

Cayman Chemical Company
1180 E. Ellsworth Rd.
Ann Arbor, MI 48108

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1. Product and Company Identification

Product Code: 10006315
Product Name: Estradiol
Manufacturer Information
Company Name: Cayman Chemical Company
Emergency Contact: Cayman Chemical Company (800)364-9897
Information: Cayman Chemical Company (734)971-3335
Chemical Family: Miscellaneous
CAS Number: 50-28-2
Synonyms: estra-1,3,5(10)-triene-3,17.beta.-diol; .beta.-Estradiol; 17.beta.-Estradiol; 17.beta.-Oestradiol

2. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Percentage	OSHA PEL	ACGIH TLV	Other Limits
1. .beta.-Estradiol	50-28-2	100.0 %	No data.	No data.	No data.
Hazardous Components (Chemical Name)	RTECS #	OSHA STEL	OSHA CEIL	ACGIH STEL	ACGIH CEIL
1. .beta.-Estradiol	KG2975000	No data.	No data.	No data.	No data.

3. Hazards Identification

Emergency Overview: No data available.
Route(s) of Entry: Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes Other: Injection
Potential Health Effects (Acute and Chronic): California Prop. 65 carcinogen.
 Material may be irritating to the mucous membranes and upper respiratory tract.
 May be harmful by inhalation, ingestion, or skin absorption.
 May cause adverse reproductive effects in males and/or females.
 May cause cancer.
 May cause eye, skin, or respiratory system irritation.
 Toxic
 The toxicological properties of this compound have not been fully evaluated.
LD 50/LC 50: Please refer to Section 11.
Signs and Symptoms Of Exposure: No data available.

4. First Aid Measures

Emergency and First Aid Procedures: If inhaled remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
 If swallowed, wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
 In case of contact with eyes, hold eyelids apart and flush eyes with plenty of water. After initial flushings, remove any contact lenses and continue flushing for at least 20 minutes. Have eyes examined and tested by medical personnel.
 In case of skin contact, immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

5. Fire Fighting Measures

Flash Pt: No data.
Explosive Limits: LEL: No data. UEL: No data.
Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Formula:	C18H24O2
Molecular Weight:	272.40
pH:	No data.
Appearance and Odor:	A crystalline solid

10. Stability and Reactivity

Stability:	Unstable [<input type="checkbox"/>] Stable [<input checked="" type="checkbox"/>]
Conditions To Avoid - Instability:	protect from moisture
Incompatibility - Materials To Avoid:	strong oxidizing agents
Hazardous Decomposition Or Byproducts:	carbon dioxide carbon monoxide
Hazardous Polymerization:	Will occur [<input type="checkbox"/>] Will not occur [<input checked="" type="checkbox"/>]
Conditions To Avoid - Hazardous Polymerization:	No data available.

11. Toxicological Information

Toxicological Information:	The toxicological effects of this compound have not been thoroughly studied.
Chronic Toxicological Effects:	Investigated as a tumorigen, teratogen, carcinogen, mutagen, and reproductive effector.
	<p>Target organ data:</p> <ul style="list-style-type: none"> Effects on embryo or fetus (fetotoxicity) Effects on fertility (abortion) Effects on fertility (female fertility index) Effects on fertility (litter size) Effects on fertility (male fertility index) Effects on fertility (other measures of fertility) Effects on fertility (pre-implantation mortality) Effects on fertility (post-implantation mortality) Effects on newborn (delayed effects) Maternal effects (menstrual cycle changes or disorders) Maternal effects (other effects) Maternal effects (ovaries, fallopian tubes) Maternal effects (parturition) Maternal effects: (uterus, cervix, vagina) Paternal effects (other effects on male) Paternal effects (prostate, seminal vessicle, Cowper's gland, accessory glands) Paternal effects (spermatogenesis) Paternal effects (testes, epididymis, sperm duct) Specific developmental abnormalities (endocrine system) Specific developmental abnormalities (urogenital system) <p>Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Estradiol RTECS Number: KG2975000</p>
Carcinogenicity/Other Information:	No data available.
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No

12. Ecological Information

Ecological Information:	Runoff from fire control or dilution water may cause pollution.
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13. Disposal Considerations

Waste Disposal Method:	Dispose in accordance with local, state and federal regulations.
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14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name: No data available.
Additional Transport Information: Transport in accordance with local, state, and federal regulations.

15. Regulatory Information

US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. .beta.-Estradiol	50-28-2	No	No	No	No

US EPA CAA, CWA, TSCA

Hazardous Components (Chemical Name)	CAS #	EPA CAA	EPA CWA NPDES	EPA TSCA	CA PROP 65
1. .beta.-Estradiol	50-28-2	No	No	No	Yes

16. Other Information

Company Policy or Disclaimer

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