

SECTION 1 — IDENTIFICATION

Product: MOTS-c (10MG) · **Catalog ID:** HBL-MOTSC · **CAS:** 1627580-64-6 · **MW:** 2174.6 g/mol

Supplier: Hive Biolabs LLC, Draper, Utah, USA · research@hivebiolabs.com

Recommended use: Laboratory research use only (in-vitro). **Restrictions:** NOT for human or veterinary use; not for use as a drug, food, cosmetic, or household product.

SECTION 2 — HAZARD(S) IDENTIFICATION

The toxicological properties of this material have not been fully characterized. Not classified under 29 CFR 1910.1200 based on available data; treat as potentially hazardous. Avoid inhalation of dust, skin/eye contact, and ingestion. Research use only by qualified personnel.

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

MOTS-c — synthetic peptide, lyophilized powder. CAS 1627580-64-6. Sequence/identity: Met-Arg-Trp-Gln-Glu-Met-Gly-Tyr-Ile-Phe-Tyr-Pro-Arg-Lys-Leu-Arg (MRWQEMGYIFYPRKLR). May contain residual counter-ions (e.g., trifluoroacetate) and moisture typical of lyophilized peptides.

SECTION 4 — FIRST-AID MEASURES

Inhalation: remove to fresh air; seek medical attention if symptoms occur. **Skin:** wash with soap and water. **Eyes:** flush with water ≥15 minutes; seek medical attention. **Ingestion:** rinse mouth; do NOT induce vomiting; seek medical attention. Show this SDS to medical personnel.

SECTION 5 — FIRE-FIGHTING MEASURES

Not flammable as supplied. Extinguish with media suitable for surrounding fire (water spray, CO₂, dry chemical, foam). Combustion may produce oxides of carbon and nitrogen. Firefighters should wear self-contained breathing apparatus.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Wear PPE per Section 8. Avoid dust generation. Sweep or wipe up material and place in a suitable closed container for disposal. Wash the spill area with water. For solutions, absorb with inert material.

SECTION 7 — HANDLING AND STORAGE

Handle per good laboratory practice; avoid dust formation. Store lyophilized at -20 °C, protected from light and moisture. Reconstituted solutions: use per laboratory protocol; store refrigerated and label with date.

SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

No occupational exposure limits established. Use local exhaust or fume hood when handling powders. **PPE:** nitrile gloves, safety glasses, lab coat. Wash hands after handling. Do not eat, drink, or smoke where handled.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White to off-white lyophilized powder; odorless. Soluble in aqueous buffers per laboratory practice. Molecular weight 2174.6 g/mol.

SECTION 10 — STABILITY AND REACTIVITY

Stable under recommended storage conditions. No hazardous polymerization. Incompatible with strong oxidizers, strong acids/bases. Avoid repeated freeze-thaw of reconstituted solutions.

SECTION 11 — TOXICOLOGICAL INFORMATION

No comprehensive toxicological data available for this material. Not evaluated for carcinogenicity by IARC, NTP, or OSHA. Treat as a substance of unknown toxicity; handle per Sections 7–8.

SECTION 12 — ECOLOGICAL INFORMATION

No ecological data available. Do not allow material to enter drains or waterways.

SECTION 13 — DISPOSAL CONSIDERATIONS

Dispose of contents and container in accordance with all federal, state, and local regulations. Laboratory waste streams should be handled by a licensed waste disposal service.

SECTION 14 — TRANSPORT INFORMATION

Not classified as dangerous goods for transport (DOT/IATA/IMDG) as supplied.

SECTION 15 — REGULATORY INFORMATION

Supplied strictly for laboratory research use only (RUO); not for human or veterinary use, and not for use as a drug, food additive, cosmetic, or medical device. Not evaluated or approved by the U.S. FDA. The buyer affirms qualified-researcher status at purchase.

SECTION 16 — OTHER INFORMATION

Rev 1.0 — August 13, 2026. Prepared by Hive Biolabs LLC from supplier and public chemical-registry data (cross-reference: PubChem, ChemicalBook). This SDS is provided in good faith as a guide to safe handling; it is not a specification and creates no warranty. Users must determine suitability of the information for their particular purposes.