wash thoroughly after handling. P280 — Wear protective gloves, eye protection, and a laboratory coat. P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. P302+P352 — IF ON SKIN: Wash with plenty of water.

#### Section 3 — Composition / Information on Ingredients

|                   |                                                                  |
|-------------------|------------------------------------------------------------------|
| Component         | GHK-Cu — 50 mg                                                   |
| CAS Number        | 89030-95-5                                                       |
| Molecular Formula | C <sub>14</sub> H <sub>24</sub> N <sub>6</sub> O <sub>4</sub> Cu |
| Molecular Weight  | ≈ 340.9 g/mol                                                    |
| Purity            | ≥ 98%                                                            |
| Form / Appearance | Blue to blue-green lyophilized powder                            |
| Notes             | Copper(II) complex of the tripeptide Gly-His-Lys                 |

#### Section 4 — First-Aid Measures

**Inhalation:** Move person to fresh air. If symptoms appear or persist, obtain medical attention.

**Skin Contact:** Remove contaminated clothing. Wash thoroughly with soap and water.

**Eye Contact:** Flush eyes with large amounts of water for at least 15 minutes. Obtain medical attention.

**Ingestion:** Rinse mouth. Do not induce vomiting. Contact Poison Control (1-800-222-1222).

#### Section 5 — Fire-Fighting Measures

**Extinguishing Media:** Water spray, dry chemical, CO<sub>2</sub>, or alcohol-resistant foam.

**Specific Hazards:** Thermal decomposition may release carbon oxides, nitrogen oxides, and other fragments.

**Firefighter Protection:** Self-contained breathing apparatus and full protective gear.

## Section 6 — Accidental Release Measures

**Personal Precautions:** Minimize dust/aerosol generation. Wear gloves, eye protection, lab coat.

**Cleanup:** Collect carefully into labeled container. Wipe residual with damp cloth. Ventilate area.

## Section 7 — Handling and Storage

**Handling:** Handle in ventilated laboratory setting. Avoid dust creation. Do not eat, drink, or smoke while handling.

**Storage:** Lyophilized material at -20 °C, protected from light and moisture. After reconstitution store at 2-8 °C and use promptly.

**Incompatible Materials:** Strong oxidizers, strong acids, strong bases.

## Section 8 — Exposure Controls / Personal Protection

**Occupational Exposure Limits:** No established OELs.

**Engineering Controls:** Chemical fume hood or equivalent local exhaust.

**PPE:** Nitrile gloves, safety glasses with side shields, laboratory coat. Dust mask if airborne particles possible.

## Section 9 — Physical and Chemical Properties

|                |                                                   |
|----------------|---------------------------------------------------|
| Appearance     | Blue to blue-green lyophilized powder             |
| Physical State | Solid (lyophilized) or liquid (Bac Water)         |
| Odor           | Odorless or faint                                 |
| Solubility     | Soluble in water / bacteriostatic water (typical) |
| pH             | Not applicable (solid) / near neutral (solutions) |

## Section 10 — Stability and Reactivity

**Stability:** Stable under recommended storage conditions (-20 °C, protected from light/moisture).

**Conditions to Avoid:** Excessive heat, moisture, strong light, repeated freeze-thaw cycles after reconstitution.

**Hazardous Decomposition:** Carbon oxides, nitrogen oxides under fire conditions.

## Section 11 — Toxicological Information

**Acute Toxicity:** No formal LD50/LC50 data available. Handle with standard laboratory precautions.

**Skin / Eye Irritation:** May cause mild mechanical irritation.

**Carcinogenicity / Mutagenicity / Reproductive Toxicity:** No data available. Not listed by IARC, NTP, or OSHA.

## Section 12 — Ecological Information

**Ecotoxicity / Persistence / Bioaccumulation:** No data available. Avoid release to the environment.

## Section 13 — Disposal Considerations

Dispose of contents and container in accordance with local, regional, national, and international regulations. Do not dispose into sinks or drains. Consult licensed laboratory waste disposal service.

## Section 14 — Transport Information

**UN Number / Proper Shipping Name / Hazard Class:** Not regulated for transport under current DOT, IATA, or IMDG criteria when shipped as non-hazardous research material in appropriate packaging.

## Section 15 — Regulatory Information

- OSHA HCS 2012 compliant (29 CFR 1910.1200).
- Sold strictly for laboratory research use only.
- Not intended for human consumption, veterinary, food, or cosmetic use.
- SARA / Prop 65: Not listed.

## Section 16 — Other Information

|                               |                                              |
|-------------------------------|----------------------------------------------|
| SDS Version                   | 1.0                                          |
| Date Prepared / Last Revision | 2026-08-11                                   |
| Prepared By                   | Quality Assurance                            |
| Issued By                     | Valor Research Labs, St. Augustine, FL 32080 |

|                        |                                                       |
|------------------------|-------------------------------------------------------|
| <b>Document Format</b> | OSHA HCS 2012 / GHS Rev 3 (16-section)                |
| <b>Revision Notes</b>  | Initial release with verified CAS and molecular data. |

**Disclaimer:** The information in this Safety Data Sheet is believed to be accurate as of the date of preparation and is supplied in good faith. No warranty, express or implied, is made regarding completeness or suitability for any particular purpose. The user remains responsible for safe handling. Valor Research Labs accepts no liability for injury or damage arising from use outside controlled laboratory research settings. This material is intended solely for laboratory research and is not for human consumption, veterinary use, diagnostic, therapeutic, or any in-vivo administration.