

# Safety Data Sheet

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: (2R,3R)-2,3-Dihydroxybutanedioic acid; ethyl (3R)-piperidine-3-carboxylate

Catalog Number: L13778

CAS Number: 167392-57-6

**FOR R&D use only**

Supplier: AChemBlock(Advanced ChemBlocks Inc), 26120 Eden Landing Rd, Suite 1  
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## 2. HAZARDS IDENTIFICATION

### GHS Classification

Acute toxicity, Oral (Category 4)

Skin corrosion/irritation (Category 2)

Serious eye damage/eye irritation (Category 2A)

### GHS Label elements, including precautionary Statements

**Pictogram:**



**Signal word:** Warning

### Hazard statement(s):

H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

### Precautionary Statement(s):

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312

P302+P352

P305+P351+P338

P321 Specific treatment (see ... on this label).

P330 Rinse mouth.

P332+P313

P337+P313

P362 Take off contaminated clothing and wash before reuse.

P501

Dispose of contents/container to ...

### 3. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient name: (2R,3R)-2,3-Dihydroxybutanedioic acid; ethyl (3R)-piperidine-3-carboxylate  
CAS number: 167392-57-6  
Molecular Formula: C<sub>12</sub>H<sub>21</sub>NO<sub>8</sub>  
Molecular Weight: 307.3

### 4. FIRST AID MEASURES

**In case of eye contact:**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If inhaled:**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin Contact:**

Wash off with soap and plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician.

**If swallowed:**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 5. FIREFIGHTING MEASURES

**Suitable extinguishing media:**

Use carbon dioxide, dry chemical powder, alcohol-resistant or polymer foam.

**Special protective equipment for firefighters:**

Wear self-contained breathing apparatus for fire-fighting if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Environmental precautions:**

Do not let product enter drains.

**Methods and Materials for containment and cleaning up**

Absorb spills on sand or vermiculite and place in closed container for disposal.

### 7. HANDLING AND STORAGE

**Precautions for safe handling:**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Wash thoroughly after handling.

**Conditions for safe storage:**

Keep container tightly closed in a cool, dry, well-ventilated place.

**Recommended storage temperature:**

Store at Room Tem.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

**Engineering Controls:**

Use only in a chemical fume hood.

**Personal Protective equipment:**

Wear chemical-resistant gloves, safety goggles.

**General Hygiene measures:**

Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Wash contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                |               |
|----------------|---------------|
| Appearance:    | white solid   |
| Odor:          | not available |
| Boiling point: | not available |
| Melting point: | not available |
| Flash Point:   | not available |
| Density:       | not available |

## 10. STABILITY AND REACTIVITY

|   |  |
|---|--|
| Chemical stability:                     | Stable under recommended storage conditions. |
| Materials to avoid:                     | No data available                            |
| Conditions to avoid:                    | strong oxidizer; strong acid                 |
| Possible hazardous combustion products: | carbon oxides; nitrogen oxides;              |

## 11. Toxicological information

**No Data.**

## 12. ECOLOGICAL INFORMATION

**No Data.**

### 13. DISPOSAL CONSIDERATIONS

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

### 14. Transportation information

Non-hazardous for air and ground transportation. Or not available.

### 15. Regulatory Information

Indication of danger: No data

Risk Statement: No data

Safety Statement: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection.

### 16. Other information

Revision: 2

Revision Date: Update: 2024-01-01

*The above information is believed to be correct at the date of its publication but does not supposed to be all-inclusive and shall be used only as a guide.*

***Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.***

*AChemBlock(Advanced ChemBlocks Inc) should not be held liable for any damage resulting from handling or from contact with the above product.*