

SAFETY DATA SHEET

According to Regulation (EC) No.1907/2006

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Material Safety Data Sheet

Copper Peptide msds

Section 1: Identification of the Substance/Preparation and of the Company/Undertaking

Identification of the substance or preparation

Product Name	:	Copper Peptide
INCI Name	:	Copper tripeptide-1
Brand	:	MC-GHK:Cu
Synonyms	:	GHK:Cu(1:1); GHKF; Gly-L-His-L-Lys:Cu acetate; iamin; Copper glycyl-histidyl-lysine
Product Number	:	C03004B
Formula		C ₁₄ H ₂₂ N ₆ O ₄ Cu·C ₄ H ₄ O ₂
Molecular Weight		485.986
Origin	:	Synthetic
Chemical family		Peptide metal complex
Use of the substance/preparation	:	Anti-aging / Anti-wrinkle / Anti-hair Loss

Company/undertaking identification

M.C.Biotec Inc.

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Section 2: Hazards Identification

This substance is not classified as dangerous according to Directive 67/548/EEC or Directive 1999/45/EC

Hazard Classification

Copper peptide is not classified as hazardous under the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)].

Health Assessment

Under the conditions of the occupational settings described, the risk to workers is considered to be acceptable.

When used in the proposed manner the risk to the public is considered to be acceptable.

Environmental Assessment

On the basis of the PEC/PNEC ratio:

Copper peptide is not considered to pose a risk to the environment based on its reported use pattern.

HMIS RATING

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

NFPA RATING

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

Section 3: Composition and Information on Ingredients

A) Ingredient	INCI Name	CAS#	EC No.	Classification	Amount
As listed in the CTFA Dictionary	Copper tripeptide-1	n.a.	444-030-6	---	100%

Hazardous Ingredients: none

Materials with prescribed limits of the EC: none

Section 4: First Aid Measures

If inhaled	:	If breathed in, move person into fresh air. If not breathing give artificial respiration
In case of skin contact	:	Wash off with soap and plenty of water.
In case of eye contact	:	Flush eyes with water as a precaution.
If swallowed	:	Never give anything by mouth to an unconscious person. Rinse mouth with water.

Section 5: Fire Fighting Measures
Extinguishing Media

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Fire and Explosion Hazards: Non-flammable

Fire Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent

contact with skin and eyes.

Section 6: Accidental Release Measures

If product is not contaminated, collect into clean containers for use.

If product is contaminated, collect into container for disposal.

Avoid spill, if spill sweep up for disposal.

Section 7: Handling and Storage

Avoid contact with eyes. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

Avoid freezing or excessive heat. Do not handle or store near an open flame, heat or other sources of ignition.

Keep the container tightly closed and in a cool, well-ventilated place.

Section 8: Exposure Controls/Personal Protection

National Exposure Standards in Australia

None established by the Work safe Australia.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Copper Tripeptide-1	none listed	none listed	none listed

ENGINEERING CONTROLS

No special engineering control measures necessary.

Safety shower and eye bath. Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT

Eyes : Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin : Wear appropriate protective gloves to prevent skin exposure.

Clothing : Wear appropriate protective clothing to prevent skin exposure.

Respirators : Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.
Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded

Section 9: Physical and Chemical Properties

Appearance and odor	Blue powder, faint acetic acid odor
Boiling Point	No boiling point, decomposes (solid)
Vapor Pressure	2.9X10 ⁻¹⁰ Pa (solid, calculated)
Specific Gravity	N/A
Evaporation Rate	N/A
Freezing Point	N/A
Melting Point	129.3°C (solid, decomposes)
Solubility	130.9g/L in water

N/A = not available

Section 10: Stability and Reactivity
Stability

Stable at 4°C, room temperature

Materials to Avoid: Strong oxidizing agents.

Hazardous Decomposition Products

Hazardous decomposition products formed under fire conditions. – Carbon oxides.

Hazardous Polymerization

Will not occur

Section 11: Toxicological Information

THRESHOLD limit value (TLV/TWA)	: N/A
Toxicity Data	: Acute toxicity: LD ₅₀ mouse (I.P.): =160mg/kg , (I.V.)=110-120mg/kg Rat (I.V.)≥75mg/kg, Rat (oral) ≥150mg/kg
Symptoms if ingested, contacted with skin, or vapor inhaled	May be harmful by inhalation, ingestion, or skin absorption. May cause irritation. To the best of our knowledge the chemical, physical, and toxicological properties have not been completely investigated.
Eye Contact	: May cause irritation. Irrigate eye with water for at least 15 to 20 minutes. Seek medical attention if symptoms persist.

Skin Contact	:	Moderate irritant to skin on direct contact.
Ingestion	:	No specific hazard known.
Section 12: Ecological Information		
Ecotoxicity		
Fish toxicity	:	not toxic to Carp.
Aquatic invertebrates	:	not toxic to daphnia
Aquatic plants	:	not toxic to freshwater algae
Persistence and degradability	:	Readily biodegradable
Mobility	:	No
Additional information	:	No
Environmental fate	:	No
(exposure)		
Bioaccumulative potential	:	No
Section 13: Disposal Considerations		
Action to take for spills/leaks		
Wear respirator, chemical goggles, lab coat, rubber boots, and rubber gloves. Sweep up, place in containment device and hold for disposal. Avoiding raising dust. Ventilate area and wash spill site with water after material pickup is complete.		
Disposal method		
Dispose in accordance with all applicable Federal, State, and Local environmental regulations. The material can be dissolved or mixed with a combustible solvent and burnt in a chemical incinerator supplied with an appropriate afterburner and scrubber providing local environmental regulations permit.		
Contaminated packaging		
Dispose of as unused product.		
Section 14: Transport Information		
General		
Not a hazardous material		
DOT		

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

ADR/RID

Not dangerous goods

IMDG

Not dangerous goods

Section 15: Regulatory Information

United States Regulatory Information

SARA LISTED: No

DSL: No

NDSL: No

EU-Labeling Name

Not listed. (The product does not need to be labeled in accordance with EC Directive 67/548/EEC or Directive 1999/45/EC or respective national laws)

ELINCS

444-030-6 [European List of Notified Chemical Substances].

Section 16: Other Information

Further information

The information above is based on our present knowledge. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

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