# Material Safety Data Sheet

## Section 1 : Chemical Product Company Identification

| | |
|---|---|
| Product Name | Estra-5(10),9(11)-diene-3,17-dione 3-ethylene ketal |
| CAS No. | 5571-36-8 |
| Identified uses | Pharmaceutical Reference Standard |
| Details of the Supplier Company | SynZeal Research Pvt Ltd<br>Plot No. F, Ganesh Industrial Estate<br>423/24/8, MahagujaratInd Estate<br>Sarkhej-Bavla Road,<br>Ahmedabad-382 213.<br>Gujarat, India. |
| Telephone | +91-7969225400 |

## Section 2 : Chemical Information

| | |
|---|---|
| Chemical Name | Spiro[1,3-dioxolan-2,3estra-5(10),9(11)dien]-17-one |
| CAS No. | 5571-36-8 |
| Synonyms | Dienogest EP Impurity L |
| Molecular Weight | 314.4 |
| Molecular Formula | C20H26O3 |

## Section 3 : Hazards Identification

| | |
|---|---|
| **Emergency Overview:** | |
| Appearance | Pale Yellow Solid |
| Target Organs | NA |
| **Potential Health Effects:** | |
| Eye | NIL |
| Skin | NIL |
| Ingestion | NIL |
| Inhalation | NIL |
| Chronic | NIL |

| **Hazard Statement:** |
|---|
| **H302:** Harmful if swallowed. |
| **H312:** Harmful in contact with skin. |
| **H315:** Causes skin irritation. |
| **H319:** Causes serious eye irritation. |
| **H332:** Harmful if inhaled. |

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| **H335:** May cause respiratory irritation. |
| **Precautionary Statement:** |
| **P261:** Avoid breathing dust/fume/gas/mist/vapours/spray. |
| **P262:** Do not get in eyes, on skin, or on clothing. |
| **P271:** Use only outdoors or in a well-ventilated area. |
| **P280:** Wear protective gloves/protective clothing/eye protection/face protection. |
| **P302 + P352:** IF ON SKIN: Wash with plenty of water |
| **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 and easy to do. Continue rinsing. |
| **P308 + P313:** IF exposed or concerned: Get medical advice/attention. |

## Section 4 : First Aid Measures

| | |
|---|---|
| Eye | Wash with plenty of water |
| Skin | Wash with plenty of water |
| Ingestion | Medical assistance for gastric lavage. |
| Inhalation | Remove to fresh air, artificial respiration or oxygen if necessary. |
| Notes to Physician | Estra-5(10),9(11)-diene-3,17-dione 3-ethylene ketal can be washed with plenty of water in case of any exposure |

## Section 5 : Firefighting Measures

| | |
|---|---|
| Extinguishing Media | Carbon dioxide, dry chemical powder, foam, water. |
| Unusual Fire and Explosion Hazards | None indicated |

## Section 6 : Accidental Release Measures

| | |
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| Personal Precautions | Wear self-contained breathing apparatus, avoid dust formation. |
| Spills/Leaks | Wash with plenty of water, provide adequate ventilation. |

## Section 7 : Handlings and Storage

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|---|---|
| Handling | Wear surgical gloves |
| Storage | |

## Section 8 : Exposure Controls, Personal Protection

| | |
|---|---|
| Respiratory Protection | Self-contained breathing apparatus |
| Exposure Limits | NA |

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|---|---|
| Eye Protection | Wear safety goggles |
| Other Protective Equipment | Protective clothing |
| Skin | Full sleeves apron |
| Clothing | Cotton |

## Section 9 : Physical and Chemical Properties

| | |
|---|---|
| Appearance | Pale Yellow Solid |
| Odor | Odor less |
| Melting Point | NA |
| pH | Basic |
| Vapor Pressure | NA |
| Vapor Density | NA |
| Evaporation Rate | NA |
| Viscosity | NA |
| Boiling Point | NA |
| Decomposition Temp | NA |
| Auto ignition Temp. | NA |
| Flash Point | NA |
| NFPA Rating | NA |
| **Explosion Limits** | |
| Lower | NA |
| Upper | NA |
| Solubility | Chloroform, Methanol |
| Specific Gravity/Density | NA |

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## Section 10 : Stability and Reactivity

| | |
|---|---|
| Chemical Stability | |
| Conditions to avoid | Direct contract to skin |
| Incompatibilities with other Materials | Keep away |
| Hazardous Decomposition Products | NIL |
| Hazardous Polymerization | NIL |

## Section 11 : Toxicological Information

| | |
|---|---|
| CAS | NA |
| LD50/LC50 | NA |
| Carcinogenicity | NIL |

| | |
|---|---|
| Epidemiology | NIL |
| Teratogenicity | NIL |
| Reproductive Effects | NIL |
| Neurotoxicity | NIL |
| Mutagencity | NIL |
| Other Studies | NA |

## Section 12 : Ecological Information

Data not available

## Section 13 : Disposal Consideration

| | |
|---|---|
| RCRA P-Series | Can be incinerated |
| RCRA U-Series | NA |

## Section 14 : Transport Consideration

**UN-Number**

ADR/RID: IMDG: IATA:

**UN proper shipping name**

ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

**Transport hazard class(es)**

ADR/RID: IMDG: IATA:

**Packaging Group**

ADR/RID: IMDG: IATA:

**Environmental hazards**

ADR/RID: No IMDG Marine pollutant: No IATA: No

**Special precautions for users**

**Further information**

## Section 15 : Regulatory Information

| | |
|---|---|
| TSCA | Attached the letter |
| Health & Safety Reporting List | No data available |
| Chemical Test Rules | Chemical analysis report is attached |

## Section 16 : Additional Information

This product is not bioactive, non-radioactive. It is for R&D use only. Not for drug, household or other uses.

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge. It does not represent any guarantee of the product.

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