This SDS packet was issued with item:

078385047

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078924760



Material Safety Data Sheet

Factrel

WW MSDS No. 30-4311

| Section 1. Produc | ct and Company Identification | |
|------------------------------|--|--|
| Manufactured/ Supplied by | Fort Dodge Animal Health 800 5th Street NW P.O. Box 518 | Date of 16 January 2002 Preparation |
| | F.O. Box 518 Fort Dodge, IA 50501 Phone: 515-955-4600 Fax: 515-955-9149 | Product No. 30-4311 |
| Product Trade Name | Factrel | Formula No. Not available. |
| Common Name | Not applicable. | CAS No. Mixture. |
| Synonyms | Gonadorelin Hydrochloride | U.N. No. Not applicable. |
| Chemical Formula | Mixture. | EINECS No. Not applicable. |
| Chemical Family | Veterinary pharmaceutical. | |
| Material Uses | Pharmaceutical industry: Veterinary Pharmaceutical | In Case of Emergency 515-955-6033 |
| Packaging | Vial. | |
| Formula Type | Injectable solution. | |

| Section 2. Composition - Information on Ingredients | | | | |
|--|---|----------|----|---|
| Name of IngredientsCAS No.Conc.EU SymbolR Phrase | | | | |
| Gonadorelin hydrochloride Benzyl Alcohol Sodium Chloride Water For Injection. | 9034-40-6 100-51-6 7647-14-5 7732-18-5 | 2 0.6 | Xn | Not controlled. R20/22 Not controlled. Not controlled. |

| Section 3. Hazards | Section 3. Hazards Identification - Summary of Primary Effects and Critical Hazards | | | | | |
|------------------------|--|--|--|--|--|--|
| Acute Health Effects | e Health Effects Significant adverse health effects are associated with chronic high level exposures. | | | | | |
| Chronic Health Effects | MUTAGENIC EFFECTS : Mutagenic for mammalians [Benzyl Alcohol]. [Benzyl Alcohol]. Mutagenic for mammalians Mutagenic for mammalians [Sodium Chloride]. [Sodium Chloride]. Mutagenic for mammalians Potential organ systems affected are: Reproductive Organs. Adverse effects could include: abdominal cramps/pain | | | | | |
| Environmental Hazards | No known significant effects or critical hazards. | | | | | |

| Section 4. First Aid Measures - (by medical responders using "Universal Precautions") | | | | |
|---|--|--|--|--|
| Eye Contact | Flush eyes with plenty of water for 15 minutes, occasionally lifting upper and lower eyelids. (Check person for contact lenses and remove if present.) If redness or irritation persists have eyes examined by doctor immediately. | | | |
| Skin Contact | Flush skin with plenty of soap and water for at least 15 minutes (remove all contaminated clothing and shoes). Get medical attention if symptoms persist. | | | |
| Inhalation | No specific treatment, treat symptomaticaly. If breathing is difficult give oxygen, if respiratory arrest occurs provide artificial respiration and seek immediate medical assistance. | | | |
| Ingestion | No specific treatment, treat symptomatically. Call medical doctor or poison control center immediately if large quantities are ingested. | | | |

Notes to Medical Doctor Direct treatment at control of symptoms.

| Section 5. Fire-Fighting Measures | | | | |
|---|--|--|--|--|
| Extinguishing Media and Instructions | Follow your company's procedures. Use an extinguishing agent suitable for the surrounding class of fire. | | | |
| Special Exposure Hazards | In certain Fire conditions, traces of other toxic gases may be emitted. | | | |
| Special Fire Fighting Protective Equipment | No special product precautions or equipment. | | | |

| Section 6. Accidental Release Measures | | | | |
|--|--|--|--|--|
| Small Spill Guidelines | Follow your company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see Section 8). Use a tool to scoop up solid or absorbed material and put into appropriate labeled waste container. | | | |
| Large Spill Guidelines | Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see Section 8). | | | |
| Environmental Precautions | No special measures are typically indicated. | | | |

