



Revision date: Initial version
Date of review: 11.24.2017

Page: 1/10

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| Trade name: | Ovaprim |
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SECTION 1: Identification

Product identifier: Ovaprim
Synonyms: None available
Product Code Number: None available
SDS number: WC002
Recommended use: Ovaprim (Salmon gonadotropin releasing hormone analog (sGnRHa) + domperidone) is an FDA indexed (FDA MIF 900-001) injectable spawning agent for use as a spawning aid in ornamental finfish broodstock.
Recommended restrictions: None known

Manufacturer/Importer/Supplier/Distributor information:
Company Name: Syndel USA
Company Address: 1441 W. Smith Road
Ferndale, WA 98248
Company Telephone: Office hours (Mon – Fri)
8:30 am to 5:00 pm
1-800-283-5292
Company Contact Name: Main Office
Emergency phone number: CHEMTREC 24 HOUR EMERGENCY NUMBER:
1-800-424-9300

SECTION 2: Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200:

Physical hazards

No physical hazards for this product

Health hazards

Reproductive toxicity, Category 1B

Environmental hazards

No environmental hazards for this product

GHS Signal word: DANGER

GHS Hazard statement(s): May damage fertility or the unborn child

GHS Hazard symbol(s):



GHS Precautionary statement(s):

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 to a suitable treatment site in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

Classified (HNOC): None known.

Percentage of ingredient(s) of unknown acute toxicity: Not applicable.

SECTION 3: Composition/information on ingredients

Mixture:

| Chemical name | CAS# | Concentration (weight %) |
|----------------------|------------|--------------------------|
| Domperidone | 57808-66-9 | 1% |
| Salmon GnRH α | N/A | <0.1% |

Note: The balance of the ingredients are not classified as hazardous, or are below the classification threshold under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

SECTION 4: First-aid measures

Description of necessary measures:

Inhalation: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Skin contact: In case of contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and wash before re-using. Call a physician.

Eye contact: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Ingestion: If swallowed, if the person is conscious, wash out mouth with copious amounts of water. NEVER GIVE LIQUIDS TO AN UNCONCIOUS PERSON. Call a physician.

Most important symptoms/effects, acute and delayed: May damage fertility or the unborn child.

Indication of immediate medical attention and special treatment needed: There is no specific antidote and treatment should be directed at the control of symptoms and the clinical condition.

SECTION 5: Fire-fighting measures

Suitable extinguishing media: Carbon dioxide (CO₂), dry chemical, water spray, mist or foam.

Unsuitable extinguishing media: No data available.

Specific hazards arising from the chemical: May be combustible at high temperatures. May be ignited by heat, sparks or flames.
Combustion products – Carbon monoxide, carbon dioxide.

Special protective equipment and precautions for fire-fighters: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of aerosol. Wear appropriate protective equipment, such as respirator, gloves, goggles and protective clothing, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

Environmental Precautions: Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. If spill occurs on water notify appropriate authorities and advise shipping of any hazard.

Methods and material for containment and cleaning up: Soak up with appropriate absorbent material, sweep up and collect in a bag for waste disposal. Ventilate area and wash thoroughly after cleanup is complete.

SECTION 7: Handling and storage

Precautions for safe handling: Use in a well-ventilated area. Avoid inhalation, contact with eyes, skin, and clothing. Avoid repeated or prolonged exposure. Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8).

Conditions for safe storage, including any incompatibles: Keep container tightly closed. Dispose of in accordance to local, state, federal, and international guidelines.

