

# Medroxyprogesterone SDS/MSDS (Safety Data Sheet)

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

- \* Product Name: Medroxyprogesterone
- \* Catalog Number: S3635
- \* CAS Number: 520-85-4
- \* IUPAC Name: Pregn-4-ene-3,20-dione, 17-hydroxy-6-methyl-, (6 $\alpha$ )-

Relevant identified uses and uses advised against

- \* Identified uses: For research and development use only; laboratory chemicals; manufacture of substances.
- \* Uses advised against: Not for pharmaceutical, household, or other unapproved uses.

Details of the supplier

- \* Company: Selleck Chemicals
- \* TollFree: +1 877 796-6397
- \* Tel: +1 832 582-8158
- \* Fax: +1 832 582-8590

Emergency telephone number

- \* Emergency phone #: +1 832 582-8158

## 2. HAZARDS IDENTIFICATION

### 2.1 GHS classification in accordance with 29 CFR 1910 (OSHA HCS):

Reproductive toxicity: Category 2. H361

### 2.2 GHS Label elements, including precautionary statements

Hazard Pictogram(s)



**Signal Word** Warning

**Hazard statement(s)** H361: Suspected of damaging fertility or the unborn child

**Precautionary statement(s)** None.

**Prevention** P203: Obtain, read and follow all safety instructions before use.  
P280: Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

**Response** P318: if exposed or concerned, get medical advice.

**Storage** P405: Store locked up.

**Disposal** P501: P501 Dispose of contents/ container to an approved waste disposal plant.

### **2.3 Other hazards**

None.

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

### **3.1 Substances**

Product name: Medroxyprogesterone

CAS Number: 520-85-4

PubChem CID: 10631

### **3.2 Mixtures**

Not applicable (pure substance).

## **4. FIRST-AID MEASURES**

### **4.1 Description of first aid measures**

Inhalation: Move to fresh air. Keep at rest in a position comfortable for breathing. Seek medical attention if symptoms persist.

Skin contact: Wash with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation develops.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting unless directed by medical personnel. Seek medical attention.

### **4.2 Most important symptoms and effects, both acute and delayed**

See Section 11 (Toxicological Information).

### **4.3 Indication of any immediate medical attention and special treatment needed**

Treat symptomatically. Contact a poison control center or physician for severe exposure.

## **5. FIRE-FIGHTING MEASURES**

### **5.1 Extinguishing media**

Suitable: Water spray, dry chemical, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam.

Unsuitable: None known.

### **5.2 Specific hazards arising from the substance or mixture**

Combustible. Heating may produce toxic fumes.

### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus (SCBA) and full protective clothing.

Fight fire from upwind. Cool containers with water spray until fire is extinguished.

## **6. ACCIDENTAL RELEASE MEASURES**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Wear appropriate personal protective equipment (see Section 8).

Avoid breathing dust/vapor. Ensure adequate ventilation.

Evacuate personnel to safe areas. Keep people away from and upwind of spill.

## **6.2 Environmental precautions**

Prevent product from entering drains, waterways, or soil.

Contain spill with inert absorbent material.

## **6.3 Methods and materials for containment and cleaning up**

SRP: At the time of review, regulatory criteria for small quantity disposal are subject to significant revision, however, household quantities of waste pharmaceuticals may be managed as follows: Mix with wet cat litter or coffee grounds, double bag in plastic, discard in trash.

SRP: Expired or waste pharmaceuticals shall carefully take into consideration applicable DEA, EPA, and FDA regulations. It is not appropriate to dispose by flushing the pharmaceutical down the toilet or discarding to trash. If possible return the pharmaceutical to the manufacturer for proper disposal being careful to properly label and securely package the material. Alternatively, the waste pharmaceutical shall be labeled, securely packaged and transported by a state licensed medical waste contractor to dispose by burial in a licensed hazardous or toxic waste landfill or incinerator.

