MOTS-c · 10 mg

Prepared following the structure of Annex II of Regulation (EC) No 1907/2006 (REACH), as amended by Regulation (EU) 2020/878.

1. Identification of the substance or mixture and of the company

1.1 Product identifier

MOTS-c — presentation: 10 mg

SKU: PG-MOTS-10

1.2 Relevant identified uses and uses advised against

Laboratory reagent for in-vitro scientific research (Research Use Only, RUO). Advised against: any use in humans or animals, and use as a medicine, food supplement, food or cosmetic.

1.3 Details of the supplier of the safety data sheet

PureGen Peptides
Operator: DrFarmacia
Email: info@puregen-peptides.com
Web: https://puregen-peptides.com

1.4 Emergency telephone number

112 (emergencies in the EU). Toxicology Information Service (Spain): +34 91 562 04 20 (24 hours). Supplier contact: info@puregen-peptides.com.

2. Hazards identification

2.1 Classification of the substance or mixture

Based on the available information, it is not classified as hazardous under Regulation (EC) No 1272/2008 (CLP). Its toxicological properties have not been thoroughly investigated.

2.2 Label elements

No hazard labelling is required under CLP. Supplier labelling: “For research use only (RUO). Not for human or veterinary use.”

2.3 Other hazards

Biologically active material whose effects in humans have not been assessed: avoid exposure. May form dust when handling the lyophilised material: avoid inhalation. No PBT/vPvB assessment has been carried out (no chemical safety assessment is required).

3. Composition and information on ingredients

Substance (lyophilised research peptide or compound).

Component	CAS	Formula	Molar mass (g/mol)	Amount per vial
MOTS-c	1627580-64-6	C101H152N28O22S2	2174.6	10 mg

Purity, counter-ion (salt form) and water content of the batch are stated in its COA. No other hazardous components are declared.

4. First-aid measures

4.1 Description of first-aid measures

- **Inhalation:** move the person to fresh air; seek medical advice if discomfort persists.
- **Skin contact:** wash with plenty of soap and water.
- **Eye contact:** rinse with plenty of water for at least 15 minutes, removing contact lenses.
- **Ingestion:** rinse the mouth; do not induce vomiting; seek medical advice or contact a poison information service.

4.2 Most important symptoms and effects

No data available.

4.3 Indication of immediate medical attention

Symptomatic treatment. Show this sheet to medical personnel.

5. Firefighting measures

Extinguishing media: water spray, foam, dry chemical or carbon dioxide.

Specific hazards: combustion may produce carbon oxides, nitrogen oxides, sulfur oxides.

Advice for firefighters: self-contained breathing apparatus and protective clothing.

6. Accidental release measures

Personal precautions: avoid dust formation; wear the protective equipment in section 8; ventilate.

Environmental precautions: do not let the product enter drains or surface water.

Cleaning methods: collect mechanically without raising dust, or with a damp cloth; place in a chemical waste container and clean the surface. Disposal: section 13.

7. Handling and storage

Handling: handle in a ventilated area, avoiding contact with skin and eyes and dust formation. Do not eat, drink or smoke while working.

Storage: keep the vial closed, dry and protected from light, at −20 °C. Before opening, allow it to reach room temperature in a desiccator to limit water absorption.

Incompatible materials: strong oxidising agents.

Specific end uses: in-vitro scientific research (RUO).

8. Exposure controls and personal protection

Exposure limit values: none established for this product.

Engineering controls: local exhaust ventilation or a safety cabinet when handling the powder.

- **Eyes:** safety glasses with side protection.
- **Hands:** nitrile gloves.
- **Body:** laboratory coat.
- **Respiratory:** FFP2 mask if dust may form.

Hygiene: wash hands after handling.

9. Physical and chemical properties

Physical state	solid (lyophilised powder or cake)
Colour	white or off-white
Formula	C101H152N28O22S2
Molar mass	2174.6 g/mol
Odour, pH, melting point, boiling point, flash point, density, solubility	Not determined for this product (they depend on the sequence, the salt form and the medium).

10. Stability and reactivity

Chemical stability: stable under the recommended storage conditions (section 7).

Hazardous reactions: none known.

Conditions to avoid: moisture, heat and light.

Incompatible materials: strong oxidising agents.

Hazardous decomposition products: carbon oxides, nitrogen oxides, sulfur oxides.

11. Toxicological information

No toxicological data specific to this product are available: acute toxicity, skin corrosion or irritation, serious eye damage or irritation, sensitisation, mutagenicity, carcinogenicity, reproductive toxicity and specific target organ toxicity.

The toxicological properties have not been thoroughly investigated. Handle with the care due to a material of unknown toxicity and biological activity.

12. Ecological information

No data on ecotoxicity, persistence and degradability, bioaccumulative potential or mobility in soil. Do not let the product enter drains or watercourses.

13. Disposal considerations

Dispose of as chemical waste through an authorised contractor, in accordance with local and EU regulations (Directive 2008/98/EC). Contaminated packaging is treated as the product itself.

14. Transport information

Based on the available information, it is not regulated as dangerous goods for transport by road (ADR), rail (RID), sea (IMDG) or air (IATA). UN number: not applicable.

15. Regulatory information

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP). No chemical safety assessment has been carried out.

Research-use-only (RUO) product: it is not a medicine, food supplement, food or cosmetic, and is not authorised for use in humans or animals.

16. Other information

Version 1.0 · date issued: 2026-10-17. Chemical identity (CAS, formula and mass) cross-checked with PubChem.

Abbreviations: CAS, Chemical Abstracts Service number; CLP, classification, labelling and packaging; REACH, registration, evaluation, authorisation and restriction of chemicals; RUO, research use only; ADR/RID/IMDG/IATA, dangerous-goods transport regulations.

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