SAFETY DATA SHEET

Progesterone Formulation (Veterinary)

SECTION 1. IDENTIFICATION

Product name: Progesterone Formulation (Veterinary)

Manufacturer or supplier’s details
Company name of supplier: Merck & Co., Inc
Address: 2000 Galloping Hill Road
Kenilworth - New Jersey - U.S.A. 07033
Telephone: 908-740-4000
Emergency telephone: 1-908-423-6000
E-mail address: EHSDATASTEWARD@merck.com

Recommended use of the chemical and restrictions on use
Recommended use: Veterinary product

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)
Carcinogenicity (Inhalation): Category 1A
Carcinogenicity: Category 2
Reproductive toxicity: Category 1A
Effects on or via lactation
Specific target organ toxicity - repeated exposure (Inhalation): Category 1 (Lungs)

GHS label elements
Hazard pictograms:

Signal Word: Danger

Hazard Statements:
H350 May cause cancer by inhalation.
H351 Suspected of causing cancer.
H360 May damage fertility or the unborn child.
H362 May cause harm to breast-fed children.
H372 Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

Precautionary Statements:
Prevention:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust, fume, gas, mist, vapors or spray.
P263 Avoid contact during pregnancy and while nursing.
P264 Wash skin thoroughly after handling.
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Progesterone Formulation (Veterinary)

P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves, protective clothing, eye protection and face protection.

Response:
P308 + P313 IF exposed or concerned: Get medical attention.

Storage:
P405 Store locked up.

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

Other hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance / Mixture</th>
<th>Mixture</th>
</tr>
</thead>
</table>

### Components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>&gt;= 30 - &lt; 50</td>
</tr>
<tr>
<td>Silicon dioxide</td>
<td>7631-86-9</td>
<td>&gt;= 20 - &lt; 30</td>
</tr>
<tr>
<td>Progesterone</td>
<td>57-83-0</td>
<td>&gt;= 5 - &lt; 10</td>
</tr>
<tr>
<td>Bis(alpha,alpha-dimethylbenzyl) per-</td>
<td>80-43-3</td>
<td>&gt;= 0.1 - &lt; 1</td>
</tr>
<tr>
<td>oxide</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

**General advice**
In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.

**If inhaled**
If inhaled, remove to fresh air.
Get medical attention.

**In case of skin contact**
In case of contact, immediately flush skin with soap and plenty of water.
Remove contaminated clothing and shoes.
Get medical attention.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.

**In case of eye contact**
Flush eyes with water as a precaution.
Get medical attention if irritation develops and persists.

**If swallowed**
If swallowed, DO NOT induce vomiting.
Get medical attention.
Rinse mouth thoroughly with water.

**Most important symptoms and effects, both acute and delayed**
May cause cancer by inhalation.
Suspected of causing cancer.
May damage fertility or the unborn child.
May cause harm to breast-fed children.
CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE IF INHALED.

PROTECTION OF FIRST-AIDERS: FIRST AID RESPONDERS SHOULD PAY ATTENTION TO SELF-PROTECTION, AND USE THE RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT WHEN THE POTENTIAL FOR EXPOSURE EXISTS (SEE SECTION 8).

NOTES TO PHYSICIAN: TREAT SYMPTOMATICALLY AND SUPPORTIVELY.