# **7. HANDLING AND STORAGE**

## **7.1 Precautions for safe handling**

Sterile medroxyprogesterone acetate suspensions should be stored at 20-25 °C. The sterile injectable suspension containing medroxyprogesterone acetate in fixed combination with estradiol cypionate should be stored at 25 °C, but may be exposed to temperatures ranging from 15-30deg C. Medroxyprogesterone acetate tablets should be stored in well-closed containers at 20-25 °C.

## **7.2 Conditions for safe storage, including any incompatibilities**

Sterile medroxyprogesterone acetate suspensions should be stored at 20-25 °C. The sterile injectable suspension containing medroxyprogesterone acetate in fixed combination with estradiol cypionate should be stored at 25 °C, but may be exposed to temperatures ranging from 15-30deg C. Medroxyprogesterone acetate tablets should be stored in well-closed containers at 20-25 °C.

Store away from incompatible materials (see Section 10).

[Note: Specific storage temperature not available in public databases. Refer to supplier Certificate of Analysis (COA) for exact storage conditions.]

# **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

## **8.1 Exposure controls**

### **8.1.1 Occupational exposure limits (OEL)**

OSHA PEL: Not established.

ACGIH TLV: Not established.

NIOSH REL: Not established.

No occupational exposure limit values are established for this substance.

Use the lowest feasible exposure level (ALARA principle).

### **8.1.2 Appropriate engineering controls**

Use in a well-ventilated area. Chemical fume hood recommended for powder handling.

## 8.2 Individual protection measures

### 8.2.1 Eye/face protection

Wear safety glasses with side shields.

### 8.2.2 Skin protection

Wear protective gloves. Recommended material: Nitrile rubber.

Wear suitable protective clothing (lab coat).

### 8.2.3 Respiratory protection

Respiratory protection usually not required under normal use with adequate ventilation.

Use N95 respirator for large-scale powder handling.

### 8.2.4 Thermal hazards

Not applicable.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- a) Appearance: Solid
- b) Odor: No data available
- c) Odor threshold: No data available
- d) pH: No data available
- e) Melting point/freezing point: 214.5 °C
- f) Initial boiling point and boiling range: No data available
- g) Flash point: No data available
- h) Evaporation rate: No data available
- i) Flammability (solid, gas): No data available
- j) Upper/lower flammability or explosive limits: No data available
- k) Vapor pressure: No data available
- l) Vapor density: No data available
- m) Relative density: No data available
- n) Water solubility: Solubility at 25 °C: in acetone 1 in 50; slightly soluble in ether and methanol; sol at 25 °C in dioxane: 1 in 60 /Medoxyprogesteron acetate/
- o) Partition coefficient: n-octanol/water: Log P: No data available
- p) Auto-ignition temperature: No data available
- q) Decomposition temperature: No data available
- r) Viscosity: No data available
- s) Explosive properties: No data available
- t) Oxidizing properties: No data available

### 9.2 Other information

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No specific reactivity hazards identified under normal handling conditions.

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reactions under normal conditions.

**10.4 Conditions to avoid**

Avoid heat, sparks, open flames, direct sunlight, and moisture.

**10.5 Incompatible materials**

Strong oxidizing agents, strong acids, strong bases.

**10.6 Hazardous decomposition products**

No data available.

See also Section 5 (Fire-fighting measures) for combustion products.

**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute toxicity:**

No acute toxicity data available.

**Skin corrosion/irritation:**

No data available.

**Serious eye damage/eye irritation:**

No data available.

**Respiratory or skin sensitization:**

No data available.

**Germ cell mutagenicity:**

No data available.

**Carcinogenicity:**

No data available.

**Reproductive toxicity:**

Suspected of damaging fertility or the unborn child (H361).

**Specific target organ toxicity (single exposure):**

No data available.

**Specific target organ toxicity (repeated exposure):**

No data available.

**Aspiration hazard:**

No data available.

**11.2 Additional information**

No additional toxicological information available.

