

Material Safety Data Sheet

Section 1 : Chemical Product Company Identification

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|---------------------------------|---|
| Product Name | Estra-5(10),9(11)-diene-3,17-dione Cyclic 3,17-Bis(1,2-ethanediyl acetal) |
| CAS No. | 57905-07-4 |
| Identified uses | Pharmaceutical Reference Standard |
| Details of the Supplier Company | SynZeal Research Pvt Ltd Plot No. F, Ganesh Industrial Estate 423/24/8, MahagujaratInd Estate Sarkhej-Bavla Road, Ahmedabad-382 213. Gujarat, India. |
| Telephone | +91-75750 02050 |

Section 2 : Chemical Information

| | |
|-------------------|---|
| Chemical Name | (8'S,13'S,14'S)-13'-methyl-1',4',6',7',8',12',13',14',15',16'-decahydro-2'H-dispiro[[1,3]dioxolane-2,3'-cyclopenta[a]phenanthrene-17',2''-[1,3]dioxolane] |
| CAS No. | 57905-07-4 |
| Molecular Weight | 358.5 |
| Molecular Formula | C22H30O4 |

Section 3 : Hazards Identification

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

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 Cyclic 3,17-Bis(1,2-ethanediyl acetal) can be washed with plenty of water in case of any exposure |

Section 5 : Firefighting Measures

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|------------------------------------|---|
| 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 | Can be stored at room temperature |

Section 8 : Exposure Controls, Personal Protection

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|----------------------------|------------------------------------|
| Respiratory Protection | Self-contained breathing apparatus |
| Exposure Limits | NA |
| Eye Protection | Wear safety goggles |
| Other Protective Equipment | Protective clothing |
| Skin | Full sleeves apron |
| Clothing | Cotton |

Section 9 : Physical and Chemical Properties

| | |
|------------------|-------------|
| Appearance | White 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 |

Section 10 : Stability and Reactivity

| | |
|--|------------------------|
| Chemical Stability | Stable |
| Conditions to avoid | Direct contact 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 |
| Mutagenicity | 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 |