SECTION 8: Exposure controls/personal protection

Control Parameters:

Occupational exposure limits:

| US OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200): Permissible Exposure Limits | | |
|---|-----------------------------|------------------------------|
| Substance | PEL-TWA (8 hour) | PEL-STEL (15 min) |
| Domperidone | No data available | No data available |
| Salmon GnRH α | No data available | No data available |

| US ACGIH Threshold Limit Values | | |
|--|-----------------------------|------------------------------|
| Substance | TLV-TWA (8 hour) | TLV-STEL (15 min) |
| Domperidone | No data available | No data available |
| Salmon GnRH α | No data available | No data available |

| NIOSH Exposure Limits | | |
|------------------------------|-------------------|-------------------|
| Substance | TWA | STEL |
| Domperidone | No data available | No data available |
| Salmon GnRH α | No data available | No data available |

Appropriate engineering controls: Mechanical exhaust required. Use sufficient natural or mechanical ventilation to keep dust level below the PEL where available.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Use chemical safety goggles. Eye protection should be compliant with OSHA regulations.

Skin and hand protection: Wearing chemical resistant gloves impervious to the specific material handled is advised to prevent skin contact. Gloves must be inspected prior to use.

Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection: Wear approved respirator and use mechanical ventilation if possible. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Other: Wear protective boots, and apron or lab coat. Safety shower and eye bath.

Thermal hazards: No data available.

SECTION 9: Physical and chemical properties

Appearance

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| Physical state: | Liquid |
| Color: | Clear, colorless |
| Odor: | Odorless |
| Odor threshold: | No data available |
| pH: | No data available |
| Melting point/freezing point: | -59 °C/-74.2 °F (main component) |
| Initial boiling point and boiling range: | 188 °C/370.4 °F (main component) |
| Flash point: | No data available |
| Evaporation rate: | No data available |
| Flammability (solid, gas): | Non-flammable |
| Upper/lower flammability or explosive limits | |
| Flammability limit – lower (%): | Not applicable |
| Flammability limit – upper (%): | Not applicable |
| Explosive limit – lower (%): | 2.6% (main component) |
| Explosive limit – upper (%): | 12.5% (main component) |
| Vapor pressure: | 0.017 @ 20°C (kPa) (main component) |
| Vapor density: | 2.62 (main component) |
| Relative density (Specific gravity): | 1.036 g/cm ³ @ 20 °C (main component) |
| Solubility (ies): | Miscible in water. |
| Partition coefficient (n-octanol/water): | -0.92 (main component) |
| Auto-ignition temperature: | 371 °C/700 °F (main component) |
| Decomposition temperature: | No data available |
| Viscosity: | No data available |

Other information:

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| Water content | 0% |
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SECTION 10: Stability and reactivity

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| Reactivity: | Not chemically reactive. |
| Chemical stability: | Stable under normal ambient and anticipated conditions of use. |

Possibility of hazardous reactions: Hazardous reactions not anticipated.
Conditions to avoid: No data available.
Incompatible materials: Strong oxidizing agents.
Hazardous decomposition Products: Carbon monoxide and carbon dioxide gases.

SECTION 11: Toxicological information

Information on likely routes of exposure:

Inhalation: Inhalation is an expected route of exposure.
Ingestion: Ingestion is an expected route of exposure.
Skin: Skin contact is an expected route of exposure.
Eyes: Eye contact is an expected route of exposure.

Symptoms related to the physical, chemical, and toxicological characteristics:

May damage fertility or the unborn child.

The toxicological properties of sGnRHa have not been thoroughly investigated. The actions are similar to luteinizing hormone releasing hormone (LHRH, Gonadotropin releasing hormone, GnRH) in humans. LHRH is the key mediator in the liberation of the pituitary gonadotropins, luteinizing hormone (LH) and follicle stimulating hormone (FSH). LHRH may modify reproductive ability by influencing plasma gonadotropin levels and concomitantly gonadal steroid levels.

Delayed and immediate effects and chronic effects from short or long-term exposure:

May damage fertility or the unborn child.

Numerical measures of toxicity:

Ingredient Information:

| Substance | Test Type (species) | Value |
|--------------|------------------------------------|-------------------|
| Domperidone | LD ₅₀ Oral (Rat) | 5243 mg/kg |
| | LD ₅₀ Intravenous (Rat) | 41700 ug/kg |
| | LC ₅₀ Inhalation (Rat) | No data available |
| Salmon GnRHa | LD ₅₀ Oral (Rat) | No data available |
| | LD ₅₀ Dermal (Rabbit) | No data available |
| | LC ₅₀ Inhalation (Rat) | No data available |

Product Acute Toxicity Estimates:

Acute Oral Toxicity - no data available
Acute Dermal Toxicity - no data available
Acute Inhalation Toxicity - no data available

Skin corrosion/irritation: May cause mild skin irritation.

