

### Section 1: Identification

<b>Common Name/Trade Name</b>	ESTRIOL USP	
<b>Supplier Information</b>	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	<b>IN CASE OF EMERGENCY:</b> Chemtrec 1 (800) 424-9300 (24 hours) NSW Poisons Information Centre: 131 126 (24 hours)
<b>Distributor Name</b>	Bella Corp Trading Pty Ltd 6/34 Dominions Road, Ashmore QLD 4214, Australia Telephone: 07 5597 4169 Email: <a href="mailto:bellacorp@bellacorp.com.au">bellacorp@bellacorp.com.au</a>	
<b>Product Synonym(s)</b>	Estra-1,3,5(10)-triene-3,16,17-triol, (16 alpha, 17 beta)-. Oestriol.	
<b>Relevant Use(s) of Product</b>	Manufacture or Compounding of Substances	

### Section 2: Hazards Identification

<b>Classification of Substance or Mixture</b>	Carcinogenicity (Category 1), Reproductive toxicity (Category 1)	
<b>Signal Word</b>	Danger	
<b>Hazard Statement(s)</b>	H350 H360	May cause cancer May damage fertility or the unborn child
<b>Pictogram(s)</b>		
<b>Precautionary Statement(s)</b>	P201 P202 P281 P308+P313 P405 P501	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. IF exposed or concerned Get medical advice/attention. Store locked up. Dispose of contents/container to an approved waste disposal plant.
<b>Hazards Not Otherwise Classified</b>	No data available	
<b>Ingredient(s) with Unknown Toxicity</b>	No data available	

### Section 3: Composition/Information on Ingredients

<b>Chemical Name</b>	Estra-1,3,5(10)-triene-3,16,17-triol, (16 alpha, 17 beta)-
<b>Common Name</b>	Estriol
<b>CAS Number</b>	50-27-1
<b>Impurities and/or Stabilizing Additives</b>	No data available

### Section 4: First Aid Measures

<b>General Advice</b>	Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention.
<b>If Inhaled</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>In Case of Skin Contact</b>	Remove and isolate contaminated clothing and shoes. Rinse skin with water/shower. Get medical attention if irritation develops and persists. For minor skin contact, avoid spreading material on unaffected skin.
<b>In Case of Eye Contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>If Swallowed</b>	Rinse mouth. Ingestion of a large amount does occur, call a poison control center immediately.
<b>Most Important Symptoms and Effects</b>	Endocrine system effects.

## Section 5: Fire Fighting Measures

<b>Suitable Extinguishing Media</b>	Suitable extinguishing media: Foam. Dry chemical or CO <sub>2</sub> . Use fire-extinguishing media appropriate for surrounding materials. Use water spray to cool unopened containers. As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing. Use standard firefighting procedures and consider the hazards of other involved materials.
<b>Special Hazards Arising From the Substance/Mixture</b>	No unusual fire or explosion hazards noted.
<b>Special PPE and/or Precautions for Firefighters</b>	Wear suitable protective equipment.

## Section 6: Accidental Release Measures

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material. Wear appropriate personal protective equipment.
<b>Methods and Materials Used for Containment</b>	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see section 13 of the SDS. Clean surface thoroughly to remove residual contamination. Avoid discharge into drains, water courses or onto the ground.
<b>Cleanup Procedures</b>	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see section 13 of the SDS. Clean surface thoroughly to remove residual contamination. Avoid discharge into drains, water courses or onto the ground.

## Section 7: Handling and Storage

<b>Precautions for Safe Handling</b>	As a general rule, when handling, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly. Use of a designated area is recommended for handling of potent materials.
<b>Conditions for Safe Storage</b>	Preserve in tight, light-resistant container. Store at 0 to 30C.

## Section 8: Exposure Controls/Personal Protection

<b>Components with Workplace Control Parameters</b>	No exposure limits noted for ingredient(s). No biological exposure limits noted for the ingredient(s).
<b>Appropriate Engineering Controls</b>	Airborne exposure should be controlled by engineering controls such as general dilution ventilation, local exhaust ventilation, or process enclosure. Local exhaust ventilation is generally preferred to general exhaust because it can control the contaminant at its source, preventing dispersion into the work area. An industrial hygiene survey involving air monitoring may be used to determine the effectiveness of engineering controls. Effectiveness of engineering controls intended for use with highly potent materials should be assessed by use of nontoxic surrogate materials. Handle in accordance with good industrial hygiene and safety practice.
<b>PPE - Eye/Face Protection</b>	Safety glasses with side-shields are recommended. Face shields or goggles may be required if splash potential exists or if corrosive materials are present. Approved eye protection is preferred. Maintain eyewash facilities in the work area.
<b>PPE - Skin Protection</b>	Hand protection: Consider double gloves. Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent. Train employees in proper gowning and degowning practices. Wear disposable lab coat, disposable sleeve covers and two pair of gloves as appropriate for the task. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors.
<b>PPE - Body Protection</b>	Hand protection: Consider double gloves. Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent. Train employees in proper gowning and degowning practices. Wear disposable lab coat, disposable sleeve covers and two pair of gloves as appropriate for the task. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use. Do not wear protective garments in common areas (e.g., cafeterias) or out-of-doors. Wear appropriate thermal protective clothing when necessary.
<b>PPE - Respiratory Protection</b>	Where respirators are deemed necessary to reduce or control occupational exposures, use respiratory protection and have an effective respirator program in place.

