

### SECTION-1: Identification of the substance / mixture and the company / undertaking

|                             |  |
|-----------------------------|--|
| <b>Catalogue Number</b>     | CS-T-96287   |
| <b>Product Name</b>         | Ticarcillin Disodium Salt-13C3 (Contain 10% Methanol)  |
| <b>CAS No.</b>              | -  |
| <b>Category</b>             | Stable Isotopes  |
| <b>Synonyms</b>             | "(2S,5R,6R)-6-[[[(2R)-2-Carboxy-2-(3-thienyl)acetyl]amino]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic-13C3 Acid Disodium Salt;<br>6-[D-(-)-a-Carboxy-3-thienylacetamido]penicillanic-13C3 Acid Disodium Salt;<br>[2S-[2a,5a,6β(S*)]]-6-[(Carboxy" |
| <b>Brand</b>                | Clearsynth Labs Ltd.   |
| <b>Identified uses</b>      | Laboratory Chemicals   |
| <b>Uses advised against</b> | Not available  |
| <b>Company</b>              | Clearsynth Labs Ltd.<br>Mumbai, India  |
| <b>Emergency Phone #</b>    | +91-22-245045900   |
| <b>REACH No.</b>            | Not available  |

### SECTION 2: Hazards identification

**Disclaimer:** This is sample MSDS. Please email [sales@clearsynth.com](mailto:sales@clearsynth.com) for more details.

#### 2.1 Classification of the substance or mixture-Regulation (EC) No 1272/2008:

Not available

#### 2.2 Label Elements

**Signal Word:** Not available

Not available

#### Hazard Statement(s)

| Code          | Statement     |
|---------------|---------------|
| Not available | Not available |

#### Precautionary Statement(s)

| Code          | Statement     |
|---------------|---------------|
| Not available | Not available |

### SECTION 3: Composition / information on ingredients

#### 3.1 Substance

Component : Ticarcillin Disodium Salt-13C3 (Contain 10% Methanol)

CAS Number : -

Molecular Formula : C<sub>12</sub><sup>13</sup>C<sub>3</sub>H<sub>14</sub>N<sub>2</sub>Na<sub>2</sub>O<sub>6</sub>S<sub>2</sub>

Molecular Weight : 431.37

Parent Chemical : -

Synonyms : "(2S,5R,6R)-6-[[[(2R)-2-Carboxy-2-(3-thienyl)acetyl]amino]-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylic-13C3 Acid Disodium Salt; 6-[D-(-)-a-Carboxy-3-thienylacetamido]penicillanic-13C3 Acid

Disodium Salt; [2S-[2a,5a,6β(S\*)]]-6-[(Carboxy"

Concentration : Not available

### SECTION 4: First aid measures

#### SECTION 4: First-aid measures

##### 4.1 Description of first aid measures

- General advice: Remove contaminated clothing and shoes. Seek medical attention if symptoms persist or if exposure is significant.
- Inhalation: Move person to fresh air. If breathing is difficult, seek medical attention.
- Skin contact: Wash with plenty of soap and water. Get medical attention if irritation develops.
- Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.
- Ingestion: Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical attention.

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

- Not available.

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

- Treat symptomatically.
- Not available.

### SECTION 5: Firefighting measures

#### SECTION 5: Fire-fighting measures

##### 5.1 Extinguishing media

- Suitable extinguishing media: Use extinguishing measures appropriate to surrounding fire (e.g., water spray, alcohol-resistant foam, dry chemical, carbon dioxide).
- Unsuitable extinguishing media: Not available.

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

- Fire hazard: Mixture contains methanol; vapors may form flammable mixtures with air.
- Hazardous combustion products: Not available.

##### 5.3 Advice for firefighters

- Wear self-contained breathing apparatus (SCBA) and full protective gear.
- Cool containers with water spray if exposed to fire.

- Prevent fire-fighting water from entering drains or waterways.

### SECTION 6: Accidental release measures

#### SECTION 6: Accidental release measures

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

- Evacuate unnecessary personnel. Ensure adequate ventilation.
- Avoid breathing dust/mist/vapors. Avoid contact with skin and eyes.
- Use appropriate personal protective equipment (see Section 8).
- Eliminate ignition sources due to methanol content.

##### 6.2 Environmental precautions

- Avoid release to the environment. Prevent entry into drains, sewers, and waterways.

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

- Small spills: Absorb with inert material (e.g., sand, vermiculite). Collect into suitable, labeled containers for disposal.
- Solid residues: Sweep up carefully to minimize dust generation.
- Clean spill area with water and detergent where appropriate.

##### 6.4 Reference to other sections

- See Section 8 (Exposure controls/personal protection) and Section 13 (Disposal considerations).

### SECTION-7: Handling and storage

#### SECTION 7: Handling and storage

##### 7.1 Precautions for safe handling

- Handle in accordance with good industrial hygiene and safety practice.
- Avoid breathing dust/mist/vapors. Avoid contact with skin and eyes.
- Use only with adequate ventilation.
- Keep away from heat, sparks, open flames, and hot surfaces (methanol content).
- Do not eat, drink, or smoke when using this product. Wash hands after handling.