SECTION 5. FIRE-FIGHTING MEASURES

- SUITABLE EXTINGUISHING MEDIA: WATER SPRAY, ALCOHOL-RESISTANT FOAM, CARBON DIOXIDE (CO2), DRY CHEMICAL.
- UNSUITABLE EXTINGUISHING MEDIA: NONE KNOWN.
- SPECIFIC HAZARDS DURING FIRE FIGHTING: EXPOSURE TO COMBUSTION PRODUCTS MAY BE A HAZARD TO HEALTH.
- HAZARDOUS COMBUSTION PRODUCTS: CARBON OXIDES, SILICON OXIDES.
- SPECIFIC EXTINGUISHING METHODS: USE EXTINGUISHING MEASURES THAT ARE APPROPRIATE TO LOCAL CIRCUMSTANCES AND THE SURROUNDING ENVIRONMENT.
  - USE WATER SPRAY TO COOL UNOPENED CONTAINERS.
  - REMOVE UNDAMAGED CONTAINERS FROM FIRE AREA IF IT IS SAFE TO DO SO.
  - EVACUATE AREA.
- SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: IN THE EVENT OF FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS.
  - USE PERSONAL PROTECTIVE EQUIPMENT.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: USE PERSONAL PROTECTIVE EQUIPMENT.
  - FOLLOW SAFE HANDLING ADVICE (SEE SECTION 7) AND PERSONAL PROTECTIVE EQUIPMENT RECOMMENDATIONS (SEE SECTION 8).
- ENVIRONMENTAL PRECAUTIONS: AVOID RELEASE TO THE ENVIRONMENT.
  - PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO.
  - RETAIN AND DISPOSE OF CONTAMINATED WASH WATER.
  - LOCAL AUTHORITIES SHOULD BE ADVISED IF SIGNIFICANT SPILLAGES CANNOT BE CONTAINED.
- METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: SWEEP UP OR VACUUM UP SPILLAGE AND COLLECT IN SUITABLE CONTAINER FOR DISPOSAL.
  - LOCAL OR NATIONAL REGULATIONS MAY APPLY TO RELEASES AND DISPOSAL OF THIS MATERIAL, AS WELL AS THOSE MATERIALS AND ITEMS EMPLOYED IN THE CLEANUP OF RELEASES. YOU WILL NEED TO DETERMINE WHICH REGULATIONS ARE APPLICABLE.
  - SECTIONS 13 AND 15 OF THIS SDS PROVIDE INFORMATION REGARDING CERTAIN LOCAL OR NATIONAL REQUIREMENTS.

SECTION 7. HANDLING AND STORAGE

- TECHNICAL MEASURES: SEE ENGINEERING MEASURES UNDER EXPOSURE CONTROLS/PERSONAL PROTECTION SECTION.
- LOCAL/TOTAL VENTILATION: IF SUFFICIENT VENTILATION IS UNAVAILABLE, USE WITH LOCAL EXHAUST.
ventilation.

Advice on safe handling: Avoid contact during pregnancy and while nursing.
Do not get on skin or clothing.
Do not breathe dust, fume, gas, mist, vapors or spray.
Do not swallow.
Avoid contact with eyes.
Wash skin thoroughly after handling.
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment.
Keep container tightly closed.
Do not eat, drink or smoke when using this product.
Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage: Keep in properly labeled containers.
Store locked up.
Keep tightly closed.
Store in accordance with the particular national regulations.

Materials to avoid: Do not store with the following product types:
Strong oxidizing agents
Organic peroxides
Explosives
Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>TWA (Respirable dust)</td>
<td>0.05 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (respirable)</td>
<td>10 mg/m³ / %SiO2+2</td>
<td>OSHA Z-3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (respirable)</td>
<td>250 mppcf / %SiO2+5</td>
<td>OSHA Z-3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Respirable particulate matter)</td>
<td>0.025 mg/m³ (Silica)</td>
<td>ACGIH</td>
</tr>
<tr>
<td>Silicon dioxide</td>
<td>7631-86-9</td>
<td>TWA (Dust)</td>
<td>20 Million particles per cubic foot (Silica)</td>
<td>OSHA Z-3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Dust)</td>
<td>80 mg/m³ / %SiO2 (Silica)</td>
<td>OSHA Z-3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>6 mg/m³ (Silica)</td>
<td>NIOSH REL</td>
</tr>
</tbody>
</table>
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Progesterone Formulation (Veterinary)

Version 4.0  Revision Date: 08/27/2021  SDS Number: 2183757-00009  Date of last issue: 04/09/2021
Date of first issue: 11/15/2017

Progesterone 57-83-0  TWA 6 μg/m3 (OEB 4) Internal
Further information: DSEN
Wipe limit 60 μg/100 cm2 Internal

Engineering measures: Minimize workplace exposure concentrations. If sufficient ventilation is unavailable, use with local exhaust ventilation.

Personal protective equipment
Respiratory protection: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection
Material: Chemical-resistant gloves
Remarks: Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Eye protection: Wear the following personal protective equipment:
Safety glasses

Skin and body protection: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Hygiene measures: If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: solid
Color: light green
Odor: No data available
Odor Threshold: No data available
## pH
No data available

## Melting point/freezing point
No data available

## Initial boiling point and boiling range
No data available

## Flash point
Not applicable

## Evaporation rate
Not applicable

## Flammability (solid, gas)
Not classified as a flammability hazard

## Flammability (liquids)
No data available

## Upper explosion limit / Upper flammability limit
No data available

## Lower explosion limit / Lower flammability limit
No data available

## Vapor pressure
Not applicable

## Relative vapor density
Not applicable

## Relative density
No data available

### Density
1.1 g/cm³

### Solubility(ies)
- Water solubility: soluble

### Partition coefficient: n-octanol/water
Not applicable

### Autoignition temperature
No data available

### Decomposition temperature
No data available

### Viscosity
- Viscosity, kinematic: Not applicable

### Explosive properties
Not explosive

### Oxidizing properties
The substance or mixture is not classified as oxidizing.

### Molecular weight
Not applicable

### Particle size
Not applicable

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity
Not classified as a reactivity hazard.

