

Section 1: Identification

Common Name/Trade Name	ESTRONE USP	
Supplier Information	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)
Product Synonym(s)	3-Hydroxy-1,3,5(10)-estratrien-17-one1,3,5(10)-Estratrien-3-ol-17-one Folliculin	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Carcinogenicity (Category 2), Reproductive toxicity (Category 1A), Effects on or via lactation	
Signal Word	Danger	
Hazard Statement(s)	H351 H360 H362	Suspected of causing cancer May damage fertility or the unborn child May cause harm to breast-fed children
Pictogram(s)		
Precautionary Statement(s)	P201 P263 P281 P308+P313	Obtain special instructions before use. Avoid contact during pregnancy/while nursing. Use personal protective equipment as required. IF exposed or concerned Get medical advice/attention.
Hazards Not Otherwise Classified	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.	
Ingredient(s) with Unknown Toxicity	No data available	

Section 3: Composition/Information on Ingredients

Chemical Name	3-Hydroxy-1,3,5(10)-estratrien-17-one1,3,5(10)-Estratrien-3-ol-17-one Folliculin
Common Name	Estrone
CAS Number	53-16-7
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures

General Advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
If Inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In Case of Skin Contact	Wash off with soap and plenty of water. Consult a physician.
In Case of Eye Contact	Flush eyes with water as precaution.
If Swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Most Important Symptoms and Effects	The most important known symptoms and effects are described in the labeling (see section 2.2) and/or section 11.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special Hazards Arising From the Substance/Mixture	Carbon oxides
Special PPE and/or Precautions for Firefighters	Wear self contained breathing apparatus for fire fighting if necessary.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Use personal equipment. Avoid dust formation. Avoid breathing vapours, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
Methods and Materials Used for Containment	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
Cleanup Procedures	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Section 7: Handling and Storage

Precautions for Safe Handling	Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Conditions for Safe Storage	Store at 25°C, excursions permitted between 15°C and 30°C. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	Contains no substances with occupational exposure limit values.
Appropriate Engineering Controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
PPE - Eye/Face Protection	Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
PPE - Skin Protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
PPE - Body Protection	Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
PPE - Respiratory Protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9: Physical and Chemical Properties

Appearance	Form: Crystalline Colour: white or almost white
Upper/Lower Flammability or Explosive Limits	No data available
Odor	No data available
Vapor Pressure	No data available
Odor Threshold	No data available
Vapor Density	No data available
pH	No data available
Relative Density	No data available
Melting Point/Freezing Point	Melting point/range: 258 - 260 °C (496 - 500 °F) - lit.
Solubility	No data available
Initial Boiling Point and Boiling Range	No data available
Flash Point	No data available
Evaporation Rate	No data available
Flammability (Solid, Gas)	No data available
Partition Coefficient	log Pow: 2,6 at 25 °C
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available

Section 10: Stability and Reactivity

Reactivity	No data available
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	No data available
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	Other decomposition products - No data available In the event of fire:see section 5

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	No data available
Acute Toxicity - Inhalation	No data available
Acute Toxicity - Dermal	No data available
Acute Toxicity - Eye	No data available
Skin Corrosion/Irritation	Skin - EPISKIN Human Skin Model Test Result: No skin irritation - 15 min (OECD Test Guideline 439)
Serious Eye Damage/Irritation	Eyes - In vitro study Result: No eye irritation - 240 min
Respiratory or Skin Sensitization	in vivo assay - Mouse Result: Does not cause skin sensitisation. (OECD Test Guideline 429) Germ cell mutagenicity
Germ Cell Mutagenicity	Laboratory experiments have shown mutagenics effects.
Carcinogenicity IARC	product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.
Carcinogenicity ACGIH	product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.
Carcinogenicity NTP	product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.
Carcinogenicity OSHA	product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.
Reproductive Toxicity	Presumed human reproductive toxicant. May cause reproductive disorders.
Specific Target Organ Toxicity - Single Exposure	No data available
Specific Target Organ Toxicity - Repeated Exposure	No data available
Aspiration Hazard	No data available Additional Information RTECS: KG8575000 Headache, Nausea, Vomiting, Diarrhoea, Alopecia., Dizziness

Section 12: Ecological Information

Toxicity	Toxicity to daphnia and other aquatic invertebrates Toxicity to algae Toxicity to bacteria static test EC50 - Daphnia magna (Water flea) - > 1,5 mg/l - 48 h (OECD Test Guideline 202) static test EC50 - Pseudokirchneriella subcapitata - > 0,57 mg/l - 72 h (OECD Test Guideline 201) . Respiration inhibition EC50 - see user defined free text - > 10 mg/l - 44 h
Persistence and Degradability	Biodegradability aerobic - Exposure time 28 d Result: 37 % - Not readily biodegradable. (OECD Test Guideline 301B)
Bio-accumulative Potential	No data available
Mobility in Soil	No data available
Other Adverse Effects	No data available

Section 13: Disposal Considerations

Waste Treatment Methods Product	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner or scrubber.
Waste Treatment Methods Packaging	Dispose of as unused product.
Special Precautions Landfill or Incinerations	No data available
Other Information	No data available

Section 14: Transport Information

UN Number	Not dangerous goods.
UN Proper Shipping Name	ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods IATA: Not dangerous goods
Transport Hazard Class(es)	ADR/RID: - IMDG: - IATA: -
Packaging Group	ADR/RID: - IMDG: - IATA: -
Environmental Hazards	ADR/RID: - IMDG: - IATA: -

Section 15: Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 07/2006. safety, health and environmental regulations/legislation specific for the substance or mixture No data available Chemical Safety Assessment For this product a chemical safety assessment was not carried out

Section 16: Other Information

Additional Information	
Prepared By	Lisa Russell
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