

**Safety Data Sheet**

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

Section 1: Identification**Product Name** ESTRADIOL USP HEMIHYDRATE NON-MICRONIZED**Commercial Name** Estradiol Hemihydrate**Product Use** N/A**Restrictions On Use** N/A**Product Code** 30-5011**Company** PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300**Section 2: Hazard(s) Identification****OSHA Haz Com:** Care. 1B Repr. 1B Repr. 1B STOT RE 1 Lact
CFR 1910.1200**Signal Word** DANGER**Hazard Statement(s)** May cause cancer. May damage the unborn child. May damage fertility. May cause harm to breast-fed children. Causes damage to organs through prolonged or repeated exposure.**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 P260 - Do not breathe dust/fume/gas/mist/vapours/spray P263 - Avoid contact during pregnancy/while nursing P264 - Wash hands and other exposed areas thoroughly after handling P281 - Use personal protective equipment as required

Response

P314 - Get medical advice/attention if you feel unwell

Storage

Not available.

Disposal

P501 - Dispose of contents/container to: Hazardous waste. Comply with applicable regulations

Section 3: Composition/Information on Ingredients**Substance/Mixture** Substance**Components** Estradiol Hemihydrate**% By Weight** 100**CAS#** 35380-71-3**Molecular Weight** N/A**Chemical Formula** N/A**Synonym(s)** N/A**Mixtures**

| Name | CAS# | % by Weight | TLV/PEL | LC50/LD50 |
|-----------------------|------------|-------------|---------|-----------|
| Estradiol Hemihydrate | 35380-71-3 | 100 | N/A | N/A |

Section 4: First-Aid Measures

| | |
|-------------------------|---|
| Inhalation | Move to fresh air in case of accidental inhalation. Assure fresh air inhalation breathing. Obtain medical attention if breathing difficulty persists. |
| Skin Contact | Rinse skin with water/shower. Wash with plenty of soap and water, |
| Eye Contact | Rinse with water while holding the eyes wide open. Contact lenses should be removed. Obtain medical attention if pain, blinking or redness persist. |
| Ingestion | Rinse mouth out with water. The following symptoms may occur: If you feel unwell, seek medical advice. Prolonged medical observation may be indicated |
| Symptoms/Effects | |
| Acute | N/A |
| Delayed | N/A |

Immediate Medical Attention

If you feel unwell, seek medical advice (show the label where possible). Delayed adverse effects possible In all cases of doubt, or when symptoms persist, seek medical attention. If possible show this sheet, if not available show packing or label

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

Small amounts: Use extinguishing media appropriate for surrounding fire. Extinguishing blanket. Carbon dioxide. Dry powder.

Large amounts: Not applicable

Unsuitable Extinguishing Media

Water may be ineffective in firefighting due to low solubility

Products of Combustion

N/A

Firefighters Special Equipment and Precautions

Small amounts: Use normal individual fire protective equipment. Large amounts: Not applicable

Section 6: Accidental Release Measures

Avoid raising dust. Wear suitable protective clothing, gloves and eye or face protection. Avoid any direct contact with the product. Evacuate unnecessary personnel. Large amounts: Not applicable Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection. Wear suitable protective clothing and gloves Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Ensure waste is collected and contained. Clean thoroughly. Poorly soluble in water. Clean with the help of detergents. Collect all waste in suitable and labelled containers and dispose according to local legislation. Wash the non-recoverable remainder with: Sodium hypochlorite solution

Section 7: Handling and Storage

Small amounts: See Heading 1. When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The attention of the user is drawn to the risks possibly incurred by using the product for any other purpose than that for which it was intended. Avoid contact during pregnancy/while nursing. Handle and open container with care handle until all safety precautions have been read and understood. Avoid any direct contact with the product. Obtain special instructions before use. Handle in accordance with good industrial hygiene and safety procedures. Small amounts: Material should be handled in a laboratory hood whenever possible. Technical measures Comply with applicable regulations. Storage in light resistant container, protect from light. Store according to local legislation. Incompatible products: Strong oxidizing agents

Section 8: Exposure Controls/Personal Protection

| | |
|-----------------------------|--|
| Exposure Limits | Material should be handled in a laboratory hood whenever possible. |
| Engineering Controls | N/A |
| Personal Protection | Hand protection Gloves. Chemical resistant PVC gloves (to European standard EN 374 or equivalent). Eye protection Wear eye protection. DIN EN 166. Skin and body protection Lab coat. Wear suitable protective clothing. DIN EN 13034. Respiratory protection Quarter mask (DIN EN 140). Wear appropriate breathing apparatus if air renewal not sufficient to maintain dust/vapour under TLV. |

Section 9: Physical and Chemical Properties

| | | | |
|---|--|--|-----|
| Appearance | White or creamy white, small crystals or crystalline powder | | |
| Odor | Odorless | | |
| Odor Threshold | N/A | | |
| Melting Point | 173-179C | pH | N/A |
| Freezing Point | N/A | Vapor Pressure | N/A |
| Boiling Point/Range | N/A | Vapor Density | N/A |
| Decomposition temperature | N/A | Viscosity | N/A |
| Partition Coefficient: n-octanol/water | N/A | Evaporation Rate | N/A |
| Flash Point | N/A | Autoignition temperature | N/A |
| Flammability | N/A | Flammability or Explosive Limits: | |
| | | Lower | N/A |
| | | Upper | N/A |
| Solubility(ies) | Soluble in dioxane, in acetone, sparingly soluble in ethanol | | |
| Other | N/A | | |

Section 10: Stability and Reactivity

| | |
|---|---|
| Reactivity | Stable under normal conditions |
| Chemical Stability | No additional information available |
| Hazardous Polymerization | Small amounts: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. Large amounts: not applicable |
| Conditions to Avoid | No additional information available |
| Incompatible Materials | Small amounts: None under normal use. Large amounts: Not applicable |
| Hazardous Decomposition Products | When heated to decomposition, emits dangerous fumes. Large amounts: Not applicable |

Section 11: Toxicological Information
RTECS N/A

Acute Toxicity

Potential Adverse human health effects and symptoms: Avoid any direct contact with the product. Small amounts: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. See first aid section of this material safety data sheet. Large amounts: Not applicable.

Skin Corrosion/Irritation

N/A

Serious Eye Damage/Irritation

N/A

Respiratory or Skin Sensitization

N/A

Germ Cell Mutagenicity

N/A

Carcinogenicity

N/A

Reproductive Toxicity

May damage fertility. May damage the unborn child. May cause harm to breast-fed children

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Routes of Entry

N/A

Symptoms Related to Exposure

N/A

Potential Health Effects

N/A

Target Organ(s) Causes damage to organs through prolonged or repeated exposure**Section 12: Ecological Information****Ecotoxicity**

N/A

Persistence and Degradability

N/A

Bioaccumulative Potential

Log Pow: 3.94 at 20C (6.10)

Mobility in Soil

N/A

Other Adverse Effects

N/A

Section 13: Disposal Considerations**Waste Disposal**

Dispose in a safe manner in accordance with local/national regulations. Do not empty into drains, dispose of this material and its container recommendations at hazardous or special waste collection point.

Disposal of Container

N/A

Other Considerations

N/A

Section 14: Transport Information**DOT Classification**

N/A

Section 15: Regulatory Information**Regulations**

N/A

Other

N/A

Section 16: Other Information

N/A