

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

|                             |   |
|-----------------------------|---|
| <b>Catalogue Number</b>     | CS-O-41477  |
| <b>Product Name</b>         | HT2-13C22   |
| <b>CAS No.</b>              | 1486469-92-4  |
| <b>Category</b>             | Stable Isotopes   |
| <b>Synonyms</b>             | (1'S,2S,2'R,4'S,7'R,9'R,10'R,11'S)-2-[[[(1,2-13C2)acetyloxy](13C)methyl]-10',11'-dihydroxy-1',5'-di(13C)methyl(1',2,2',3,3',4',5',6',7',9',10',11'-13C12)-8'-oxaspiro[oxirane-2,12'-tricyclo[7.2.1.0{2,7}]dodecan]-5'-en-4'-yl 3-(13C)methyl(1,2,3,4-13C4)butanoate |
| <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:

Skin irritation (Category 2)  
Serious eye damage/eye irritation (Category 2)

#### 2.2 Label Elements

**Signal Word:** Warning



**Hazard Statement(s)**

| Code | Statement |
|------|-----------|
|------|-----------|

|      |                                |
|------|--------------------------------|
| H300 | Not available                  |
| H310 | Not available                  |
| H315 | Causes skin irritation.        |
| H319 | Causes serious eye irritation. |
| H330 | Not available                  |
| H335 | Not available                  |

### Precautionary Statement(s)

| Code           | Statement   |
|----------------|---|
| P260           | Not available   |
| P261           | Avoid breathing dust/fume/gas/mist/vapours/spray.   |
| P262           | Not available   |
| P264           | Wash hands thoroughly after handling.   |
| P264+P265      | Not available   |
| P270           | Not available   |
| P271           | Use only outdoors or in a well-ventilated area.   |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.                      |
| P284           | Not available   |
| P301+P316      | Not available   |
| P302+P352      | IF ON SKIN: Wash with plenty of water and soap.   |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                      |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present. |
| P316           | Not available   |
| P319           | Get medical help if you feel unwell.  |
| P320           | Not available   |
| P321           | Specific treatment (see ... on this label).   |
| P330           | Not available   |
| P332+P317      | If skin irritation occurs: Get medical help.  |
| P337+P317      | If eye irritation persists: Get medical help.   |
| P361+P364      | Not available   |

|           |   |
|-----------|---|
| P362+P364 | Take off contaminated clothing and wash it before reuse.  |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed.                                  |
| P405      | Store locked up.  |
| P501      | Dispose of contents/container in accordance with local/regional/national/international regulation |

### SECTION 3: Composition / information on ingredients

#### 3.1 Substance

Component : HT2-13C22

CAS Number : 1486469-92-4

Molecular Formula : [13C]22H32O8

Molecular Weight : 446.3

Parent Chemical : -

Synonyms : (1'S,2'S,2'R,4'S,7'R,9'R,10'R,11'S)-2'-[[[(1,2-13C2)acetyloxy](13C)methyl]-10',11'-dihydroxy-1',5'-di(13C)methyl(1',2',3',4',5',6',7',9',10',11'-13C12)-8'-oxaspiro[oxirane-2,12'-tricyclo[7.2.1.0{2,7}]dodecan]-5'-en-4'-yl] 3-(13C)methyl(1,2,3,4-13C4)butanoate

Concentration : Not available

### SECTION 4: First aid measures

#### SECTION 4: First-aid measures

##### 4.1 Description of first aid measures

General advice: Seek medical advice if symptoms occur or persist. Show this SDS to the physician.

Inhalation: Move person to fresh air. If breathing is difficult, seek medical attention.

Skin contact: Wash with soap and water. Remove contaminated clothing and wash before reuse.

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. No data available.

### SECTION 5: Firefighting measures

#### SECTION 5: Fire-fighting measures

##### 5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing measures appropriate to local circumstances and the surrounding environment (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

Specific hazards: No data available.

Hazardous combustion products: Not available.

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus (SCBA) and full protective gear. Prevent fire-fighting water from entering drains or watercourses where possible.

## SECTION 6: Accidental release measures

### SECTION 6: Accidental release measures

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

Avoid breathing dust/vapors/mist. Avoid contact with skin and eyes. Use appropriate personal protective equipment.

#### 6.2 Environmental precautions

Avoid release to the environment. Prevent entry into drains, surface water, or soil.

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

Contain spill. Collect spilled material using inert absorbent and place in a suitable, labeled container for disposal. Clean contaminated area with suitable cleaning method. Dispose of waste in accordance with local regulations.

#### 6.4 Reference to other sections

See Section 8 for personal protective equipment and Section 13 for 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 formation of dust/aerosols. Avoid contact with skin, eyes, and clothing. Do not eat, drink, or smoke when using this product. Wash hands thoroughly after handling.

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

Store in a tightly closed container in a cool, dry, well-ventilated place. Protect from moisture and contamination.

Keep away from incompatible materials.

Incompatible materials: Not available.

#### 7.3 Specific end use(s)

For laboratory/research use only. Not available for other uses.

## SECTION 8: Exposure controls / personal protection

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occupational exposure limits: No data available.

Derived no-effect level (DNEL): Not available.

Predicted no-effect concentration (PNEC): Not available.

#### 8.2 Exposure controls

Engineering controls: Use local exhaust ventilation or general ventilation to minimize exposure.

Personal protective equipment (PPE):

- Eye/face protection: Safety glasses with side shields or chemical splash goggles.
- Skin protection: Protective gloves (material and breakthrough time not available; select based on risk assessment).
- Body protection: Lab coat or appropriate protective clothing.
- Respiratory protection: If ventilation is inadequate or exposure is possible, use appropriate respiratory protection.

Hygiene measures: Wash hands after handling. Remove contaminated clothing and wash before reuse.

## 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 |
| l) Explosion Limit, Upper                  | No data available |
| m) Decomposition Temperature               | No data available |
| n) Loss on Drying                          | No data available |

| Property                | Value             |
|-------------------------|-------------------|
| 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

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

Heat, open flames, and other ignition sources. Avoid generating dust/aerosols. Other 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

No data available.

#### 12.7 Other adverse effects

No data available.

### SECTION 13: Disposal considerations

#### SECTION 13: Disposal considerations

##### 13.1 Waste treatment methods

Product: Dispose of contents/container in accordance with local/regional/national/international regulations. Treat as chemical waste.

Contaminated packaging: Dispose of as unused product. Do not reuse empty container.

Waste code: Not available.

### SECTION 14: Transport information

#### SECTION 14: Transport information

##### 14.1 UN number

Not available.

##### 14.2 UN proper shipping name

Not available.

##### 14.3 Transport hazard class(es)

Not available.

##### 14.4 Packing group

Not available.

##### 14.5 Environmental hazards

Not available.

##### 14.6 Special precautions for user

Not available.

14.7 Maritime transport in bulk according to IMO instruments

Not available.

### SECTION 15: Regulatory information

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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

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Product identifier: HT2-13C22

Catalog No.: CS-O-41477

CAS No.: 1486469-92-4

Category: Stable Isotopes

Molecular weight: 446.3

Supplier: Clearsynth Labs Ltd., Mumbai, India

Emergency phone: +91-22-245045900

Revision date: 2026-03-17

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