Safety Data Sheet

8-(1,1-Dimethylethyl) (3-exo)-8-azabicyclo[3.2.1]octane-3,8-dicarboxylate

Catalog No. **BP-02056** · CAS **280762-00-7** · Physical form **Solid** · Version **1.1** · Revision **2026-11-12**

FOR RESEARCH USE ONLY. NOT FOR HUMAN OR VETERINARY USE.

SECTION 1 — IDENTIFICATION

Product name	**8-(1,1-Dimethylethyl) (3-exo)-8-azabicyclo[3.2.1]octane-3,8-dicarboxylate**
Catalog number	**BP-02056**
CAS number	**280762-00-7**
Recommended use	**Laboratory research chemical**
Restrictions on use	**Not for drug, household, or other uses**
Supplier	**Guangzhou Yuyuan Biotech Co., Ltd. (BiochemProbe)**
Address	**Baiyun District, Guangzhou, Guangdong, China**
Telephone / Fax	**+86 20 31130026 / +86 20 36822386**
Email / Web	**tech@biochemprobe.com · www.biochemprobe.com**
Emergency phone	**+86 20 31130026 (business hours) · local poison control as applicable**

SECTION 2 — HAZARD(S) IDENTIFICATION

GHS classification

- Skin irritation — Category 2
- Eye irritation — Category 2A
- Specific target organ toxicity, single exposure — Category 3 (respiratory tract irritation)

Signal word: Warning

Pictogram: GHS07

Hazard statements: H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Precautionary statements: P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/container to an approved waste disposal plant.

Additional notes: Dust may form an irritant atmosphere if handled without local exhaust.

SECTION 3 — COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	**8-(1,1-Dimethylethyl) (3-exo)-8-azabicyclo[3.2.1]octane-3,8-dicarboxylate**
Synonyms	**280762-00-7**
Molecular formula	**$C_{13}H_{21}NO_4$**
Molecular weight	**255.3101**
CAS number	**280762-00-7**

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

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: Powder -20°C, 3 years , 4°C, 2 years ; 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	**No specific OELs established for this substance**
Engineering controls	**Local exhaust / laboratory fume hood**
Eye / face protection	**Safety glasses with side shields or chemical goggles**
Skin protection	**Chemical-resistant gloves (e.g. nitrile); lab coat**
Respiratory protection	**If dust is generated, use approved particulate respirator**

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Appearance	**White to off-white solid**
Physical state	**Solid**
Color	**White to off-white**
Odor	**No data available**
Melting / freezing point	**No data available**
Boiling point	**Not applicable (solid)**
Flash point	**No data available**
Solubility	**Soluble in DMSO : 100 mg/mL**
Viscosity	**Not applicable (solid)**

SECTION 10 — STABILITY AND REACTIVITY

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

SECTION 11 — TOXICOLOGICAL INFORMATION

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

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

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)	**Not dangerous goods**
IMDG	**Not dangerous goods**
IATA	**Not dangerous goods**
Special precautions	**Transport in sealed containers; protect from moisture / leakage**

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	**1.1**
Revision date	**2026-11-12**

Disclaimer	**Information is believed accurate but is provided without warranty. Recipients must verify suitability for intended use and regulatory obligations. For official archival use, download the certified PDF when published.**

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