

## Safety Data Sheet

# Hemicholinium-3

Catalog No. **BP-02413** · CAS **312-45-8** · Physical form **Solid** · Version **1.1** · Revision **2026-09-10****FOR RESEARCH USE ONLY. NOT FOR HUMAN OR VETERINARY USE.**

### SECTION 1 — IDENTIFICATION

|                     |                                                                              |
|---------------------|------------------------------------------------------------------------------|
| Product name        | <b>Hemicholinium-3</b>                                                       |
| Catalog number      | <b>BP-02413</b>                                                              |
| CAS number          | <b>312-45-8</b>                                                              |
| Recommended use     | <b>Laboratory research chemical</b>                                          |
| Restrictions on use | <b>Not for drug, household, or other uses</b>                                |
| Supplier            | <b>Guangzhou Yuyuan Biotech Co., Ltd. (BiochemProbe)</b>                     |
| Address             | <b>Baiyun District, Guangzhou, Guangdong, China</b>                          |
| Telephone / Fax     | <b>+86 20 31130026 / +86 20 36822386</b>                                     |
| Email / Web         | <b>tech@biochemprobe.com · www.biochemprobe.com</b>                          |
| Emergency phone     | <b>+86 20 31130026 (business hours) · local poison control as applicable</b> |

### SECTION 2 — HAZARD(S) IDENTIFICATION

#### GHS classification

- Not classified based on available data, or data are insufficient for classification.

**Signal word:** None**Hazard statements:** No hazard statements assigned based on available data.**Precautionary statements:** P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/eye protection. P501 Dispose of contents/container in accordance with local regulations. Handle as a research chemical; avoid dust/mist inhalation and skin/eye contact.**Additional notes:** This SDS does not imply the substance is non-hazardous. Update when classification data become available.

### SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

|                   |                                                                             |
|-------------------|-----------------------------------------------------------------------------|
| Chemical name     | <b>Hemicholinium-3</b>                                                      |
| Synonyms          | —                                                                           |
| Molecular formula | <b>C<sub>24</sub>H<sub>34</sub>Br<sub>2</sub>N<sub>2</sub>O<sub>4</sub></b> |
| Molecular weight  | <b>574.3460</b>                                                             |
| CAS number        | <b>312-45-8</b>                                                             |

## SECTION 4 — FIRST-AID MEASURES

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.

**Skin contact:** Wash with plenty of soap and water. Remove contaminated clothing. Seek medical advice if irritation develops.

**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Call a poison center or physician if you feel unwell.

**Most important symptoms / medical attention:** Treat symptomatically. Provide this SDS to medical personnel.

## SECTION 5 — FIRE-FIGHTING MEASURES

|                              |                                                                             |
|------------------------------|-----------------------------------------------------------------------------|
| Suitable extinguishing media | <b>Water spray, dry chemical, carbon dioxide, or alcohol-resistant foam</b> |
| Unsuitable media             | <b>Do not use a solid water stream that may scatter dust</b>                |
| Specific hazards             | <b>May emit toxic fumes under fire conditions</b>                           |
| Protective equipment         | <b>Self-contained breathing apparatus and full protective gear</b>          |

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear suitable PPE (Section 8). Ensure adequate ventilation. Avoid dust formation.

**Environmental precautions:** Prevent entry into drains and surface water.

**Cleanup:** Sweep or vacuum carefully (HEPA preferred). Place in a suitable closed container for disposal.

## SECTION 7 — HANDLING AND STORAGE

**Handling:** Handle in a well-ventilated area or fume hood. Avoid contact with skin and eyes. Do not eat, drink, or smoke when using this product.