### Chemical stability
Stable under normal conditions.
### Possibility of hazardous reactions
- Can react with strong oxidizing agents.

### Conditions to avoid
- None known.

### Incompatible materials
- Oxidizing agents

### Hazardous decomposition products
- No hazardous decomposition products are known.

## SECTION 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Skin contact**

**Ingestion**

**Eye contact**

**Acute toxicity**
Not classified based on available information.

**Components:**

**Quartz:**
- Acute oral toxicity: LD50 (Rat): > 22,500 mg/kg

**Silicon dioxide:**
- Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg
  - Method: OECD Test Guideline 401
- Acute inhalation toxicity: LC50 (Rat): > 2.08 mg/l
  - Exposure time: 4 h
  - Test atmosphere: dust/mist
  - Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity: LD50 (Rabbit): > 5,000 mg/kg

**Progesterone:**
- Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg

**Bis(alpha,alpha-dimethylbenzyl) peroxide:**
- Acute oral toxicity: LD50 (Rat): > 2,000 mg/kg
  - Method: OECD Test Guideline 401
  - Assessment: The substance or mixture has no acute oral toxicity
- Acute inhalation toxicity: LC50 (Rat): > 0.224 mg/l
  - Exposure time: 4 h
  - Test atmosphere: dust/mist
- Acute dermal toxicity: LD50 (Rat): > 2,000 mg/kg
  - Method: OECD Test Guideline 402
  - Assessment: The substance or mixture has no acute dermal toxicity
Skin corrosion/irritation
Not classified based on available information.

Components:

Quartz:
Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation
Remarks: Based on data from similar materials

Silicon dioxide:
Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

Bis(alpha,alpha-dimethylbenzyl) peroxide:
Result: Skin irritation

Serious eye damage/eye irritation
Not classified based on available information.

Components:

Quartz:
Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
Remarks: Based on data from similar materials

Silicon dioxide:
Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

Bis(alpha,alpha-dimethylbenzyl) peroxide:
Species: Rabbit
Result: Irritation to eyes, reversing within 7 days
Method: OECD Test Guideline 405

Respiratory or skin sensitization
Skin sensitization
Not classified based on available information.
Respiratory sensitization
Not classified based on available information.

Components:

Bis(alpha,alpha-dimethylbenzyl) peroxide:
Test Type: Local lymph node assay (LLNA)
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Routes of exposure: Skin contact
Species: Mouse
Method: OECD Test Guideline 429
Result: negative

Germ cell mutagenicity
Not classified based on available information.

Components:

 Silicon dioxide:
Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative
Genotoxicity in vivo: Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)
Species: Rat
Application Route: Ingestion
Result: negative

 Progesterone:
Genotoxicity in vitro: Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)
Method: OECD Test Guideline 482
Result: negative
Genotoxicity in vivo: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Monkey
Application Route: Subcutaneous
Result: negative

 Bis(alpha,alpha-dimethylbenzyl) peroxide:
Genotoxicity in vitro: Test Type: Chromosome aberration test in vitro
Result: negative
Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Carcinogenicity
May cause cancer by inhalation.
Suspected of causing cancer.

Components:

 Quartz:
Species: Humans
Application Route: Inhalation (dust/mist/fume)
Result: positive
Carcinogenicity - Assessment: Positive evidence from human epidemiological studies (inhala-
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Silicon dioxide:
Species: Rat
Application Route: Ingestion
Exposure time: 103 weeks
Result: negative

Progesterone:
Species: Mouse
Application Route: Subcutaneous
Exposure time: 19 weeks
Result: positive

Carcinogenicity - Assessment:
- Limited evidence of carcinogenicity in animal studies
- IARC Group 1: Carcinogenic to humans
  Quartz 14808-60-7 (Silica dust, crystalline)
- OSHA specifically regulated carcinogen
  Quartz 14808-60-7 (crystalline silica)
- NTP Reasonably anticipated to be a human carcinogen
  Progesterone 57-83-0
  Quartz 14808-60-7 (Silica, Crystalline (Respirable Size))

Reproductive toxicity
- May damage fertility or the unborn child.
- May cause harm to breast-fed children.

