



**4.3 Indication of any immediate medical attention**

Treat symptomatically. No specific antidote known.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

**Suitable:** Water spray, CO<sub>2</sub>, dry chemical, foam. **Unsuitable:** None known.

**5.2 Special hazards**

Thermal decomposition may produce carbon oxides, nitrogen oxides and (where applicable) copper oxides.

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus and full protective equipment.

**SECTION 6: Accidental release measures****6.1 Personal precautions**

Avoid dust formation (or aerosol formation for liquids). Wear PPE (see Section 8). Ensure adequate ventilation.

**6.2 Environmental precautions**

Prevent entry into drains or watercourses.

**6.3 Methods for cleaning up**

Sweep up carefully. Place in labelled container for disposal. Avoid generating dust.

**6.4 Reference to other sections**

See Section 8 and Section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Handle in accordance with good laboratory practice. Avoid contact with skin, eyes and clothing. Avoid inhalation of dust or mist. Wash hands after handling.

**7.2 Conditions for safe storage**

Store in a tightly closed container in a dry, cool place. Protect from light and moisture. Recommended storage: –20 °C. Keep away from strong oxidising agents.

**7.3 Specific end use(s)**

For laboratory research use only.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

No occupational exposure limits established for the peptide components.

**8.2 Exposure controls**

**Engineering controls:** Use in a well-ventilated area or fume hood if generating dust or aerosols.

**Eye protection:** Safety glasses with side shields (EN 166).

**Hand protection:** Chemical-resistant gloves (nitrile, EN 374).

**Skin protection:** Laboratory coat.

**Respiratory protection:** Not normally required. Use particulate filter (P2) if dust is generated.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

**Physical state:** Solid (lyophilised powder blend)

**Colour:** White to off-white

**Odour:** Odourless or nearly odourless

**Solubility:** Soluble in water (typical for research peptides/compounds)

**Other properties:** Melting point, boiling point, flammability, pH, viscosity – no data available or not applicable.

**SECTION 10: Stability and reactivity****10.1–10.3 Reactivity / Chemical stability / Hazardous reactions**

Stable under recommended storage conditions. No hazardous reactions known under normal use.

**10.4 Conditions to avoid**

Excessive heat, moisture, prolonged light exposure, strong oxidising agents.

**10.5 Incompatible materials**

Strong oxidising agents, strong acids and bases.

**10.6 Hazardous decomposition products**

Carbon oxides, nitrogen oxides (and copper oxides where applicable) under fire conditions.

**SECTION 11: Toxicological information****11.1 Information on hazard classes**

Acute toxicity, skin corrosion/irritation, serious eye damage/irritation, respiratory or skin sensitisation, germ cell mutagenicity, carcinogenicity, reproductive toxicity, STOT-single/repeated exposure, aspiration hazard: No data available for the mixture. Individual peptide components have limited toxicological data available.

**11.2 Information on other hazards**

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Handle with appropriate laboratory precautions.

**SECTION 12: Ecological information****12.1–12.4 Toxicity / Persistence / Bioaccumulation / Mobility**

No data available.

**12.5 Results of PBT and vPvB assessment**

Not considered PBT or vPvB.

**12.6–12.7 Endocrine disrupting properties / Other adverse effects**

No data available. Avoid release to the environment.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Dispose of contents/container in accordance with local, regional, national and international regulations. Do not dispose into drains or the environment. Contaminated packaging should be treated as the product itself.

**SECTION 14: Transport information**

**UN number / Proper shipping name / Hazard class / Packing group:** Not regulated.

This product is not classified as dangerous goods for transport by road (ADR), rail (RID), sea (IMDG) or air (IATA).

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations**

Not classified as hazardous under GB CLP (or classified only for components present at low concentration). Supplied for research and development purposes in accordance with UK REACH.

**15.2 Chemical safety assessment**

A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

The information in this Safety Data Sheet is correct to the best of our knowledge at the date of publication. It is intended for use by trained laboratory personnel only. Peptide Origin Limited makes no warranty regarding accuracy or completeness. The user is solely responsible for determining suitability and for compliance with all applicable laws and regulations.

**Recommended use statement:** For laboratory research use only. Not for human or animal consumption.

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