Serious eye damage/eye irritation: May cause mild eye irritation.

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| Respiratory sensitization: | No information available on the mixture, however none of the components have been classified as a respiratory sensitizer (or are below the concentration threshold for classification). |
| Skin sensitization: | No information available on the mixture, however none of the components have been classified as a skin sensitizer (or are below the concentration threshold for classification). |
| Germ cell mutagenicity: | No information available on the mixture, however none of the components have been classified for germ cell mutagenicity (or are below the concentration threshold for classification). |
| Carcinogenicity: | No information available on the mixture, however none of the components are listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA. |
| Reproductive toxicity: | No information available on the mixture, however two of the components have been classified for reproductive toxicity: Domperidone, Salmon GnRH α . |
| Specific target organ toxicity- Single exposure: | No information available on the mixture, however none of the components have been classified for STOT SE (or are below the concentration threshold for classification). |
| Specific target organ toxicity- Repeat exposure: | No information available on the mixture, however none of the components have been classified for STOT RE (or are below the concentration threshold for classification). |
| Aspiration hazard: | No information available on the mixture, however none of the components have been classified for aspiration hazard (or are below the concentration threshold for classification). |
| Further information: | No data available. |

SECTION 12: Ecological information

Ecotoxicity:

Product data: No data available

Ingredient Information:

| Substance | Test Type | Species | Value |
|--------------|---------------------|-----------------------|-------------------|
| Domperidone | LC ₅₀ | Fish | No data available |
| | LC ₅₀ | Aquatic Invertebrates | No data available |
| | EC/LC ₅₀ | Bacteria | No data available |
| Salmon GnRHa | LC ₅₀ | Fish | No data available |
| | LC ₅₀ | Aquatic Invertebrates | No data available |
| | EC/LC ₅₀ | Bacteria | No data available |

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other adverse effects: None known.

SECTION 13: Disposal considerations

Disposal instructions:

Observe all governmental regulations governing disposal. Dissolve in a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

SECTION 14: Transport information

US Department of Transportation Classification (49CFR)

Not regulated under DOT.

IMDG

Not regulated under IMDG.

IATA (Country variations may apply)

Not regulated under IATA.

Environmental hazards

Marine pollutant: No.

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

No further relevant information available.

Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.

None.

SECTION 15: Regulatory information

USA:

United States Federal Regulations: This SDS complies with the OSHA, 29 CFR 1910.1200. The product is hazardous under OSHA.

Toxic Substances Control Act (TSCA) – All substances in this product are listed, as required, or are exempt from the TSCA inventory.

SARA Superfund and Reauthorization Act of 1986 Title III sections 302, 311,312 and 313:

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

CERCLA Hazardous Substance List, 40 CFR 302.4: This product does not contain chemicals listed on CERCLA.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): None.

SARA Title III

Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A): None.

Section 311/312 (40 CFR 370):

Acute Health Hazard: Yes

Chronic Health Hazard: No

Fire Hazard: No

Pressure Hazard: No

Reactivity Hazard: No

Section 313 Toxic Release Inventory (40 CFR 372): None

STATE REGULATIONS:

This SDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986): No components are listed on Prop 65.

Massachusetts Right to Know: None of the components are listed on the Massachusetts Right to Know List.

New Jersey Right to Know: None of the components are listed on the New Jersey Right to Know list.

Pennsylvania Right to Know: None of the components are listed on the Pennsylvania Right to Know List.

Canada WHMIS Hazard Class: D2A –Very toxic material.

SECTION 16: Other information

Revision Date: September 17, 2015

To the best of our knowledge, the information contained herein is accurate. However Syndel USA does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.