Components:
Silicon dioxide:
Effects on fetal development: Test Type: Embryo-fetal development
Species: Rat
Application Route: Ingestion
Result: negative

Progesterone:
Effects on fertility: Test Type: Fertility
Species: Rat
Application Route: Subcutaneous
Result: positive

Effects on fetal development: Test Type: Embryo-fetal development
Species: Rat
Application Route: Skin contact
Result: positive
Reproductive toxicity - Assessment: Positive evidence of adverse effects on sexual function, fertility and/or development from human epidemiological studies. Studies indicating a hazard to babies during the lactation period.

**Bis(alpha,alpha-dimethylbenzyl) peroxide:**

**Effects on fetal development**

- **Test Type:** Embryo-fetal development
- **Species:** Rat
- **Application Route:** Ingestion
- **Method:** OECD Test Guideline 414
- **Result:** positive

Reproductive toxicity - Assessment: Clear evidence of adverse effects on development, based on animal experiments.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Causes damage to organs (Lungs) through prolonged or repeated exposure if inhaled.

**Components:**

**Quartz:**

- **Routes of exposure:** Inhalation (dust/mist/fume)
- **Target Organs:** Lungs
- **Assessment:** Shown to produce significant health effects in animals at concentrations of 0.02 mg/l/6h/d or less.

**Bis(alpha,alpha-dimethylbenzyl) peroxide:**

- **Routes of exposure:** Ingestion
- **Assessment:** No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

**Repeated dose toxicity**

**Components:**

**Quartz:**

- **Species:** Humans
- **LOAEL:** 0.053 mg/m³
- **Application Route:** Inhalation

**Silicon dioxide:**

- **Species:** Rat
- **NOAEL:** 1.3 mg/m³
- **Application Route:** Ingestion (dust/mist/fume)
- **Exposure time:** 13 Weeks

**Bis(alpha,alpha-dimethylbenzyl) peroxide:**

- **Species:** Rat
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### Progesterone Formulation (Veterinary)

<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date:</th>
<th>SDS Number:</th>
<th>Date of last issue:</th>
<th>Date of first issue:</th>
</tr>
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<tbody>
<tr>
<td>4.0</td>
<td>08/27/2021</td>
<td>2183757-00009</td>
<td>04/09/2021</td>
<td>11/15/2017</td>
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</table>

### NOAEL

<table>
<thead>
<tr>
<th>Application Route</th>
<th>Exposure time</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOAEL</td>
<td>200 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

### Aspiration toxicity

Not classified based on available information.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

#### Quartz:

<table>
<thead>
<tr>
<th>Toxicity to fish</th>
<th>LC50 (Danio rerio (zebra fish)): 508 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure time</td>
<td>96 h</td>
</tr>
<tr>
<td>Remarks</td>
<td>Based on data from similar materials</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
<th>EC50 (Daphnia magna (Water flea)): 731 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure time</td>
<td>48 h</td>
</tr>
<tr>
<td>Remarks</td>
<td>Based on data from similar materials</td>
</tr>
</tbody>
</table>

#### Silicon dioxide:

<table>
<thead>
<tr>
<th>Toxicity to fish</th>
<th>LC50 (Danio rerio (zebra fish)): &gt; 10,000 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure time</td>
<td>96 h</td>
</tr>
<tr>
<td>Method</td>
<td>OECD Test Guideline 203</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Toxicity to daphnia and other aquatic invertebrates</th>
<th>EC50 (Daphnia magna (Water flea)): &gt; 1,000 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure time</td>
<td>24 h</td>
</tr>
<tr>
<td>Method</td>
<td>OECD Test Guideline 202</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Toxicity to algae/aquatic plants</th>
<th>EC50 (Desmodesmus subspicatus (green algae)): &gt; 10,000 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure time</td>
<td>72 h</td>
</tr>
<tr>
<td>Method</td>
<td>OECD Test Guideline 201</td>
</tr>
<tr>
<td>Remarks</td>
<td>Based on data from similar materials</td>
</tr>
</tbody>
</table>

| NOEC (Desmodesmus subspicatus (green algae)): 10,000 mg/l |
| Exposure time                                      | 72 h                                          |
| Method                                             | OECD Test Guideline 201 |
| Remarks                                            | Based on data from similar materials |

#### Progesterone:

#### Ecotoxicology Assessment

<table>
<thead>
<tr>
<th>Acute aquatic toxicity</th>
<th>Toxic effects cannot be excluded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic aquatic toxicity</td>
<td>Toxic effects cannot be excluded</td>
</tr>
</tbody>
</table>


**Bis(alpha,alpha-dimethylbenzyl) peroxide:**

Toxicity to daphnia and other aquatic invertebrates:
- EC50 (Daphnia magna (Water flea)): > 0.397 mg/l
- Exposure time: 48 h
- Method: OECD Test Guideline 202
- Remarks: No toxicity at the limit of solubility.

