

# Material Safety Data Sheet

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## 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifier

Product Name: Rosmarinic Acid  
Product Code: GIPL/FP/123  
CAS No.: 20283-92-5

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, manufacture of substances.

### 1.3 Details of the supplier of the safety data sheet

Company: Amuna Pharmaceuticals LLP

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## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the Substance or Mixture:

Not a hazardous substance or mixture.

### 2.2 GHS Label elements, including precautionary statements:

Not a hazardous substance or mixture.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

none

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substances

|                  |   |  |
|------------------|---|--|
| Synonyms         | : | (R)-O-(3,4-Dihydroxycinnamoyl)-3-(3,4-dihydroxyphenyl)lactic acid, 3,4-Dihydroxycinnamic acid (R)-1-carboxy-2-(3,4-dihydroxyphenyl)ethyl ester |
| Formula          | : | C <sub>18</sub> H <sub>16</sub> O <sub>8</sub>   |
| Molecular weight | : | 360.33 mg/mol  |
| CAS-No.          | : | 20283-92-5   |

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## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### 4.11 In Case of Inhalation

Remove to fresh air; if breathing is difficult, give oxygen; if breathing stops, give artificial respiration.

#### 4.12 In Case of Skin Contact

Flush with copious amounts of water; remove contaminated clothing and shoes; call a physician

#### 4.13 In Case of Eye Contact:

Check for and remove contact lenses and flush with copious amounts of water; assure adequate flushing by separating the eye lids with fingers; call a physician.

#### 4.14 In Case of Ingestion

Wash out mouth with copious amounts of water; call a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2).

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

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## 5. FIREFIGHTING MEASURES

### 5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Special protective equipment for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.3 Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon oxides.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas. Avoid breathing dust. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

### 6.2 Environmental precautions

Do not let product enter drains.

### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### 7.2 Conditions for safe storage, including any incompatibilities

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

Air sensitive. Store under inert gas.

Recommended storage temperature: Store at Ambient Temperature.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### 8.2.1 Engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### 8.2.2 Personal protective equipment

|                                 |   |                                   |
|---------------------------------|---|-----------------------------------|
| Eye protection                  | : | Safety goggles with side-shields. |
| Hand protection                 | : | Protective gloves.                |
| Skin and body protection        | : | Impervious clothing.              |
| Respiratory protection          | : | Suitable respirator.              |
| Environmental exposure controls | : | Do not let product enter drains.  |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|                        |  |
|------------------------|--|
| Appearance             | Solid-Powder                                     |
| Odor                   | No data available                                |
| Odor threshold         | No data available                                |
| pH                     | No data available                                |
| Melting/freezing point | Melting point/range: 171 - 175 °C (340 - 347 °F) |
| Boiling point/range    | No data available                                |
| Flash point            | No data available                                |

|  |                   |
|--|-------------------|
| Evaporation rate                             | No data available |
| Flammability (solid, gas)                    | No data available |
| Upper/lower flammability or explosive limits | No data available |
| Vapor pressure                               | No data available |
| Vapor density                                | No data available |
| Relative density                             | No data available |
| Water solubility                             | No data available |
| Partition coefficient: noctanol/water        | No data available |
| Auto-ignition temperature                    | No data available |
| Decomposition temperature                    | No data available |
| Viscosity                                    | No data available |
| Explosive properties                         | No data available |
| Oxidizing properties                         | No data available |

#### **9.2 Other safety information**

No data available

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### **10. STABILITY AND REACTIVITY**

#### **10.1 Reactivity**

No data available.

#### **10.2 Chemical stability**

Stable under recommended storage conditions.

#### **10.3 Possibility of hazardous reactions**

No data available.

#### **10.4 Conditions to avoid**

Air sensitive.

#### **10.5 Materials to avoid**

Strong oxidizing agents.

#### **10.6 Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - see section 5

Other decomposition products - no data available.

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### **11. TOXICOLOGICAL INFORMATION**

#### **11.1 Information on toxicological effects**

##### **Acute toxicity**

Inhalation: no data available

Dermal: no data available

LD50 Intravenous - mouse - 561 mg/kg

##### **Skin corrosion/irritation**

No data available.

##### **Serious eye damage/eye irritation**

No data available.

##### **Respiratory or skin sensitisation**

No data available.

##### **Germ cell mutagenicity**

No data available.

##### **Carcinogenicity**

IARC: No component of this product present at a level equal to or greater than 0.1% is identified as probable,

possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by ACGIH.

NTP: No component of this product present at a level equal to or greater than 0.1% is identified as a anticipated or confirmed carcinogen by NTP.

OSHA: No component of this product present at a level equal to or greater than 0.1% is identified as a potential or confirmed carcinogen by OSHA.

**Reproductive toxicity**

No data available.

**Specific target organ toxicity - single exposure**

No data available.

**Specific target organ toxicity - repeated exposure**

No data available.

**Aspiration hazard**

No data available.

**Additional Information**

**RTECS:** GD8990000

The toxicological effects of this product have not been thoroughly studied.

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## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

No data available.

### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

BT/vPvB assessment not available as chemical safety assessment not required/not conducted.

### 12.6 Other adverse effects

No data available.

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## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Product**

Dispose substance in accordance with prevailing country, federal, state and local regulations.

**Contaminated packaging**

Dispose of as unused product.

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## 14. TRANSPORT INFORMATION

**DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

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## 15. REGULATORY INFORMATION

**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold

(De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

No SARA Hazards.

**Massachusetts Right to Know Components**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right to Know Components**

No components are subject to the Pennsylvania Right to Know Act.

**New Jersey Right to Know Components**

No components are subject to the New Jersey Right to Know Act.

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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**16. OTHER INFORMATION**

The above information is believed to be correct based on the present state of our knowledge but does not purport to be complete. The product is for research and trained personnel use only. BioExcel disclaims all liability for any damage resulting from handling or from contact with the above product.