



# PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Issue date: 1/29/2016 Revision date: 2/6/2024 Supersedes: 1/29/2016 Version: 2.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)  
Product code : DLM-7953-S

#### 1.2. Recommended use and restrictions on use

No additional information available

#### 1.3. Supplier

Cambridge Isotope Laboratories, Inc.  
50 Frontage Rd  
01810  
ANDOVER, MA, 01810  
USA  
T 1-800-322-1174  
[cilsales@isotope.com](mailto:cilsales@isotope.com) - [www.isotope.com](http://www.isotope.com)

#### 1.4. Emergency telephone number

Emergency number : 1-703-741-5970  
Chemtrec 1-800-424-9300 24 hours

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Flammable liquids Category 2	H225	Highly flammable liquid and vapor
Acute toxicity (oral) Category 3	H301	Toxic if swallowed
Serious eye damage/eye irritation Category 2A	H319	Causes serious eye irritation
Carcinogenicity Category 2	H351	Suspected of causing cancer (Dermal, Inhalation, oral)
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335	May cause respiratory irritation
Hazardous to the aquatic environment – Chronic Hazard Category 4	H413	May cause long lasting harmful effects to aquatic life

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger  
Hazard statements (GHS US) : H225 - Highly flammable liquid and vapor  
H301 - Toxic if swallowed  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation

# PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Precautionary statements (GHS US)

- H351 - Suspected of causing cancer (Dermal, Inhalation, oral)  
H413 - May cause long lasting harmful effects to aquatic life
- : P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. heat, hot surfaces, open flames, sparks  
P233 - Keep container tightly closed.  
P240 - Ground/Bond container and receiving equipment.  
P241 - Use explosion-proof lighting, electrical, ventilating equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P261 - Avoid breathing dust, fume, gas, mist, spray, vapors.  
P264 - Wash Both hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, face protection, protective clothing, protective gloves.  
P301+P310 - If swallowed: Immediately call a poison center or doctor.  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
P312 - Call a poison center or doctor if you feel unwell.  
P321 - Specific treatment (see Hazard pictograms (CLP) on this label).  
P330 - Rinse mouth.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P370+P378 - In case of fire: Use Alcohol resistant foam, Carbon dioxide, Dry chemical, Water spray to extinguish.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container to Comply with applicable regulations.

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
1,4-DIOXANE (P-DIOXANE) UNLABELED	CAS-No.: 123-91-1	99.9903	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 Carc. 2, H351 STOT SE 3, H335

# PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.
First-aid measures after eye contact	: Flush eye with water for 15 minutes. Get medical attention.
First-aid measures after ingestion	: Rinse mouth. Obtain emergency medical attention. Immediately call a poison center or doctor/physician.

#### 4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms	: Toxic if swallowed.
Symptoms/effects	: Suspected of causing cancer (in contact with skin, if inhaled, if swallowed).
Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: May be harmful if absorbed through skin. May cause skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

#### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
------------------------------	---

#### 5.2. Specific hazards arising from the chemical

Fire hazard	: Highly flammable liquid and vapor.
Explosion hazard	: May form flammable/explosive vapor-air mixture.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Wear a self contained breathing apparatus.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

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

General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.
------------------	---

##### 6.1.1. For non-emergency personnel

Emergency procedures	: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
----------------------	--

# PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 6.3. Methods and material for containment and cleaning up

- For containment : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.
- Methods for cleaning up : For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.
- Precautions for safe handling : No open flames. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Avoid breathing dust, mist or spray.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash Both hands thoroughly after handling.

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

- Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical equipment.
- Storage conditions : Store at room temperature away from light and moisture.
- Incompatible materials : Heat sources.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	20 ppm Liver damage. Confirmed animal carcinogen with unknown relevance to humans. Danger of cutaneous absorption.
1,4-DIOXANE (P-DIOXANE) UNLABELED (123-91-1)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA [ppm]	20 ppm Liver damage. Confirmed animal carcinogen with unknown relevance to humans. Danger of cutaneous absorption.
USA - OSHA - Occupational Exposure Limits	
OSHA PEL TWA [1]	90 mg/m <sup>3</sup> Skin notation.
OSHA PEL TWA [2]	25 ppm Skin notation.
Remark (OSHA)	TWA 100 ppm; 360 mg/m <sup>3</sup> Skin Designation. The value in mg/m <sup>3</sup> is approximate.

# PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 1,4-DIOXANE (P-DIOXANE) UNLABELED (123-91-1)

#### USA - NIOSH - Occupational Exposure Limits

NIOSH REL C	3.6 mg/m <sup>3</sup> Potential Occupational Carcinogen. 30 minute ceiling value.
NIOSH REL C [ppm]	1 ppm Potential Occupational Carcinogen. 30 minute ceiling value.