| Section 7. Handling and Storage | | | |
|--|--|--|--|
| Handling (ventilation and fire prevention) | Avoid contact with eyes, skin, and clothing. Avoid generating or breathing product aerosol. Wash after handling. | | |
| Storage (conditions and limitations) | Store tightly closed in original container. Keep containers in a well ventilated, secure location. | | |

| Section 8. Exposu | re Controls and Person | nal Protecti | on - (normal an | nd intended use) | |
|--|--|----------------------|--------------------|----------------------------|---|
| Exposure Guidelines | | | | | |
| Component | | REG. Limit | OSHA (PEL) | ACGIH (TLV®) | Company Guideline |
| 1) Benzyl Alcoho | I TWA: | 44 mg/m ³ | | | |
| Engineering Design and Control Measures | | to work station | Clean, appropria | | alues. Provide eye wash and of all potentially contaminated |
| Protective Clothing | | | | | |
| Eyes | Safety glasses, goggles or t | face shield whe | re product aerosol | or splash potential exists | |
| Skin | Lab coat. | | | | |
| Hands | Gloves, Chemical resistant. | | | | |
| Respiratory | Respirator selection must b the selected respirator. A re | | | | and the safe working limits of ns of product use. |

| Factrel | Page Number: 3 of 5 | | |
|----------------------------------|--|------------------------|----------------|
| Section 9. Physica | al and Chemical Properties | | |
| Physical State and Appearance | Liquid. (Liquid.) | .iquid. (Liquid.) Odor | Not available. |
| Molecular Weight | Mixture. | Color | Clear |
| Boiling Point | 100°C (212°F) | рН | Not available |
| Melting/Freezing Point | 0°C (32°F) | | |
| Density/Bulk Density | not applicable | | |
| Vapor Pressure | 18 mm of Hg (@ 20°C) | | |
| Vapor Density | Not applicable | | |
| Viscosity | Not available. | | |
| Partition Coefficient | Not available. | | |
| Solubility | Factrel : Easily soluble in cold water, hot water. | | |
| Flash Point | Not applicable | | |
| Autoignition Point | Not applicable | | |
| Explosion Limits | Not applicable | | |
| Dust Explosivity | Not applicable. | | |

| Section 10. Stability and Reactivity | | | | |
|--|---|--|--|--|
| Conditions to Avoid and Incompatibility | Reactive with acids, alkalis. Slightly reactive to reactive with oxidizing agents, metals. | | | |
| Decomposition Products | nese products are carbon oxides (CO, CO2). Some metallic oxides. | | | |

Section 11. Toxicological Information

| Acute Effects | | | | | | |
|-----------------------|----------------|----------------------|--|----------------------------|------------------------|--|
| Component | | Test | Result | Route | Species | |
| 1) Gonadorelin hydr | ochloride | LD50 | >3000 mg/kg | oral | Rat | |
| 2) Benzyl Alcohol | | LD50 LD50 LD50 | >4000 mg/kg 1230 mg/kg 1040 mg/kg | oral oral oral | Mouse Rat Rabbit | |
| 0) Os divers Oblasida | | | 2000 mg/kg 1000 (8 hour(s)) | dermal inhalation | Rabbit Rat | |
| 3) Sodium Chloride | | LD50 LD50 LC50 | 3000 mg/kg 4000 mg/kg >42000 mg/m³ (1 hour(s)) | oral oral inhalation | Rat Mouse Rat | |
| Eye Contact | Moderately irr | itating (USA) | . Irritating (EU). | | | |
| Skin Contact | Non-irritating | (EU & USA). | | | | |
| Inhalation | Not available. | | | | | |
| Ingestion | Harmful if swa | llowed. | | | | |
| Chronic Effects | | | | | | |

