



1. Identification

Product identifier	17α-Hydroxyprogesterone	3
Other means of identification		
Catalog number	1A10140	
CAS number	68-96-2	
Chemical name	17-Hydroxypregn-4-ene-3,20	0-dione
Recommended use	For analytical laboratory use	•
Recommended restrictions	Not for use as a drug. Not for	or administration to humans or animals.
Manufacturer/Importer/Supplier/I Manufacturer	Distributor information	
Company name Address	U. S. Pharmacopeia 12601 Twinbrook Parkway Rockville MD 20852-1790 United States	
Telephone	Customer Service	301-881-0666
Website	www.usp.org	
E-mail	AMTech@usp.org	
Emergency phone number	CHEMTREC within US & Canada CHEMTREC outside US & Canada	1-800-424-9300 +1 703-527-3887
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Carcinogenicity	Category 2
	Reproductive toxicity	Category 2
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Warning	
Hazard statement	Suspected of causing cancer. Suspected of damaging fertility or the unborn child.	
Precautionary statement		
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.	
Response	If exposed or concerned: Get medical advice/attention.	
Storage	Store locked up.	
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	Pharmaceutical related com	pound of unknown potency.

3. Composition/information on ingredients

Substance

Chemical name	Common name and synonyms	CAS number	%
17α-Hydroxyprogesterone		68-96-2	100
Information provided in the SDS is the assigned value of a particular I	not specific to the lot provided. Refer to the labo ot.	el and USP Certificate/Product	nformation Sheet for
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptom	s develop or persist.	
Skin contact	Wash off with soap and water. Get medical at	tention if irritation develops and	persists.
Eye contact	Rinse with water. Get medical attention if irrita	tion develops and persists.	
Ingestion	Rinse mouth. Get medical attention if symptor	ns occur.	
Most important symptoms/effects, acute and delayed	Pharmaceutical related compound of unknown potency. It is not known if occupational exposure may cause physiological effects.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and trea	at symptomatically.	
General information	Remove from exposure. Remove contaminate an occupational health physician or other licer chemical exposures. In the United States, the 1-800-222-1222. If person is not breathing, giv oxygen if available. Persons developing serior receive immediate medical attention.	nsed health-care provider familia national poison control center p /e artificial respiration. If breathi	ar with workplace phone number is ng is difficult, give
5. Fire-fighting measures			
Suitable extinguishing media	Water. Foam. Dry chemical or CO2. Use fire-e materials.	extinguishing media appropriate	for surrounding
Unsuitable extinguishing media	None known.		
Specific hazards arising from the chemical	No unusual fire or explosion hazards noted.		
Special protective equipment and precautions for firefighters	Wear suitable protective equipment.		
Fire fighting equipment/instructions	Use water spray to cool unopened containers. Firefighters should use self-contained breathir		
Specific methods	Use standard firefighting procedures and cons	sider the hazards of other involv	ed materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear app inhalation of dust from the spilled material. Do unless wearing appropriate protective clothing protection, see section 8 of the SDS.	not touch damaged containers	or spilled material
Methods and materials for containment and cleaning up	Avoid the generation of dusts during clean-up suitable container for disposal. Clean surface waste disposal, see section 13 of the SDS.		
Environmental precautions	Avoid discharge into drains, water courses or	onto the ground.	
7. Handling and storage			
Precautions for safe handling	As a general rule, when handling USP materia and/or vapors associated with the material. Cl detergent or solvent after use. After removing thoroughly. Select and use containment devic risk assessment of material potency and expo	ean equipment and work surfac gloves, wash hands and other es and personal protective equi	es with suitable exposed skin
Conditions for safe storage,	Store in tight container. This material should b		instructions to ensure

Conditions for safe storage, including any incompatibilities Store in tight container. This material should be handled and stored per label instructions to ensure product integrity.

8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls	No open handling. For laboratory operations, use approved ventilation or containment system (biological safety cabinet, ventilated balance enclosure, glovebox). Control exposures to below the occupational exposure level (if available). Select and use containment devices and personal protective equipment based on a risk assessment of exposure potential. Cover all containers for solutions and slurries while being transferred.
Individual protection measures,	such as personal protective equipment
Eye/face protection	Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.
Skin protection	
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.
Other	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.
Respiratory protection	Use a powered air-purifying respirator (PAPR) with HEPA filters, disposable outerware and head cover for spill cleanup. Choose respiratory protection appropriate to the task and the level of existing engineering controls.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Pharmacological effects may be seen with occupational exposure. Handling practices in this SDS are recommendations for laboratory use of USP materials.

