



Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Estradiol Valerate USP

55-1698

Section 1: Identification

Product Name Estradiol Valerate USP
Commercial Name Not available.
Product Use Not available.
Restrictions On Use Not available.

Product Code 55-1698

Company PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: Carcinogenicity 1A Reproductive toxicity 1A
CFR 1910.1200

Signal Word DANGER

Hazard Statement(s) May cause cancer. May damage fertility. Suspected of damaging the unborn child
Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P281 Use personal protective equipment as required.
Response	P308+P313 IF exposed or concerned: Get medical advice/attention.
Storage	Not available.
Disposal	Not available.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Estradiol Valerate USP
% By Weight 100
CAS# 979-32-8
Molecular Weight 356.5 g/mole
Chemical Formula C₂₃H₃₂O₃
Synonym(s) Estra-1,3,5(10)-triene-3,17alpha-diol valerate

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Estradiol Valerate USP	979-32-8	100	Not Available.	Not Available.

Section 4: First-Aid Measures

Inhalation	Quickly transport the person out of the contaminated area and put it to rest in fresh air. Seek immediately and mandatorily emergency services or a physician and show them this Material Safety Data Sheet.
Skin Contact	Remove all clothing and footwear from top to bottom and rinse immediately with plenty of water (= 15 min). Seek immediate and mandatory relief (emergency services or physician) and show them this Safety Data Sheet. Retrieve soiled clothing in a waterproof bag for further processing.
Eye Contact	Rinse immediately and thoroughly with water, including under the eyelids, for at least 15 minutes. Seek immediate and mandatory relief (emergency services or ophthalmologist) even in the absence of symptoms and show them this Safety Data Sheet.
Ingestion	Never give anything by mouth. Do not induce vomiting. Seek immediate and mandatory relief (emergency services or physician) and show them this Safety Data Sheet.
Symptoms/Effects	
Acute	The effects of an overdose are usually a feeling of breast tenderness, swelling abdomino-pelvic, irritability, nausea, vomiting and / or bleeding. There is no antidote and treatment should be symptomatic.
Delayed	The effects of an overdose are usually a feeling of breast tenderness, swelling abdomino-pelvic, irritability, nausea, vomiting and / or bleeding. There is no antidote and treatment should be symptomatic.

Immediate Medical Attention

Not available.

Section 5: Fire-Fighting Measures**Suitable Extinguishing Media**

Use carbon dioxide, dry chemical, or water spray.

Unsuitable Extinguishing Media

Not available.

Products of Combustion

Dust can form an explosive mixture in air. Fine particles (such as dust and mists) may fuel fires/explosions. Toxic or corrosive gases in particular carbon oxides could be emitted.

Firefighters Special Equipment and Precautions

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus. Stay on the side from which the wind comes. Evacuate the personnel away from the fumes. Avoid release of extinguishing waters into the environment.

Section 6: Accidental Release Measures

For non-emergency personnel: Do not breathe dust. Evacuate and make evacuate the area without walking through spilled. Prevent access to contaminated area. Alert relief supplies. For emergency responders: Equip yourself before entering the contaminated area. (see Section 8) Environmental precautions: Do not discharge into the environment or sewers. Collect spilled material in a closed and labelled container. For disposal see section 13. Containment method: Contain the source of the spill only if it is safe. Cut (if possible) the general ventilation. Cleaning-up method: Staff which is not directly required must be evacuated. Cleaning operations must be undertaken by persons duly trained and equipped. Pick up spilled substances using a method of controlling the production of dust. Use a damp cloth or a HEPA filter vacuum. Methods to avoid: Never use a vacuum cleaner which is not suitable for explosive atmospheres.