**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

Medroxyprogesterone's production and use as a progestogen, injectable contraceptive, and hormonal antineoplastic in humans and also as an estrus regulator in veterinary medicine may result in its release to the environment through various waste streams. If released to air, an estimated vapor pressure of  $1.9 \times 10^{-10}$  mm Hg at 25 °C indicates medroxyprogesterone will exist solely in the particulate phase in the atmosphere. Particulate-phase medroxyprogesterone will be removed from the atmosphere by wet or dry deposition. Medroxyprogesterone contains chromophores that absorb at wavelengths  $>290$  nm, and therefore may be susceptible to direct photolysis by sunlight. If released to soil, medroxyprogesterone is expected to have low mobility based upon an estimated Koc of 1,200. Volatilization from moist soil surfaces is not expected to be an important fate process based upon an estimated Henry's Law constant of  $1.3 \times 10^{-8}$  atm-cu m/mole. Medroxyprogesterone is not expected to volatilize from dry soil surfaces based upon its vapor pressure. Biodegradation data were not available. If released into water, medroxyprogesterone is expected to adsorb to suspended solids and sediment based upon the estimated Koc. Volatilization from water surfaces is not expected to be an important fate process based upon this compound's estimated Henry's Law constant. An estimated BCF of 94 suggests the potential for bioconcentration in aquatic organisms is moderate. Hydrolysis is not expected to be an important

## **12.2 Persistence and degradability**

No data available.

## **12.3 Bioaccumulative potential**

No data available.

## **12.4 Mobility in soil**

No data available.

## **12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available.

## **12.6 Other adverse effects**

No other adverse ecological effects identified.

# **13. DISPOSAL CONSIDERATIONS**

## **13.1 Waste treatment methods**

Waste Treatment Methods: Waste material must be disposed of in accordance with national and local regulations. Leave chemicals in original containers and do not mix with other waste. Handle uncleaned containers in the same manner as the product itself.

# **14. TRANSPORT INFORMATION**

## **14.1 UN number**

Not regulated as dangerous goods (research quantities typically exempt).

## **14.2 UN proper shipping name**

Not subject to transport regulations (small quantities for research use).

## **14.3 Transport hazard class(es)**

Not classified as dangerous goods for transport (research quantities).

## **14.4 Packing group**

Not applicable (not regulated as dangerous goods in typical research quantities).

#### **14.5 Environmental hazards**

Marine pollutant: No (not classified as environmentally hazardous per GHS).

#### **14.6 Special precautions for user**

Transport in original packaging. Ensure containers are tightly sealed.

For bulk or commercial quantities, consult applicable transport regulations (DOT, IATA, IMDG).

#### **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable.

### **15. REGULATORY INFORMATION**

#### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

US EPA / TSCA: Not available in public databases.

EU ECHA / REACH: Not available in public databases.

##### **SARA 302 Components:**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

##### **SARA 313 Components:**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

##### **SARA 311/312 Hazards:**

Chronic (long-term) health hazard

##### **Massachusetts Right To Know Components:**

This material contains components subject to the Massachusetts Right to Know Act. See Section 2 for hazard classification.

##### **Pennsylvania Right To Know Components:**

This material contains components subject to the Pennsylvania Right to Know Act. See Section 2 for hazard classification.

##### **New Jersey Right To Know Components:**

This material contains components subject to the New Jersey Right to Know Act. See Section 2 for hazard classification.

##### **California Prop. 65 Components:**

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

##### **Other regulatory listings:**

- FDA Requirements: The Approved Drug Products with Therapeutic Equivalence Evaluations identifies currently marketed prescription drug products, including medroxyprogesterone acetate, approved on the basis of safety and effectiveness by FDA under sections 505 of the Federal Food, Drug, and Cosmetic Act. /Medroxyprog

#### **15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for this substance.

For research-use-only compounds, no CSA is required under REACH Annex I.

## **16. OTHER INFORMATION**

Revision Date: 2026/09/09

Further Information: The information provided is believed to be correct but is not exhaustive and should be used only as a guideline based on current knowledge. It does not represent a guarantee of the properties of the product.

Selleck Chemicals Corporation and its Affiliates shall not be held liable for any damage resulting from handling or contact with the product.