

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

Catalogue Number	CS-O-48158
Product Name	ESTRONE-d4 IN ACETONITRILE 100 µG/ML
CAS No.	53866-34-5
Category	Stable Isotopes
Synonyms	3-Hydroxyestra-1,3,5(10)-trien-17-one-2,4,16,16-d4
Brand	Clearsynth Labs Ltd.
Identified uses	Laboratory Chemicals
Uses advised against	Not available
Company	Clearsynth Labs Ltd. Mumbai, India
Emergency Phone #	+91-22-245045900
REACH No.	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:** Warning



#### Hazard Statement(s)

Code	Statement
H350	Not available
H360	Not available

#### Precautionary Statement(s)

Code	Statement
P203	Not available
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P318	Not available
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 : ESTRONE-d4 IN ACETONITRILE 100 µG/ML

CAS Number : 53866-34-5

Molecular Formula : C<sub>18</sub>H<sub>18</sub>D<sub>4</sub>O<sub>2</sub>

Molecular Weight : 274.39

Parent Chemical : ESTRONE

Synonyms : 3-Hydroxyestra-1,3,5(10)-trien-17-one-2,4,16,16-d<sub>4</sub>

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 develop.
- 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 occurs.
- 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 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

- Flammable solvent may be present (acetonitrile). Vapors may form explosive mixtures with air.
- Hazardous combustion products: Not available.

### 5.3 Advice for firefighters

- Wear self-contained breathing apparatus and full protective gear.
- Cool containers with water spray if exposed to fire.
- Fight fire from a safe distance and protected location where possible.

## 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 vapors/mist and contact with skin/eyes.
- Use appropriate personal protective equipment (see Section 8).
- Eliminate ignition sources if safe to do so.

#### 6.2 Environmental precautions

- Prevent further leakage or spillage if safe to do so.
- 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 with inert absorbent material.
- Collect in suitable, closed containers for disposal.
- Clean spill area with appropriate solvent-resistant methods; avoid generating aerosols.

#### 6.4 Reference to other sections

- Disposal considerations: see Section 13. Exposure controls/PPE: see Section 8.

## SECTION-7: Handling and storage

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- Handle in accordance with good laboratory hygiene and safety practice.
- Avoid breathing vapors/mist. Avoid contact with skin, eyes, and clothing.
- Use only with adequate ventilation.
- Keep away from heat, sparks, open flames, and hot surfaces. No smoking.

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

- Store tightly closed in original container.
- Store in a cool, dry, well-ventilated place.
- Keep container away from ignition sources.
- Incompatibilities: Not available.

#### 7.3 Specific end use(s)

- For laboratory/research use. Not available for other specific uses.

## 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: Provide adequate ventilation. Use local exhaust where vapors/mist may be generated.
- Personal protective equipment (PPE):
- Eye/face protection: Safety glasses with side shields or chemical splash goggles.
- Skin protection: Protective gloves resistant to organic solvents; protective clothing as appropriate.
- Respiratory protection: If ventilation is inadequate, use appropriate respiratory protection per applicable standards.
- Hygiene measures: Wash hands after handling. Do not eat, drink, or smoke when using this product.

## 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

Property	Value
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

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##### 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, sparks, open flames, and other ignition sources.  
- 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

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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

- No data 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.

- Treat as hazardous waste due to organic solvent content.

- Do not discharge to drains.

- Contaminated packaging: Dispose of as unused product unless cleaned in accordance with applicable regulations.

## 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 is a solution in acetonitrile; transport classification depends 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

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- CAS No.: 53866-34-5

- Synonyms: 3-Hydroxyestra-1,3,5(10)-trien-17-one-2,4,16,16-d4

- Supplier: Clearsynth Labs Ltd., Mumbai, India

- Emergency phone: +91-22-245045900

Disclaimer: The information provided is based on available product identification details and is intended for use in an SDS context. Data not provided by the requester is listed as Not available. Users must determine applicability and compliance with all applicable regulations.

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