## Section 9: Physical and Chemical Properties

<b>Appearance</b>	White or almost white crystalline powder.
<b>Upper/Lower Flammability or Explosive Limits</b>	Not available.
<b>Odor</b>	Odorless
<b>Vapor Pressure</b>	< 0.0000001 kPa at 25°C
<b>Odor Threshold</b>	No data available
<b>Vapor Density</b>	Not available.
<b>pH</b>	Not available
<b>Relative Density</b>	Not available
<b>Melting Point/Freezing Point</b>	280-285°C
<b>Solubility</b>	Insoluble in water. Freely soluble in pyridine; soluble in acetone, in dioxane, in chloroform, in ether and dioxane; sparingly soluble in alcohol.
<b>Initial Boiling Point and Boiling Range</b>	Not available
<b>Flash Point</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Flammability (Solid, Gas)</b>	Not available
<b>Partition Coefficient</b>	(n-octanol/water): 2.45
<b>Auto-Ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not available

## Section 10: Stability and Reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical Stability</b>	Stable at normal conditions.
<b>Possibility of Hazardous Reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to Avoid</b>	Contact with incompatible materials.
<b>Incompatible Materials</b>	Oxidizing agents.
<b>Hazardous Decomposition Products</b>	Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

## Section 11: Toxicological Information

<b>Acute Toxicity - LD50 Oral</b>	No data available. Based on information from therapeutic use, this material may cause endocrine effects.
<b>Acute Toxicity - Inhalation</b>	Due to lack of data the classification is not possible.
<b>Acute Toxicity - Dermal</b>	Based on information from therapeutic use, this material may cause endocrine effects.
<b>Acute Toxicity - Eye</b>	Due to lack of data the classification is not possible.
<b>Skin Corrosion/Irritation</b>	Knowledge about health hazard is incomplete.
<b>Serious Eye Damage/Irritation</b>	Knowledge about health hazard is incomplete.
<b>Respiratory or Skin Sensitization</b>	No data available
<b>Germ Cell Mutagenicity</b>	No data available
<b>Carcinogenicity IARC</b>	May cause cancer. Long term use of estrogens in humans has shown an increased risk of endometrial, breast and ovarian cancer. In certain animal specials, long term continuous administration of estrogens increased the frequency of cancer of the breast, cervix, vagina, pancreas, testis, uterus and liver.
<b>Carcinogenicity ACGIH</b>	May cause cancer. Long term use of estrogens in humans has shown an increased risk of endometrial, breast and ovarian cancer. In certain animal specials, long term continuous administration of estrogens increased the frequency of cancer of the breast, cervix, vagina, pancreas, testis, uterus and liver.
<b>Carcinogenicity NTP</b>	May cause cancer. Long term use of estrogens in humans has shown an increased risk of endometrial, breast and ovarian cancer. In certain animal specials, long term continuous administration of estrogens increased the frequency of cancer of the breast, cervix, vagina, pancreas, testis, uterus and liver.
<b>Carcinogenicity OSHA</b>	May cause cancer. Long term use of estrogens in humans has shown an increased risk of endometrial, breast and ovarian cancer. In certain animal specials, long term continuous administration of estrogens increased the frequency of cancer of the breast, cervix, vagina, pancreas, testis, uterus and liver.
<b>Reproductive Toxicity</b>	May damage fertility or the unborn child. Studies suggest an association between congenital malformations in the fetus and maternal use of some estrogens during pregnancy.
<b>Specific Target Organ Toxicity - Single Exposure</b>	Knowledge about health hazard is incomplete.
<b>Specific Target Organ Toxicity - Repeated Exposure</b>	Knowledge about health hazard is incomplete.
<b>Aspiration Hazard</b>	No data available

## Section 12: Ecological Information

<b>Toxicity</b>	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
<b>Persistence and Degradability</b>	No data is available on the degradability of this product.
<b>Bio-accumulative Potential</b>	Not available.
<b>Mobility in Soil</b>	Not available.
<b>Other Adverse Effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## Section 13: Disposal Considerations

<b>Waste Treatment Methods Product</b>	Dispose of contents/container in compliance with local/regional/national/international regulations.
<b>Waste Treatment Methods Packaging</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
<b>Special Precautions Landfill or Incinerations</b>	No data available
<b>Other Information</b>	No data available

## Section 14: Transport Information

<b>UN Number</b>	Not dangerous goods.
<b>UN Proper Shipping Name</b>	N/A
<b>Transport Hazard Class(es)</b>	N/A
<b>Packaging Group</b>	N/A
<b>Environmental Hazards</b>	N/A

## Section 15: Regulatory Information

OSHA Specifically Regulated Substances: Not regulated. SARA: Hazard categories: Immediate Hazard - No. Delayed Hazard - Yes. Fire Hazard - No. Pressure Hazard - No. Reactivity Hazard - No. SARA 302-Not listed. SARA 311/312: Yes. Other federal regulations: SDWA: Not regulated. US state regulations: WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

## Section 16: Other Information

<b>Additional Information</b>	N/A
<b>Prepared By</b>	Scarlotte Smith
<b>Revision Date</b>	06/12/2023 14:45

### Disclaimer

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