

# BIOFINE INTERNATIONAL INC.

1650 Pandora Street  
Vancouver, B.C. V5L 1L6, Canada  
Tel: (604) 438-8181, (866) 472-9441 (toll free)



P.O. Box 712  
Blaine, WA 98231-0712, USA  
Fax: (604) 438-8378, (866) 623-7408 (toll free)

## Safety Data Sheet

### Section 1. Product and Company Identification

*Product Name:* 4-[4-(tert-Butoxycarbonyl)piperazin-1-yl]-4-oxobutanoic acid  
*Catalogue number:* 16064  
*Product use:* For laboratory research purpose  
*Manufacturer:* Biofine International Inc.  
1650 Pandora Street  
Vancouver, BC, Canada, V5L 1L6  
*Telephone:* (604) 438-8181  
*Fax:* (604) 438-8378  
*Emergency Phone:* 1-866-472-9441

### Section 2. Hazards Identification

*TSCA listing:* This product is not listed in the TSCA inventory

*GHS Classification:* Mild Skin Irritation, Eye Irritation

*GHS Hazard Statement:*

H303: May be harmful if swallowed  
H313: May be harmful in contact with skin  
H320: Causes eye irritation

*GHS Pictograms:*



*GHS Signal words:* Warning

*Precautionary statement:*

P261: Avoid breathing dust/fume/gas/mist/vapours/spray  
P262: Do not get in eyes, on skin, or on clothing  
P280: Wear protective gloves/protective clothing/eye protection/face protection  
P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing

### Section 3. Composition/information on ingredients

*Ingredient name:* 4-[4-(tert-Butoxycarbonyl)piperazin-1-yl]-4-oxobutanoic acid  
*CAS number:* 288851-44-5  
*TSCA listing:* This product is not listed in the TSCA inventory.

### Section 4. First aid measures

*Skin contact:* Immediately wash skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes. If irritation persists, seek medical attention.

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**Eye contact:** Immediately wash skin with copious amounts of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. If irritation persists, seek medical attention.

**Inhalation:** Remove to fresh air. In severe cases or if symptoms persist, seek medical attention.

**Ingestion:** Wash out mouth with copious amounts of water for at least 15 minutes. Seek medical attention.

## **Section 5. Fire fighting measures**

**Extinguishing media:** Carbon dioxide, or dry chemicals

**Special fire fighting procedures:** Protective clothing and self-contained breathing apparatus should be worn.

## **Section 6. Accidental release measures**

**Personal precautions:** Wear suitable personal protective equipment which performs satisfactorily and meets local/state/national standards.

**Hand precaution:** Wear suitable gloves/gauntlets.

**Skin protection:** Wear suitable protective clothing.

**Eye protection:** Wear suitable eye protection.

**Methods for cleaning up:** Mix with sand or similar inert absorbent material, sweep up and keep in a tightly closed container for disposal.

**Environmental precautions:** Do not allow material to enter drains or water courses.

## **Section 7. Handling and storage**

**Handling:** This product should be handled only by, or under the close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals, who should take into account the fire, health and chemical hazard data given on this sheet.

**Storage:** Store in closed vessels in a dry place, away from heat.

## **Section 8. Exposure controls/Personal Protection**

**Engineering controls:** Exhaust ventilation

**Personal Protection:** Safety glasses, Lab coat, Gloves

## **Section 9. Physical and chemical properties**

**Appearance:** white powder

**Odour:** No data

**Boiling point:** No data

**Melting point:** No data

**Flash point:** No data

**Density:** No data

**Molecular formula:** C<sub>13</sub>H<sub>22</sub>N<sub>2</sub>O<sub>5</sub>

**Molecular weight:** 286.324

## **Section 10. Stability and reactivity**

**Conditions to avoid:** No data

**Materials to avoid:** No data

**Possible hazardous combustion products:** No data

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**Section 11. Toxicological information**

No data

**Section 12. Ecological information**

No data

**Section 13. Disposal consideration**

Arrange disposal as special waste, by licensed disposal company, in consultation with local waste disposal authority, in accordance with national and regional regulations.

**Section 14. Transport information**

Not a hazardous material for transportation.

DOT <i>regulations</i> :	Not a DOT controlled material
<i>Land transport</i> ADR/RID class:	None
<i>Air transport</i> IATA class:	None

**Section 15. Regulations**

This product is not on the EPA Toxic Substances Control Act (TSCA) inventory.  
For use only by technically qualified individuals

**Section 16. Other information**

This SDS is correct to the best of our knowledge and belief at the date of its publication. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.