| ctrel | Page Number: 4 of 5 |
|-------------------------------|---|
| Target Organs | Potential organ systems affected are: Reproductive Organs. |
| Adverse Effects Statements | Adverse effects could include: abdominal cramps/pain |
| Sensitization | Not available. |
| Carcinogenic Effects | Not classified or listed by IARC, NTP, OSHA, EU and ACGIH. |
| Mutagenic Effects | Mutagenic for mammalians [Benzyl Alcohol]. Mutagenic for bacteria and/or yeast. [Benzyl Alcohol]. Mutagenic for mammalians [Sodium Chloride]. Mutagenic for bacteria and/or yeast. [Sodium Chloride]. |
| Teratogenic Effects | No known human teratogenic effect |
| Reproductive Effects | PROVEN |
| Other Effects | Not available. |

| Section 12. Ecolog | ical Informa | tion | | | | | | |
|-----------------------|----------------|-----------------------------|-------------|---------|--------|------|--|--|
| Environmental Fate | Not available. | | | | | | | |
| Environmental Hazards | No known sigr | nificant effects or critica | al hazards. | | | | | |
| Ecotoxicity | | | | | | | | |
| Component | | Species | Perio | bd | Result | | | |
| 1) Benzyl Alcohol | | EC50 (daphnia) | 48 | hour(s) | 360 | mg/l | | |
| | | Fish | 96 | hour(s) | 460 | mg/l | | |
| | | Bluegill | 96 | hour(s) | 10 | mg/l | | |
| Other | Not available. | | | | | | | |

| Section 13. Dispo | osal Considerations |
|-----------------------------|--|
| Waste Handling and Disposal | Avoid disposal, make attempts to use product completely in accordance with intended use. Incinerate unwanted products and waste materials. |
| Note: The waste general | tor must be informed of and follow all applicable rules and regulations for the handling and disposal of waste. |

| Section 14. Transp | ort Information | |
|---|-----------------|--------------------------|
| Proper Shipping Name, Primary Class, UNNA Number, Pakaging Group | Not controlled. | |
| ADR/RID Classification (Road and Rail Transport) | Not controlled. | |
| ADNR Classification (Inland Waterways) | Not controlled. | |
| IMO/IMDG Class (Maritime Transport) | Not controlled. | |
| ICAO/IATA (Air Transport) | Not controlled. | |
| CEFIC Tremcard | Not available. | HI Kemler Not available. |

Continued on Next Page Obtained by Global Safety Management, Inc. (www.globalsafetynet.com)

| Factrel Page Number: 5 o | | |
|--------------------------|-----------------|-----------------|
| U.S.A. DOT Class | Not controlled. | Health Health |
| RQ | Not applicable. | Specific hazard |
| Packaging Intructions | Not available. | |

| Section 15. Regu | latory Information and Warning Labels | |
|----------------------|--|-----------------|
| (R) Risk Phrases | Not applicable. | Not applicable. |
| (S) Safety Phrases | Not available | |
| NOTE: This product h | s been classified in accordance with applicable country-specific | regulations. |

| Section 16. Other Key Information | | |
|--|---|--|
| Other Considerations | See product label and package insert for additional information. | |
| 19 January 2002 | Responsible for MSDS: Global Engineering, Environmental and Safety | |
| Fort Dodge Animal He | alth within American Home Products Corporation | |
| Notice to Reader * This symbol indicates in | nformation which has changed from the previous MSDS. | |
| The information provid | ed in this MSDS is based on current knowledge, however, this does not constitute a warranty by the Company for that | |

The information provided in this MSDS is based on current knowledge, however, this does not constitute a warranty by the Company for that information. The product user is responsible for the appropriate and intended handling, use, and disposal of this product in accordance with label or package precautions and this information. All materials may present unknown hazards and should be used with caution.

MSDSs available in multiple languages



Revision date: 03-Jun-2015

Version: 2.2

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Identifier

Material Name: Gonadorelin Hydrochloride Solution

Trade Name: Chemical Family: FACTREL Gonadotropin-releasing hormone

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against Intended Use: Veterinary product used for estrus synchronization Restrictions on Use: Not for human use

Details of the Supplier of the Safety Data Sheet

Zoetis Inc.Zoetis B100 Campus Drive, P.O. Box 651MercuriuFlorham Park, New Jersey 07932 (USA)1930 ZavRocky Mountain Poison and Drug Center Phone: 1-866-531-8896BelgiumProduct Support/Technical Services Phone: 1-800-366-5288Product Support/Services