Section 7: Handling and Storage

Handling: Avoid open handling. Minimize production of dust. Use local exhaust ventilation or work under a fume hood laboratory. Do not inhale and avoid contact with skin, eyes and clothing. During handling, use personal protective equipment (see Section 8). All facilities and all equipment must be connected to the earth. Separate work clothes from street clothes. Do not eat, drink or smoke in work areas. Wash hands after handling. Take consistently a shower after work. Remove contaminated clothing and protective equipment when leaving work areas. Storage: Store at room temperature in a properly labeled container. Keep away from light, heat, sparks and flame.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Not available.
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Engineering Controls

The collective protection should be used as the primary means of controlling exposure. Use process enclosures, local exhaust ventilation or other means of ventilation to maintain levels of airborne particulates as low as possible.

Personal Protection

Hand Protection: Type of material : Rubber or Nitrile Rubber Glove thickness: = 0.2 µm Change your gloves in compliance with Good Occupational Hygiene Practices and with safety instructions Eye Protection: Safety glasses or goggles. Skin Protection: Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas. Respiratory Protection: Wear appropriate respirator protection with a protection factor sufficient to guarantee a risk of exposure as low as possible. Recommended: air supplied hood

Section 9: Physical and Chemical Properties

Appearance	White. Solid – crystalline powder		
Odor	Odorless.		
Odor Threshold	Not available.		
Melting Point	143-150°C	pH	Not available.
Freezing Point	Not available.	Vapor Pressure	Not applicable.
Boiling Point/Range	Not available.	Vapor Density	Not available.
Decomposition temperature	Not available.	Viscosity	Not available.
Partition Coefficient: n-octanol/water	Not available.	Evaporation Rate	Not available.
Flash Point	Not available.	Autoignition temperature	Not available.
Flammability	Not available.	Flammability or Explosive Limits:	
		Lower	Not available.
		Upper	Not available.
Solubility(ies)	Soluble: Benzyl benzoate, dioxane, methanol and castor oil Sparingly soluble: peanut and sesame oil Practically insoluble: water		
Other	Not available.		

Section 10: Stability and Reactivity

Reactivity	Not available.
Chemical Stability	Chemically stable
Hazardous Polymerization	Not available.
Conditions to Avoid	Fine particles (such as dust and mists) may fuel fires/explosions.
Incompatible Materials	Not available.
Hazardous Decomposition Products	oxic fumes of carbon monoxide and carbon dioxide can be released

Section 11: Toxicological Information

RTECS	KG5793000
Acute Toxicity	Not available.
Skin Corrosion/Irritation	Not available.
Serious Eye Damage/Irritation	Not available.
Respiratory or Skin Sensitization	Not available.
Germ Cell Mutagenicity	Not available.
Carcinogenicity	IARC: Category 1 NTP: Listed
Reproductive Toxicity	May damage fertility. Suspected of damaging the unborn child
Routes of Entry	Not available

Symptoms Related to Exposure

Not available.

Potential Health Effects

Not available.

Target Organ(s) Liver - changes in liver weight Endocrine - changes in pituitary weight Nutritional and Gross Metabolic - weight loss**Section 12: Ecological Information****Ecotoxicity**

Not available.

Persistence and Degradability

Not available.

Bioaccumulative Potential

Not available.

Mobility in Soil

Not available.

Other Adverse Effects

Not available.

Section 13: Disposal Considerations**Waste Disposal**

Incineration is the recommended method for the elimination of this substance. Observe all local and national regulations when disposing of this substance. Do not discharge wastewater into the environment.

Disposal of Container

Not available.

Other Considerations

Not available.

Section 14: Transport Information**DOT Classification**

Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

Section 15: Regulatory Information**Regulations**

Not available.

Other

WHMIS CLASS D-2A: Material causing other toxic (Canada) effects (VERY TOXIC); DSCL (EEC) This product is not classified according to the EU regulations.; Gloves.; Lab coat.; Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.; Safety glasses.

Section 16: Other Information

The above information is based on our present knowledge and experience and is intended as a description of the safety requirements for our product. It is not intended as an assurance that the product in question has certain properties.