9. Physical and chemical properties

Physical stateSolid.FormPowder.ColorWhite.OdorNot available.Odor thresholdNot available.pHNot available.Melting point/freezing point421.52 - 425.3 °F (216.4 - 218.5 °C)
ColorWhite.OdorNot available.Odor thresholdNot available.pHNot available.Melting point/freezing point421.52 - 425.3 °F (216.4 - 218.5 °C)
OdorNot available.Odor thresholdNot available.pHNot available.Melting point/freezing point421.52 - 425.3 °F (216.4 - 218.5 °C)
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pHNot available.Melting point/freezing point421.52 - 425.3 °F (216.4 - 218.5 °C)
Melting point/freezing point 421.52 - 425.3 °F (216.4 - 218.5 °C)
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Initial boiling point and boiling Not available. range
Flash point Not available.
Evaporation rate Not available.
Flammability (solid, gas) Not available.
Upper/lower flammability or explosive limits
Explosive limit - lower (%) Not available.
Explosive limit - upper (%) Not available.
Vapor pressure Not available.
Vapor density Not available.
Relative density Not available.
Solubility(ies)
Solubility (water) Not available.
Solubility (other) Methanol: Soluble.
Partition coefficient Not available. (n-octanol/water) Not available.
Auto-ignition temperature Not available.
Decomposition temperature Not available.
Viscosity Not available.
Other information
Molecular formula C21H30O3
Molecular weight 330.46

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

11. Toxicological information

Information on likely routes of exposure

information on intery routes of e	xposule
Inhalation	Knowledge about health hazard is incomplete.
Skin contact	Knowledge about health hazard is incomplete.
Eye contact	Knowledge about health hazard is incomplete.
Ingestion	Knowledge about health hazard is incomplete.
Symptoms related to the physical, chemical and toxicological characteristics	For progestins: Breast enlargement, pain, or tenderness. Hot flashes. Mood or mental changes. Headache. Gastrointestinal disturbances. Joint pain. It is not known if this material causes the same effects.
Information on toxicological effe	ects
Acute toxicity	Not available.
Skin corrosion/irritation	Knowledge about health hazard is incomplete.
Serious eye damage/eye irritation	Knowledge about health hazard is incomplete.
Respiratory or skin sensitizatior	

Respiratory sensitizationKnowledge about health hazard is incomplete.Skin sensitizationKnowledge about sensitization hazard is incomplete.Germ cell mutagenicityKnowledge about mutagenicity is incomplete.CarcinogenicitySuspected of causing cancer. Progestins are suspected to be a human carcinogen based on evidence from animal studies.

IARC Monographs. Overall Evaluation of Carcinogenicity

17α-Hydroxyprogesterone (CAS 68-96-2) 2A Probably carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

- US. National Toxicology Program (NTP) Report on Carcinogens
 - Not listed.

Reproductive toxicity	Suspected of damaging fertility or the unborn child. For progestins: Exposure during early pregnancy may lead to chromosomal abnormalities and congenital malformations, including genital abnormalities.
Specific target organ toxicity - single exposure	Knowledge about health hazard is incomplete.

Specific target organ toxicity - Knowledge about health hazard is incomplete. **repeated exposure**

Aspiration hazard	Based on available data, the classification criteria are not met.
Further information	Pharmaceutical related compound of unknown potency. It is not known if occupational exposure may cause physiological effects.

12. Ecological information

Ecotoxicity	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.
Persistence and degradability	No data is available on the degradability of this substance.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation Other adverse effects potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Dispose in accordance with all applicable regulations. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	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).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

General information

It is the shipper's responsibility to determine the correct transport classification at the time of shipment.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not applicable.

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

categories

SARA 311/312 Hazardous Yes

chemical

Classified hazard Carcinogenicity Reproductive toxicity

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Not regulated. Safe Drinking Water Act

(SDWA)

US state regulations

California Proposition 65

WARNING: This product can expose you to 17α-Hydroxyprogesterone, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Female reproductive toxin

17α-Hydroxyprogesterone (CAS 68-96-2)	Listed: April 1, 1990		
California Proposition 65 - CRT: Listed date/Male reproductive toxin			

17α-Hydroxyprogesterone (CAS 68-96-2) Listed: April 1, 1990

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

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Issue date	09-09-2024
Version #	01
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