Emergency telephone number: CHEMTREC (24 hours): 1-800-424-9300 Contact E-Mail: VMIPSrecords@zoetis.com Zoetis Belgium S.A. Mercuriusstraat 20 1930 Zaventem Belgium

Emergency telephone number: International CHEMTREC (24 hours): +1-703-527-3887

2. HAZARDS IDENTIFICATION

Appearance:

Liquid

Classification of the Substance or Mixture GHS - Classification Not classified as hazardous

EU Classification:

EU Indication of danger: Not classified

Label Elements

Signal Word: Hazard Statements: Not Classified Non-hazardous in accordance with international standards for workplace safety.

Other Hazards Short Term:

May cause eye irritation , May cause slight skin irritation. (based on components) In the event of accidental injection, an allergic reaction may occur. Signs and symptoms might include skin rash, itching, redness or swelling. Respiratory reactions may be characterized by rhinitis, sneezing, scratchy throat, oral mucosal edema, laryngeal mucosal edema, coughing, shortness of breath, wheezing, and chest pain. Asthma like reactions occur with acute exposures in sensitized patients. If an allergic reaction occurs, the worker should be removed to the nearest emergency room and the appropriate therapy instituted. Systemic exposure may affect reproductive hormone regulation and thus affect fertility and maintenance of pregnancy.

| Long Term: Australian Hazard Classification (NOHSC): | Repeated exposure to dust or mist may produce allergic reactions. Non-Hazardous Substance. Non-Dangerous Goods. |
|--|---|
| Note: | This document has been prepared in accordance with standards for workplace safety, which requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace. |

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient | CAS Number | EU EINECS/ELINCS List | EU Classification | GHS Classification | % |
|---------------------------|------------|-----------------------------|-------------------|--|----------|
| Benzyl Alcohol | 100-51-6 | 202-859-9 | - | Acute Tox.4 (H302) Acute Tox.4 (H332) | |
| Sodium chloride | 7647-14-5 | 231-598-3 | Not Listed | Not Listed | 0.6 |
| Gonadorelin hydrochloride | 51952-41-1 | Not Listed | Repr.Cat.2;R60 | Repr. 1B (H360F) Lact. (H362) | 50 ug/ml |

| Ingredient | CAS Number | EU EINECS/ELINCS List | EU Classification | GHS Classification | % |
|---------------------|------------|-----------------------------|-------------------|-----------------------|------|
| Water for injection | 7732-18-5 | 231-791-2 | Not Listed | Not Listed | 97.4 |

Additional Information: Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety.

For the full text of the R phrases and CLP/GHS abbreviations mentioned in this Section, see Section 16

4. FIRST AID MEASURES

| Description of First Aid Measures Eye Contact: | Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention immediately. |
|---|--|
| Skin Contact: | Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek medical attention. |
| Ingestion: | Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately. |
| Inhalation: | Remove to fresh air and keep patient at rest. Seek medical attention immediately. |
| Most Important Symptoms and Effe Symptoms and Effects of Exposure: Medical Conditions Aggravated by Exposure: | cts, Both Acute and Delayed For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information. None known |
| Indication of the Immediate Medical | Attention and Special Treatment Needed |

Notes to Physician: None

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5. FIRE-FIGHTING MEASURES

| Extinguishing Media: | Extinguish fires with CO2, extinguishing powder, foam, or water. |
|---|---|
| Special Hazards Arising from the Sub Hazardous Combustion Products: | ostance or Mixture Formation of toxic gases is possible during heating or fire. |
| Fire / Explosion Hazards: | Fine particles (such as dust and mists) may fuel fires/explosions. |
| Advice for Fire-Fighters During all fire fighting activities, w | vear appropriate protective equipment, including self-contained breathing apparatus. |
| 6. / | ACCIDENTAL RELEASE MEASURES |
| Personal Precautions, Protective Equ Prevent exposure by any route. E protective equipment (see Section | Ensure adequate ventilation. Avoid dust and mist generation. Personnel must wear appropriate |
| Environmental Precautions Place waste in an appropriately la | abeled, sealed container for disposal. Care should be taken to avoid environmental release. |
| Methods and Material for Containmen Measures for Cleaning / Collecting: | nt and Cleaning Up Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill area thoroughly. Prevent discharge to drains. |
| Additional Consideration for Large Spills: | Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel. |
| | 7 HANDLING AND STORAGE |

