

Safety Data Sheet

acc. to OSHA HCS

Printing date 10/24/2023

Revision date 10/24/2023

Page 1/8

1 Identification

- · Product identifier
- · Trade name: 17α-Hydroxyprogesterone · Synonym 17-hydroxy-pregn-4-ene-3,20-dione NSC 15468 17-OHP 17-hydroxy Progesterone
- · Article number: 33154
- · CAS Number:
- 68-96-2
- · EC number:
- 200-699-4
- · Application of the substance / the mixture

This product is for research use - Not for human or veterinary diagnostic or therapeutic use.

- · Details of the supplier of the safety data sheet · Manufacturer/Supplier: Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108
- USA
- · Information department: Product safety department · Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

Toxic to Reproduction 1B H360 May damage fertility or the unborn child.



GHS09 Environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· Label elements

· GHS label elements

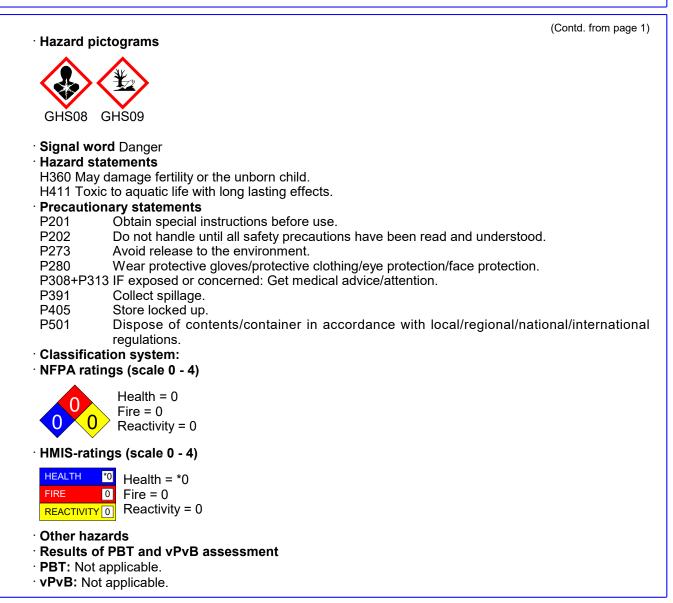
The substance is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 2)

Printing date 10/24/2023

Revision date 10/24/2023

Trade name: 17α-Hydroxyprogesterone



3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 68-96-2 17α-Hydroxyprogesterone
- Identification number(s)
- **EC number:** 200-699-4

4 First-aid measures

- Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.

(Contd. on page 3)

US

Printing date 10/24/2023

Revision date 10/24/2023

Trade name: 17α-Hydroxyprogesterone

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment. A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Dispose contaminated material as waste according to section 13.
- Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.
- Protective Action Criteria for Chemicals
- · PAC-1: Substance is not listed.
- · PAC-2: Substance is not listed.
- PAC-3: Substance is not listed.

7 Handling and storage

- · Handling:
- Precautions for safe handling
- No special precautions are necessary if used correctly.

Avoid breathing dust/fume/gas/mist/vapours/spray.

- Avoid prolonged or repeated exposure.
- Keep away from sources of ignition.
- Take precautionary measures against static discharge.re.
- · Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
 Keep container tightly closed.
 Store in accordance with information listed on the product insert.
- Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.

(Contd. on page 4)

(Contd. from page 2)

US

Printing date 10/24/2023

Revision date 10/24/2023

Trade name: 17α-Hydroxyprogesterone

(Contd. from page 3)

• Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see section 7.

· Control parameters

· Components with limit values that require monitoring at the workplace: Not required.

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

- Breathing equipment: Not required.
- · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Not required.

Information on basic physical and	chemical properties	
General Information Appearance:		
Form:	Crystalline	
Color:	Not determined.	
Odor:	Characteristic	
Structural Formula	C21H30O3	
Molecular Weight	330.5 g/mol	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Product is not flammable.	
Decomposition temperature:	Not determined.	
Ignition temperature:	Not determined.	

Printing date 10/24/2023

Revision date 10/24/2023

Trade name: 17α-Hydroxyprogesterone

	(Contd. from page 4
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density:	Not determined.
Relative density	Not determined.
· Vapor density	Not applicable.
Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
Water:	Not determined.
· Partition coefficient (n-octanol/wa	iter): Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
SOLUBILITY	DMF: 30 mg/ml; DMSO: 30 mg/ml
· Other information	No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: strong oxidizing agents
- · Hazardous decomposition products: carbon oxides

11 Toxicological information

- · RTECS Number TU5060000
- · Information on toxicological effects
- Acute toxicity:
- · LD/LC50 values that are relevant for classification:

Intraperitoneal TDLO 250 mg/kg (rat)

- Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- NTP (National Toxicology Program) Substance is not listed.

(Contd. on page 6)

US

Printing date 10/24/2023

Revision date 10/24/2023

Trade name: 17α-Hydroxyprogesterone

· OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

(Contd. from page 5)

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

- Toxic for aquatic organisms
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

• Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

· UN-Number	
· DOT	not regulated
· IMDG, IATA	UN3077
UN proper shipping name	
DOT	not regulated
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCI
	SOLID, N.O.S. (17α-Hydroxyprogesterone)
·IATA	Environmentally hazardous substance, solid, n.o.
	(17α-Hydroxyprogesterone)

Printing date 10/24/2023

Revision date 10/24/2023

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	(Contd. from page
Transport hazard class(es)	
DOT	
Class	not regulated
IMDG, IATA	
Class Label	9 Miscellaneous dangerous substances and articles 9
	9
Packing group DOT	not regulated
IMDG, IATA	not regulated III
Environmental hazards:	
Marine pollutant:	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances ar articles
Hazard identification number (Kemler cod	
EMS Number:	F-A,S-F
Stowage Category	A
Stowage Code	SW23 When transported in BK3 bulk container, se 7.6.2.12 and 7.7.3.9.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
IMDG	
Limited quantities (LQ)	5 kg
Excepted quantities (EQ)	Code: E1 Maximum pot quantity per inper packaging: 30 g
	Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
ΙΑΤΑ	· · · · · · · · · · · · · · · · · · ·
Remarks:	When sold in quantities of less than or equal to 1 m
	or 1 g, with an Excepted Quantity Code of
	E1, E2, E4, or E5, this item meets the De Minim
	Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a
	Dangerous Goods/Excepted Quantity.
UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOU
	SUBSTANCE, SOLID, N.O.S. (170
	HYDROXYPROGESTERONE), 9, III

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

(Contd. on page 8)

US

Printing date 10/24/2023

Revision date 10/24/2023

(Contd. from page 7)

Trade name: 17α-Hydroxyprogesterone

- · Sara
- Section 355 (extremely hazardous substances): Substance is not listed.
- · Section 313 (Specific toxic chemical listings): Substance is not listed.
- · TSCA (Toxic Substances Control Act): Substance is not listed.
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value) Substance is not listed.
- NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- · Date of preparation / last revision 10/24/2023
- Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Toxic to Reproduction 1B: Reproductive toxicity – Category 1B
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
* Data compared to the provinus version altered

* Data compared to the previous version altered.