### 8.2. Appropriate engineering controls

No additional information available

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Safety glasses. Gloves. Protective clothing. Respiratory protection of the dependent type. Self-contained breathing apparatus.

#### Hand protection:

Wear suitable protective clothing and gloves

#### Eye protection:

Wear safety glasses with side shields (or goggles) and a face shield.

#### Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Respiratory protection:

When appropriate, use NIOSH/CEN approved respirator.

#### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Color	: Colorless
Odor	: There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour: No data available. No data available
Odor threshold	: No data available
pH	: 6 – 8 at 500 g/l at 20 °C (68 °F)
Melting point	: 10 – 12 °C (50 -54 °F) - lit.
Freezing point	: No data available
Boiling point	: 100 – 102 °C (212 - 216 °F) - lit.
Flash point	: 12 °C (54 °F) - closed cup
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapor.
Vapor pressure	: 36 hPa (27 mmHg) at 20 °C (68 °F), 53 hPa (40 mmHg) at 25.20 °C (77.36 °F)
Relative vapor density at 20°C	: 3.04 - (Air = 1.0)

# PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Relative density	: No data available
Density	: 1.034 g/ml at 25 °C (77 °F)
Molecular mass	: 88.11 g/mol
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: -0.27
Auto-ignition temperature	: 375 °C (707 °F)
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: 2 – 22 % (V)
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Vapors may form explosive mixture with air.

### 10.2. Chemical stability

See storage and expiration date on CoA.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Open flame. Direct sunlight.

### 10.5. Incompatible materials

Oxygen. Oxidizing agent. Halogens. Reducing agents. Percholates. Trimethylaluminum.

### 10.6. Hazardous decomposition products

May release flammable gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Toxic if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)	
LD50 oral rat	4200 mg/kg
LD50 dermal rabbit	7858 mg/kg
LC50 Inhalation - Rat	46000 mg/m <sup>3</sup> 2 h - Sense Organs and Special Senses (Nose, Eye, Ear and Taste): Eye: Other.
ATE US (oral)	100 mg/kg body weight

# PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)	
ATE US (dermal)	7858 mg/kg body weight
ATE US (vapors)	46 mg/l/4h
ATE US (dust, mist)	46 mg/l/4h

1,4-DIOXANE (P-DIOXANE) UNLABELED (123-91-1)	
LD50 oral rat	4200 mg/kg
LD50 dermal rabbit	7858 mg/kg
LC50 Inhalation - Rat	46000 mg/m <sup>3</sup> 2 h - Sense Organs and Special Senses (Nose, Eye, Ear and Taste): Eye: Other.
ATE US (oral)	4200 mg/kg body weight
ATE US (dermal)	7858 mg/kg body weight
ATE US (vapors)	46 mg/l/4h
ATE US (dust, mist)	46 mg/l/4h

Skin corrosion/irritation : Not classified  
pH: 6 – 8 at 500 g/l at 20 °C (68 °F)

1,4-DIOXANE (P-DIOXANE) UNLABELED (123-91-1)	
pH	6 – 8 at 500 g/l at 20 °C (68 °F)

Serious eye damage/irritation : Causes serious eye irritation.  
pH: 6 – 8 at 500 g/l at 20 °C (68 °F)

1,4-DIOXANE (P-DIOXANE) UNLABELED (123-91-1)	
pH	6 – 8 at 500 g/l at 20 °C (68 °F)

Respiratory or skin sensitization : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Suspected of causing cancer (Dermal, Inhalation, oral).

PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)	
IARC group	2B - Possibly carcinogenic to humans

1,4-DIOXANE (P-DIOXANE) UNLABELED (123-91-1)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen

Reproductive toxicity : Not classified  
STOT-single exposure : May cause respiratory irritation.

1,4-DIOXANE (P-DIOXANE) UNLABELED (123-91-1)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified  
Viscosity, kinematic : No data available  
Potential Adverse human health effects and symptoms : Toxic if swallowed.  
Symptoms/effects : Suspected of causing cancer (in contact with skin, if inhaled, if swallowed).  
Symptoms/effects after inhalation : May cause respiratory irritation.  
Symptoms/effects after skin contact : May be harmful if absorbed through skin. May cause skin irritation.  
Symptoms/effects after eye contact : Causes serious eye irritation.

# PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Symptoms/effects after ingestion : Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - water : May cause long lasting harmful effects to aquatic life.

PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)	
LC50 - Fish [1]	985 mg/l Pimephales promelas (fathead minnow) - 96 h
EC50 - Crustacea [1]	8450 mg/l Daphnia magna (Water flea) - 24 h
ErC50 algae	> 500 mg/l Desmodesmus subspicatus (green algae) - 72 h

1,4-DIOXANE (P-DIOXANE) UNLABELED (123-91-1)	
LC50 - Fish [1]	985 mg/l Pimephales promelas (fathead minnow) - 96 h
EC50 - Crustacea [1]	8450 mg/l Daphnia magna (Water flea) - 24 h
ErC50 algae	> 500 mg/l Desmodesmus subspicatus (green algae) - 72 h

### 12.2. Persistence and degradability

PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)	
Persistence and degradability	May cause long-term adverse effects in the environment.