**Storage:** Power 4°C, sealed storage, away from moisture and light; In solvent -20°C, 1 month;

**Incompatibilities:** Strong oxidizing agents (general guidance). Keep away from food and feed.

## SECTION 8 — EXPOSURE CONTROLS / PERSONAL PROTECTION

|                              |                                                                  |
|------------------------------|------------------------------------------------------------------|
| Occupational exposure limits | <b>No specific OELs established for this substance</b>           |
| Engineering controls         | <b>Local exhaust / laboratory fume hood</b>                      |
| Eye / face protection        | <b>Safety glasses with side shields or chemical goggles</b>      |
| Skin protection              | <b>Chemical-resistant gloves (e.g. nitrile); lab coat</b>        |
| Respiratory protection       | <b>If dust is generated, use approved particulate respirator</b> |

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

|                          |                                   |
|--------------------------|-----------------------------------|
| Appearance               | <b>White to off-white solid</b>   |
| Physical state           | <b>Solid</b>                      |
| Color                    | <b>White to off-white</b>         |
| Odor                     | <b>No data available</b>          |
| Melting / freezing point | <b>No data available</b>          |
| Boiling point            | <b>Not applicable (solid)</b>     |
| Flash point              | <b>No data available</b>          |
| Solubility               | <b>Soluble in DMSO : 50 mg/mL</b> |
| Viscosity                | <b>Not applicable (solid)</b>     |

## SECTION 10 — STABILITY AND REACTIVITY

|                                  |                                                                                   |
|----------------------------------|-----------------------------------------------------------------------------------|
| Chemical stability               | <b>Stable under recommended storage conditions</b>                                |
| Conditions to avoid              | <b>Moisture, excessive heat, dust generation</b>                                  |
| Incompatible materials           | <b>Strong oxidizers</b>                                                           |
| Hazardous decomposition products | <b>Carbon / nitrogen / sulfur / halogen oxides may form under fire conditions</b> |

## SECTION 11 — TOXICOLOGICAL INFORMATION

**Likely routes of exposure:** Inhalation of dust, skin and eye contact, ingestion.

|                                   |                                                                                                                                                                                               |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute toxicity                    | <b>See Section 2. Substance-specific LD50/LC50 data not available.</b>                                                                                                                        |
| Skin corrosion / irritation       | <b>See Section 2.</b>                                                                                                                                                                         |
| Serious eye damage / irritation   | <b>See Section 2.</b>                                                                                                                                                                         |
| Respiratory or skin sensitization | <b>No data available.</b>                                                                                                                                                                     |
| Germ cell mutagenicity            | <b>No data available.</b>                                                                                                                                                                     |
| Carcinogenicity                   | <b>No data available. No component present at <math>\geq 0.1\%</math> is identified as a probable, possible, or confirmed human carcinogen by IARC, NTP, or OSHA based on available data.</b> |
| Reproductive toxicity             | <b>No data available.</b>                                                                                                                                                                     |
| STOT — single exposure            | <b>See Section 2.</b>                                                                                                                                                                         |
| STOT — repeated exposure          | <b>No data available.</b>                                                                                                                                                                     |
| Aspiration hazard                 | <b>Not applicable for solid under normal use.</b>                                                                                                                                             |

**Additional information:** To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Treat as a research chemical.

## SECTION 12 — ECOLOGICAL INFORMATION

No specific ecotoxicity data available. Do not release to the environment. Avoid discharge to sewer and waterways.

## SECTION 13 — DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with local, regional, and national regulations. Offer surplus and non-recyclable material to a licensed disposal company.

## SECTION 14 — TRANSPORT INFORMATION

|                     |                                                                        |
|---------------------|------------------------------------------------------------------------|
| DOT (US)            | <b>Not dangerous goods</b>                                             |
| IMDG                | <b>Not dangerous goods</b>                                             |
| IATA                | <b>Not dangerous goods</b>                                             |
| Special precautions | <b>Transport in sealed containers; protect from moisture / leakage</b> |

## SECTION 15 — REGULATORY INFORMATION

Intended for research use only. The user must determine applicability of local chemical inventory listings and workplace regulations before use.

## SECTION 16 — OTHER INFORMATION

|               |                   |
|---------------|-------------------|
| SDS version   | <b>1.1</b>        |
| Revision date | <b>2026-09-10</b> |

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