Precautions for Safe Handling

Use with adequate ventilation. Avoid accidental injection. Restrict access to work area. Avoid open handling. Minimize generating airborne mists and vapors. Use process containment, local exhaust ventilation or perform work under fume hood/fume cupboard. Avoid inhalation and contact with skin, eye, and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash hands and any exposed skin after removal of PPE. Releases to the environment should be avoided.

Conditions for Safe Storage, Including any Incompatibilities Storage Conditions: Protect from light. Store

Protect from light. Store under refrigeration in closed container. Protect from freezing. Keep out of reach of children. Store as directed by product packaging. 2-8°C (36-46°F)

Storage Temperature: Specific end use(s):

No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

5.0 mg/m³

40 mg/m³

10 ppm 45 mg/m³ 5 mg/m³

Control Parameters

Refer to available public information for specific member state Occupational Exposure Limits.

Benzyl Alcohol

Bulgaria OEL - TWA Czech Republic OEL - TWA Finland OEL - TWA

Latvia OEL - TWA

PZ01496

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| | SURE CONTROLS / PERSONAL PROTECTION | |
|--|--|--|
| Lithuania OEL - TWA | 5 mg/m ³ | |
| Poland OEL - TWA | 240 mg/m ³ | |
| Sodium chloride | | |
| Latvia OEL - TWA | 5 mg/m ³ | |
| Lithuania OEL - TWA | 5 mg/m ³ | |
| when the available data are sufficient | posure Band (OEB) classification system is to separate substances into different Hazard categorie nt to do so, but inadequate to establish an Occupational Exposure Limit (OEL). The OEB given is ntly available data; as such, this value may be subject to revision when new information becomes | |
| Gonadorelin hydrochloride | | |
| Zoetis OEB | OEB 5 (control exposure to <1ug/m ³) | |
| Exposure Controls | | |
| Engineering Controls: | Engineering controls should be used as the primary means to control exposures. Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits or within the OEB range. | |
| Personal Protective | Refer to applicable national standards and regulations in the selection and use of personal | |
| Equipment: | protective equipment (PPE). | |
| Hands: | Wear impervious gloves if skin contact is possible. | |
| Eyes: | Safety glasses or goggles | |
| Skin: | Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas. | |
| Respiratory protection: | If airborne exposures are within or exceed the OEB, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEB range. Respiratory prot should be worn to supplement engineering controls when handling this compound. | |

9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical State: Odor: Molecular Formula: | Liquid preparation No data available. Mixture | Color: Odor Threshold: Molecular Weight: | Clear No data available. Mixture |
|--|---|--|--|
| Solvent Solubility: | No data available | | |
| Water Solubility: | No data available | | |
| Solubility: | Soluble: Water | | |
| pH: | No data available. | | |
| Melting/Freezing Point (°C): | No data available | | |
| Boiling Point (°C): | No data available. | | |
| Partition Coefficient: (Method, pH, E | Indpoint, Value) | | |
| No data available | | | |
| Decomposition Temperature (°C): | No data available. | | |
| Evaporation Rate (Gram/s): | No data available | | |
| Vapor Pressure (kPa): | No data available | | |
| Vapor Density (g/ml): | No data available | | |
| Relative Density: | No data available | | |
| Viscosity: | No data available | | |
| Flammablity: Autoignition Temperature (Solid) (°C): | | No data available | |
| D70//00 | | | |

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Flammability (Solids): Flash Point (Liquid) (°C): Upper Explosive Limits (Liquid) (% by Vol.): Lower Explosive Limits (Liquid) (% by Vol.): No data available No data available No data available No data available

10. STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions Oxidizing Properties: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: No data available Stable under normal conditions of use.