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

- Store in tightly closed container in a cool, dry, well-ventilated place.
- Keep container tightly closed when not in use.
- Store away from ignition sources.
- Incompatible materials: Not available.

##### 7.3 Specific end use(s)

- Laboratory/research use only. Not available.

### SECTION 8: Exposure controls / personal protection

#### SECTION 8: Exposure controls/personal protection

##### 8.1 Control parameters

- Occupational exposure limits: No data available for the product mixture. For methanol, consult applicable local/regional regulations.

- Biological limit values: Not available.

### 8.2 Exposure controls

- Engineering controls: Use local exhaust ventilation or general ventilation to maintain exposure below applicable limits.

- Personal protective equipment (PPE):

- Eye/face protection: Safety glasses with side shields or chemical splash goggles.

- Skin protection: Protective gloves (material selection based on permeation data; not available). Lab coat or protective clothing.

- Respiratory protection: If ventilation is inadequate, use appropriate respiratory protection in accordance with applicable regulations.

- Hygiene measures: Wash hands and exposed skin thoroughly after handling.

- Environmental exposure controls: Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| Test        | Result            |
|-------------|-------------------|
| Appearance  | No data available |
| IR spectrum | No data available |
| pH          | No data available |
| Solubility  | No data available |

| Property                                   | Value             |
|--|-------------------|
| a) Physical State                          | No data available |
| b) Color                                   | No data available |
| c) Odor                                    | No data available |
| d) pH                                      | No data available |
| e) Vapour Pressure                         | No data available |
| f) Viscosity                               | No data available |
| g) Initial Boiling Point and boiling range | No data available |
| h) Melting Point / Freezing Point          | No data available |
| i) Auto Ignition Temperature               | No data available |
| j) Flash Point                             | No data available |
| k) Explosion Limit, Lower                  | No data available |

| Property                     | Value             |
|------------------------------|-------------------|
| l) Explosion Limit, Upper    | No data available |
| m) Decomposition Temperature | No data available |
| n) Loss on Drying            | No data available |
| o) Relative Density          | No data available |
| p) Solubility (in DMSO)      | No data available |
| q) Oxidizing Properties      | No data available |

### SECTION 10: Stability and reactivity

#### SECTION 10: Stability and reactivity

##### 10.1 Reactivity

- Not available.

##### 10.2 Chemical stability

- Stable under recommended storage conditions.

##### 10.3 Possibility of hazardous reactions

- Not available.

##### 10.4 Conditions to avoid

- Heat, sparks, open flames, and other ignition sources.  
- Excessive heat and incompatible conditions. Not available.

##### 10.5 Incompatible materials

- Not available.

##### 10.6 Hazardous decomposition products

- Not available.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

- Acute toxicity: No data available.  
- Skin corrosion/irritation: No data available.  
- Serious eye damage/eye irritation: No data available.  
- Respiratory or skin sensitization: No data available.  
- Germ cell mutagenicity: No data available.  
- Carcinogenicity: No data available.  
- Reproductive toxicity: No data available.  
- STOT-single exposure: No data available.  
- STOT-repeated exposure: No data available.  
- Aspiration hazard: No data available.

#### Likely routes of exposure

- No data available.

Symptoms related to the physical, chemical and toxicological characteristics

- Not available.

## SECTION 12: Ecological information

SECTION 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

- Not available.

12.6 Endocrine disrupting properties

- Not available.

12.7 Other adverse effects

- Not available.

## SECTION 13: Disposal considerations

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Dispose of contents/container in accordance with local/regional/national/international regulations.

- Do not discharge to drains.

- Waste classification: Not available.

- Contaminated packaging: Dispose of as unused product or according to local requirements.

## SECTION 14: Transport information

SECTION 14: Transport information

- UN number: Not available.

- UN proper shipping name: Not available.

- Transport hazard class(es): Not available.

- Packing group: Not available.

- Environmental hazards: Not available.

- Special precautions for user: Not available.

- Transport in bulk according to IMO instruments: Not available.

Note: Product contains methanol; transport classification may depend on concentration and applicable regulations.  
No data available.

### SECTION 15: Regulatory information

#### SECTION 15: Regulatory information

##### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Not available.

##### 15.2 Chemical safety assessment

- Not available.

### SECTION 16: Other information

#### SECTION 16: Other information

- Product name: Ticarcillin Disodium Salt-13C3 (Contain 10% Methanol)

- Catalog no.: CS-T-96287

- Supplier: Clearsynth Labs Ltd., Mumbai, India

- Emergency phone: +91-22-245045900

#### Disclaimer

- The information provided is believed to be accurate based on available data, but no warranty is expressed or implied. Users are responsible for determining suitability for their particular application and for compliance with applicable laws and regulations.

Revision date: Not available.

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