

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

<b>Catalogue Number</b>	CS-O-31313
<b>Product Name</b>	4-Cis-exo-2,3-Norbornanedicarboxylic anhydride
<b>CAS No.</b>	14166-28-0
<b>Category</b>	Impurity
<b>Synonyms</b>	"Exo-Norbornane-2,3-dicarboxylic Anhydride"
<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. 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 : 4-Cis-exo-2,3-Norbornanedicarboxylic anhydride  
CAS Number : 14166-28-0  
Molecular Formula : C<sub>9</sub>H<sub>10</sub>O<sub>3</sub>  
Molecular Weight : 166.2  
Parent Chemical : Lurasidone  
Synonyms : "Exo-Norbornane-2,3-dicarboxylic Anhydride"  
Concentration : Not available

### SECTION 4: First aid measures

#### SECTION 4: First-aid measures

##### 4.1 Description of first aid measures

###### General advice:

- Seek medical attention if symptoms persist or if you feel unwell.
- Show this Safety Data Sheet to the physician in attendance.

###### Inhalation:

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

###### Skin contact:

- Remove contaminated clothing and shoes.
- Wash skin with plenty of water and soap.
- Seek medical attention if irritation develops or persists.

###### Eye contact:

- Rinse cautiously with water for several minutes.
- Remove contact lenses if present and easy to do; continue rinsing.
- Seek medical attention.

###### Ingestion:

- Rinse mouth with water.
- 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 surrounding environment.
- Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Unsuitable extinguishing media:

- Not available.

5.2 Special hazards arising from the substance or mixture

- Thermal decomposition may produce irritating and/or toxic fumes.
- Specific hazardous combustion products: Not available.

5.3 Advice for firefighters

- Wear self-contained breathing apparatus (SCBA) and full protective gear.
- Cool containers exposed to fire with water spray.
- Prevent fire-fighting water from entering drains or watercourses.

## SECTION 6: Accidental release measures

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Avoid breathing dust.
- Avoid contact with skin and eyes.
- Use appropriate personal protective equipment (see Section 8).
- Ensure adequate ventilation.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

- Avoid generating dust.
- Collect spilled material using suitable means (e.g., sweep carefully or use HEPA-filtered vacuum).
- Place in a suitable, labeled container for disposal.
- Clean spill area after material pickup.

6.4 Reference to other sections

- See Section 8 for personal protective equipment.
- See 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 breathing dust and vapors.
- Avoid contact with skin, eyes, and clothing.
- Use with adequate ventilation.
- Wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

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

- Incompatible materials: Not available.

### 7.3 Specific end use(s)

- Laboratory/research use: Impurity/analytical standard (as applicable).
- Other specific uses: Not available.

## SECTION 8: Exposure controls / personal protection

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occupational exposure limits:

- Not available.

Biological limit values:

- 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:

- Wear protective gloves.
- Wear appropriate protective clothing.

Respiratory protection:

- If ventilation is inadequate or dust is generated, use a suitable particulate respirator.

Hygiene measures:

- Do not eat, drink, or smoke when using this product.
- Wash hands and exposed skin after handling.

## 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
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, moisture, and incompatible materials.

- Other conditions to avoid: 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.
- Do not discharge to drains.

#### Contaminated packaging:

- Dispose of as unused product in accordance with applicable regulations.

#### 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

### SECTION 15: Regulatory information

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

- Regulatory status/inventories: Not available.
- GHS classification (where applicable): Not available.

#### 15.2 Chemical safety assessment

- No data available.

## SECTION 16: Other information

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#### Product identification:

- Product name: 4-Cis-exo-2,3-Norbornanedicarboxylic anhydride
- CAS No.: 14166-28-0

- Catalog No.: CS-O-31313
- Synonyms: Exo-Norbornane-2,3-dicarboxylic Anhydride
- Category: Impurity
- Parent chemical: Lurasidone

Supplier:

- Clearsynth Labs Ltd., Mumbai, India

Emergency telephone:

- +91-22-245045900

Revision information:

- Not available.

Disclaimer:

- The information provided is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The supplier shall not be held liable for any damage resulting from handling or from contact with the product.

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