Toxicity to algae/aquatic plants:
- ErC50 (Pseudokirchneriella subcapitata (green algae)): > 20 mg/l
- Exposure time: 72 h
- Method: OECD Test Guideline 201
- Remarks: No toxicity at the limit of solubility.

NOEC (Pseudokirchneriella subcapitata (green algae)): 8 mg/l
- Exposure time: 72 h
- Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):
- NOEC (Daphnia magna (Water flea)): 0.177 mg/l
- Exposure time: 21 d
- Method: OECD Test Guideline 211

Toxicity to microorganisms:
- NOEC: > 1,000 mg/l
- Exposure time: 30 min
- Remarks: No toxicity at the limit of solubility.

**Persistence and degradability**

**Components:**

**Bis(alpha,alpha-dimethylbenzyl) peroxide:**

Biodegradability:
- Result: Not readily biodegradable.
- Biodegradation: 20.2 %
- Exposure time: 28 d
- Method: OECD Test Guideline 301F

**Bioaccumulative potential**

**Components:**

**Progesterone:**

Partition coefficient: n-octanol/water:
- Pow: 3.65

**Bis(alpha,alpha-dimethylbenzyl) peroxide:**

Bioaccumulation:
- Species: Cyprinus carpio (Carp)
- Bioconcentration factor (BCF): 137 - 1,470
- Method: OECD Test Guideline 305C

Partition coefficient: n-octanol/water:
- log Pow: 5.6

**Mobility in soil**

No data available

**Other adverse effects**

No data available
SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
- Waste from residues: Dispose of in accordance with local regulations.
- Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations
- UNRTDG: Not regulated as a dangerous good
- IATA-DGR: Not regulated as a dangerous good
- IMDG-Code: Not regulated as a dangerous good
- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable for product as supplied.

Domestic regulation
- 49 CFR: Not regulated as a dangerous good
- Special precautions for user: Not applicable

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity
This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards
- Carcinogenicity
- Reproductive toxicity
- Specific target organ toxicity (single or repeated exposure)

SARA 313
- 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.

US State Regulations
Pennsylvania Right To Know
Siloxanes and Silicones, dimethyl, methylvinyl, vinyl group-68083-18-1
SAFETY DATA SHEET

Progesterone Formulation (Veterinary)

Version 4.0  Revision Date: 08/27/2021  SDS Number: 2183757-00009  Date of last issue: 04/09/2021  Date of first issue: 11/15/2017

terminated
Quartz  14808-60-7
Silicon dioxide  7631-86-9
Progesterone  57-83-0

California Prop. 65
WARNING: This product can expose you to chemicals including Quartz, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances
Silicon dioxide  7631-86-9
Progesterone  57-83-0

California Permissible Exposure Limits for Chemical Contaminants
Quartz  14808-60-7
Silicon dioxide  7631-86-9

California Regulated Carcinogens
Quartz  14808-60-7

The ingredients of this product are reported in the following inventories:
AICS: not determined
DSL: not determined
IECSC: not determined

SECTION 16. OTHER INFORMATION

Further information
NFPA 704:

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

HMIS® IV:

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>*</td>
<td>4</td>
<td>1</td>
</tr>
</tbody>
</table>

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations
ACGIH: USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL: USA. NIOSH Recommended Exposure Limits
<table>
<thead>
<tr>
<th>Version</th>
<th>SDS Number</th>
<th>Date of issue</th>
<th>Date of first issue</th>
</tr>
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<tr>
<td>4.0</td>
<td>2183757-00009</td>
<td>04/09/2021</td>
<td>11/15/2017</td>
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**OSHA CARC**: OSHA Specifically Regulated Chemicals/Carcinogens

**OSHA Z-1**: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

**OSHA Z-3**: USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts

**ACGIH / TWA**: 8-hour, time-weighted average

**NIOSH REL / TWA**: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek

**OSHA CARC / PEL**: Permissible exposure limit (PEL)

**OSHA Z-1 / TWA**: 8-hour time weighted average

**OSHA Z-3 / TWA**: 8-hour time weighted average


**Revision Date**: 08/27/2021

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.
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