

Safety Data Sheet (SDS)

Biotinoyl Tripeptide-1

Revision Date: 2026-06-10

Version: 1.5

Format: OSHA HCS (29 CFR 1910.1200) / GHS

SECTION 1: Identification

- **Product Name:** Biotinoyl Tripeptide-1 / Biotinyl-GHK
- **CAS Number:** 299157-54-3
- **Identified Uses:** Raw cosmetic peptide ingredient, laboratory chemical, in vitro research, and cosmetics manufacturing.
- **Restrictions on Use:** Strictly for analytical R&D or manufacturing use. Not a finished cosmetic product. Not for direct human or animal consumption, injection, or diagnostic use.
- **Company Name:** Albochemicals LLC
- **Company Website:** <https://www.albochem.com>
- **Address:** 8 The Green STE 10911, Dover, DE 19901

SECTION 2: Hazard(s) Identification

2.1 Classification of the substance or mixture (GHS Classification)

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS).

2.2 GHS Label Elements

Not a hazardous substance or mixture. No hazard statements or precautionary statements required. However, standard laboratory safety practices should be followed.

- **Precautionary Statements:**
- P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.

SECTION 3: Composition / Information on Ingredients

Chemical Name	Synonyms	CAS Number	Concentration
Biotinoyl Tripeptide-1	Biotinyl-GHK, N-[5-[(3aS,4S,6aR)-h exahydro-2-oxo-1H-thi eno[3,4-d]imidazol-4-y	299157-54-3	≥ 98.0%

Chemical Name	Synonyms	CAS Number	Concentration
	[]-1-oxopentyl]glycyl-L-histidyl-L-lysine		

- **Formula:** C₂₄H₃₈N₈O₆S
- **Molecular weight:** 566.67 g/mol

SECTION 4: First-Aid Measures

- **General Advice:** Consult a physician. Show this safety data sheet to the doctor in attendance.
- **Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- **Skin Contact:** Wash off with soap and plenty of water. Consult a physician if irritation develops.
- **Eye Contact:** Flush eyes with water as a precaution. Remove contact lenses if present and easy to do.
- **Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
- **Specific Hazards Arising from the Chemical:** Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides.
- **Special Protective Equipment:** Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental Release Measures

- **Personal Precautions:** Use personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist, or gas. Ensure adequate ventilation.
- **Environmental Precautions:** Do not let product enter drains.
- **Methods and Materials for Clean Up:** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and Storage

- **Precautions for Safe Handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
- **Conditions for Safe Storage:** Keep container tightly closed in a dry and well-ventilated place. For optimal stability, store the raw lyophilized powder at -20°C in a desiccated

environment.

SECTION 8: Exposure Controls / Personal Protection

- **Control Parameters:** Contains no substances with occupational exposure limit values.
- **Engineering Controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.
- **Personal Protective Equipment:**
 - **Eye/Face Protection:** Safety glasses with side-shields conforming to EN166 or NIOSH (US).
 - **Skin Protection:** Handle with gloves. Gloves must be inspected prior to use.
 - **Body Protection:** Complete suit protecting against chemicals, depending on the concentration and amount of the dangerous substance at the specific workplace.
 - **Respiratory Protection:** Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.

SECTION 9: Physical and Chemical Properties

- **Appearance:** Form: Lyophilized powder. Color: White to off-white.
- **Odor:** No data available
- **Melting Point:** No data available
- **Flash Point:** No data available
- **Solubility:** Soluble in water, PBS (pH 7.2), and DMSO.

SECTION 10: Stability and Reactivity

- **Reactivity:** No data available.
- **Chemical Stability:** Stable under recommended storage conditions (-20°C).
- **Possibility of Hazardous Reactions:** No data available.
- **Conditions to Avoid:** Heat, moisture, and light.
- **Incompatible Materials:** Strong oxidizing agents, strong acids, strong bases.

SECTION 11: Toxicological Information

- **Acute Toxicity:** No data available.
- **Skin Corrosion/Irritation:** No data available.
- **Serious Eye Damage/Eye Irritation:** No data available.
- **Respiratory or Skin Sensitization:** No data available.
- **Carcinogenicity:** Not identified as a probable, possible, or confirmed human carcinogen by IARC, NTP, or OSHA.

SECTION 12: Ecological Information

- **Toxicity:** No data available.
- **Persistence and Degradability:** No data available.

- **Bioaccumulative Potential:** No data available.
- **Other Adverse Effects:** No data available.

SECTION 13: Disposal Considerations

- **Waste Treatment Methods:** Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.
- **Contaminated Packaging:** Dispose of as unused product.

SECTION 14: Transport Information

- **DOT (US):** Not dangerous goods.
- **IMDG:** Not dangerous goods.
- **IATA:** Not dangerous goods.

SECTION 15: Regulatory Information

- **SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
- **SARA 313 Components:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
- **California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16: Other Information

Further Information: The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Albochemicals LLC and its affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.