

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

GHK COPPER TRIPEPTIDE-1 Concentrate Solution

1. Identification of the substance/mixture and company

Trade name: GHK Copper Tripeptide-1 Concentrate Solution
INCI: Glycerin, Aqua, Copper Tripeptide-1
CAS No. : 56-81-5 / 7732-18-5/ 89030-95-5
Utilization: Raw material for cosmetic use
Supplier company identification: Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania
Tel/Fax: +40259-436.755, www.ellemental.com
Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București.
International emergency number: +49 180 2273-112

2. Hazards Identification

2.1 Classification of the substance or mixture
Classification (REGULATION (EC) No 1272/2008)
Not a hazardous substance or mixture.

2.2 Label elements
Regulatory List
EC1272/08 Regulation (EC) 1272/2008 (GHS/CLP)
Precautionary Statement
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P262 Do not get in eyes, on skin, or on clothing

2.3 Other hazards
None known if handled in accordance with good industrial hygiene and safety practice

3. Declaration of ingredients

3.1 Substances
Not applicable

3.2 Mixtures
This product is a solution containing an active ingredient (Copper tripeptide-1 Formula $C_{14}H_{24}N_6O_4Cu$). No hazardous ingredients to declare according to EC 1272/2008.

4. First aid measures

4.1 Description of first aid measures
General information: No special measures required.
After inhalation: Supply fresh air ; consult doctor in case of complaint.
After skin contact: Wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

GHK COPPER TRIPEPTIDE-1 Concentrate Solution

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Seek immediate medical advice.

Information for doctor: No further relevant information available

4.2 Most important symptoms and effects, both acute and delayed

None expected

See Section 11 for additional information on health hazards

4.3 Indication of any immediate medical attention and special treatment needed

None known. Treat symptomatically,

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media:

foam, dry extinguishing powder, carbon dioxide (CO₂), water spray jet

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Wear a self-contained breathing apparatus and chemical protective clothing.

Hazards During Fire-Fighting: toxic fumes

5.3 Advice for firefighters

Special protective equipment for firefighters:

In the event of fire, wear self-contained breathing apparatus. Do not inhale explosion and combustion gases. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely.

Further information:

Standard procedure for chemical fires.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation.

6.2 Environmental precautions

Try to prevent the material from entering drains or water courses

6.3 Methods and material for containment and cleaning up

Wipe up with absorbent material (e.g. cloth, fleece).

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

GHK COPPER TRIPEPTIDE-1 Concentrate Solution

For personal protection see section 8.
For disposal considerations see section 13.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid prolonged or repeated exposure. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling.
Hygiene measures: General industrial hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

To maintain product quality, do not store in heat or direct sun-light.

Keep container tightly closed and dry.

Advice on common storage: No special restrictions on storage with other products.

7.3 Specific end use(s)

Specific use(s):

No Specific end use

8. Exposure controls / personal protection

8.1 Control parameters

Handle in accordance with good industrial hygiene and safety practice

8.2 Exposure controls

Eye/Face protection: Avoid contact with eyes, wear splash-proof chemical goggles

Skin protection: Lightweight protective clothing. Nitrile gloves.

Respiratory protection: No personal respiratory protective equipment normally required.

8.3 Environmental exposure controls

Environmental protection legislation for every country must be observed

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: medium viscous liquid

Colour: blue

Odour: slight

Odour Threshold: No information available.

pH: 5.0-7.0

Melting point/range: not determined

Boiling point/boiling range: ca. 110 - 115 °C (calculated value)

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

GHK COPPER TRIPEPTIDE-1 Concentrate Solution

Flash point: not determined
Evaporation rate: not determined
Lower explosion limit: not determined
Upper explosion limit: not determined
Vapour pressure: not determined
Relative vapour density: Not applicable
Relative density: 1.050 - 1.250 (at 20 °C)
Density: not determined
Water solubility: soluble
Solubility in other solvents: No data available
Partition coefficient: n-octanol/water: Not applicable
Auto-ignition temperature: No data available
Ignition temperature: not determined
Thermal decomposition: No data available
Viscosity, dynamic: not determined
Explosive properties: Not explosive
Oxidizing properties: No data available