1,4-DIOXANE (P-DIOXANE) UNLABELED (123-91-1)	
Persistence and degradability	Biodegradability: Result: < 5 % - Not readily biodegradable.

### 12.3. Bioaccumulative potential

PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)	
Partition coefficient n-octanol/water (Log Pow)	-0.27
Bioaccumulative potential	Does not bioaccumulate.

1,4-DIOXANE (P-DIOXANE) UNLABELED (123-91-1)	
Partition coefficient n-octanol/water (Log Pow)	-0.27
Bioaccumulative potential	Does not bioaccumulate.

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other adverse effects : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Disposal must be done according to official regulations.



# PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.
Product/Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Ecology - waste materials	: Dispose of as unused product.

### SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

#### 14.1. UN number

DOT NA No	: UN1165
UN-No. (TDG)	: Not applicable
UN-No. (IMDG)	: 1165
UN-No. (IATA)	: 1165

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Dioxane
Proper Shipping Name (TDG)	: Not applicable
Proper Shipping Name (IMDG)	: DIOXANE
Proper Shipping Name (IATA)	: Dioxane

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

##### DOT

Transport hazard class(es) (DOT)	: 3
Hazard labels (DOT)	: 3



##### TDG

Transport hazard class(es) (TDG)	: Not applicable
----------------------------------	------------------

##### IMDG

Transport hazard class(es) (IMDG)	: 3
Hazard labels (IMDG)	: 3



##### IATA

Transport hazard class(es) (IATA)	: 3
Hazard labels (IATA)	: 3

# PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations



### 14.4. Packing group

Packing group (DOT)	: II
Packing group (TDG)	: Not applicable
Packing group (IMDG)	: II
Packing group (IATA)	: II

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Special precautions for user

#### DOT

UN-No.(DOT)	: UN1165
DOT Special Provisions (49 CFR 172.102)	: IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

#### TDG

No data available

#### IMDG

Limited quantities (IMDG)	: 1 L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage)	: S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS
Stowage category (IMDG)	: B
Flash point (IMDG)	: 12°C c.c.
Properties and observations (IMDG)	: Colourless liquid with an ether-like odour. Flashpoint: 12°C c.c. Explosive limits: 2% to 22% Miscible with water. Harmful by inhalation.
MFAG-No	: 127

# PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### IATA

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
ERG code (IATA)	: 3L

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

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)

Subject to reporting requirements of United States SARA Section 313  
Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	100 lb
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
1,4-DIOXANE (P-DIOXANE) UNLABELED	123-91-1	Present	Active	

#### 1,4-DIOXANE (P-DIOXANE) UNLABELED (123-91-1)

Subject to reporting requirements of United States SARA Section 313  
Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	100 lb
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard

### 15.2. International regulations

#### CANADA

#### PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)

Listed on the Canadian DSL (Domestic Substances List)

#### 1,4-DIOXANE (P-DIOXANE) UNLABELED (123-91-1)

Listed on the Canadian DSL (Domestic Substances List)

### EU-Regulations

No additional information available

# PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### National regulations

PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program) Listed on INSQ (Mexican National Inventory of Chemical Substances)

1,4-DIOXANE (P-DIOXANE) UNLABELED (123-91-1)
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program) Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 15.3. US State regulations

PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)	
U.S. - California - Proposition 65 - Carcinogens List	Yes
U.S. - California - Proposition 65 - Developmental Toxicity	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No
No significant risk level (NSRL)	30 µg/day
State or local regulations	U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

1,4-DIOXANE (P-DIOXANE) UNLABELED (123-91-1)					
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No	30 µg/day	

Component	State or local regulations
1,4-DIOXANE (P-DIOXANE) UNLABELED(123-91-1)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

### SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date

: 02/06/2024

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

# PROGESTERONE 100 UG/ML IN P-DIOXANE (2,2,4,6,6,17A,21,21,21-D9, 98%)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases	
H225	Highly flammable liquid and vapor
H301	Toxic if swallowed
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H413	May cause long lasting harmful effects to aquatic life

NFPA health hazard

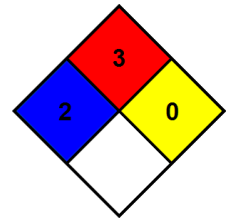
: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard

: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

Health

: 2 Moderate Hazard - Temporary or minor injury may occur

Flammability

: 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB IC)

Physical

: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.