9.2 Other information

No data available

10. Stability and reactivity

10.1 Reactivity

No reactivity hazards known

10.2 Chemical stability

The substance/mixture is stable if stored and handled as recommended

10.3 Possibility of hazardous reactions

No hazardous reactions known if stored and handled as recommended

10.4 Conditions to avoid

None known if stored and handled as recommended

10.5 Incompatible materials

Strong acids and strong bases

Strong oxidizing agents, strong chelating agents

10.6 Hazardous products decomposition

No hazardous decomposition products known if stored and handled as recommended

11. Toxicological information

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

GHK COPPER TRIPEPTIDE-1 Concentrate Solution

11.1 Information effects on toxicological

Acute oral toxicity: No data available

Skin irritation: Not expected

Eye irritation: May irritate eyes.

Sensitisation: No data available

Genotoxicity in vitro: No data available

Carcinogenicity: No indication for carcinogenicity known.

Reproductive toxicity: No indication for adverse effects on fertility known.

STOT - single exposure: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure: This information is not available.

Aspiration toxicity: No aspiration toxicity classification

12. Ecological information

12.1 Toxicity

No data is available on the product.

12.2 Persistence and degradability

No data is available on the product.

12.3 Bioaccumulation potential

No data is available on the product.

12.4 Ground mobility

No data is available on the product.

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data is available on the product.

13. Disposal considerations

13.1 Waste treatment methods

This material and its container should be disposed safely avoiding release to the environment

National and regional provisions that may be in force should be observed

14. Transport information

14.1 UN number

Not regulated as a dangerous good

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

GHK COPPER TRIPEPTIDE-1 Concentrate Solution

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks: Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant national laws should be carefully observed

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for the substance/mixture

16. Additional information

Evaluation of the need of classification/no classification under Regulation (EC) No 1272/2008 has been carried out by evaluating the available information on the substance/mixture

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Test-ing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration as-sociated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; INCI: International Nomenclature of Cosmetic Ingredients; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

GHK COPPER TRIPEPTIDE-1 Concentrate Solution

Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic sub-stance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quanti-tative) Structure Activity Relationship; PNEC: Predicted No Effect Concentration; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Re-striction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; STE: Short-term exposure; STEL: Short Term Exposure limit; STOT: Specific Target Organ Toxicity; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

DECLARATION OF ALLERGENS

7th Amendment to Directive 76/768/EC, annex III, part I (2003/15/EC)

I.N.C.I.	C.A.S.	%
Alpha-Hexyl cinnamic aldehyde	101-86-0	-
Amyl cinnamic alcohol	101-85-9	-
Amyl cinnamic aldehyde	122-40-7	-
Anisyl alcohol	105-13-5	-
Benzyl salicylate	118-58-1	-
Benzyl benzoate	120-51-4	-
Benzyl cinnamate	103-41-3	-
Benzyl alcohol	100-51-6	-
Cinnamic alcohol	104-54-1	-
Cinnamic aldehyde	104-55-2	-
Citral	5392-40-5	-
Citronellol	106-22-9	-
Coumarin	91-64-5	-
Eugenol	97-53-0	-
Farnesol	4602-84-0	-
Geraniol	106-24-1	-
Hydroxycitronellal	107-75-5	-
Isoeugenol	97-54-1	-
alpha-Iso-methyl ionone	127-51-5	-

Material Safety Data Sheet

According to EU Regulation 1907/2006 in the current version

GHK COPPER TRIPEPTIDE-1 Concentrate Solution

Limonene	5989-27-5	-
Linalool	78-70-6	-
Lyril	31906-04-4	-
Methyl heptine carbonate	12/06/11	-
Methyleugenol	93-15-2	-
Oakmoss absolute	9000-50-4	-
p-tert-Butyl-alpha- methylhydrocinnamic aldehyde	80-54-6	-

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.