No data available Fine particles (such as dust and mists) may fuel fires/explosions. As a precautionary measure, keep away from strong oxidizers No data available

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

General Information:

The information in this section describes the potential hazards of the individual ingredients and the formulation. The potential hazards have not been fully evaluated. Exposure by any route should be avoided. Routes of exposure: eye contact, skin contact

Acute Toxicity: (Species, Route, End Point, Dose)

Benzyl Alcohol

RatOralLD501230 mg/kgRatPara-periostealLD5053mg/kgRatInhalationLC50>4.178mg/L

Sodium chloride

Rat Oral LD50 3000 mg/kg Mouse Oral LD50 4000 mg/kg

Gonadorelin hydrochloride

 Rat
 Oral
 LD50
 > 3000 mg/kg

 Rat
 IV
 LD50
 > 150mg/kg

 Mouse
 Intravenous
 LD50
 > 100mg/kg

 Acute Toxicity Comments:
 A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable at the highest dose used in the test.

Irritation / Sensitization: (Study Type, Species, Severity)

Benzyl Alcohol

Eye Irritation Rabbit Severe Skin Irritation Rabbit Minimal Skin Irritation Guinea Pig Moderate

Sodium chloride

Eye Irritation Rabbit Moderate

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11. TOXICOLOGICAL INFORMATION Skin Irritation Rabbit Mild Irritation / Sensitization Comments: May cause eye irritation. Skin Irritation / Sensitization May cause mild skin irritation. Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ) Gonadorelin hydrochloride Monkey Intravenous0.5 mg/kg/day NOAEL No effects at maximum dose 28 Day(s) 28 Day(s) Intravenous 5 µg/kg/day LOAEL Male reproductive system Rat Reproduction & Development Toxicity: (Duration, Species, Route, Dose, End Point, Effect(s)) Gonadorelin hydrochloride Embryo / Fetal Development Rat Intravenous100 ug/kg/day NOAEL No effects at maximum dose Embryo / Fetal Development Mouse Intravenous 100 ug/kg/day NOAEL No effects at maximum dose **Carcinogen Status:** None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA. **Product Level Toxicity Data**

Acute Toxicity Estimate (ATE), oral

>5000 mg/kg

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12. ECOLOGICAL INFORMATION

Environmental Overview:

Environmental properties of the formulation have not been investigated. The following information is available for the individual ingredients. Releases to the environment should be avoided.

Toxicity:

Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

Benzyl Alcohol

Pimephales promelas (Fathead Minnow) EPA LC50 96 Hours 460 mg/L Daphnia magna (Water Flea) OECD EC50 48 Hours 230 mg/L Pseudokirchneriella subcapitata (Green Alga) OECD EC50 72 Hours 500 mg/L

Chronic Aquatic Toxicity: (Species, Method, Duration, Endpoint, Result, Adverse Endpoint)

Benzyl Alcohol Daphnia magna (Water Flea) OECD 21 Day(s) EC50 66 mg/L Reproduction

Persistence and Degradability:

| Benzyl Alcohol | | | | | |
|-----------------------------|------------------|-------------------|-----------|-----------|-------|
| OECD | Activated sludge | Ready | 92% After | 14 Day(s) | Ready |
| | 0 | , | | | |
| Bio-accumulative Potential: | | No data available | | | |
| | | | | | |
| Mobility | in Soil: | | No data a | vailable | |
| , | | | | | |

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Should not be released into the environment. Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.

14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

Material Name: Gonadorelin Hydrochloride Solution Revision date: 03-Jun-2015

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

| Canada - WHMIS: Classifications | |
|--|---|
| WHMIS hazard class: | |
| Non-controlled | |
| This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the informatic required by the CPR. | n |

| Benzyl Alcohol | |
|---|------------|
| CERCLA/SARA 313 Emission reporting | Not Listed |
| California Proposition 65 | Not Listed |
| Inventory - United States TSCA - Sect. 8(b) | Present |
| Australia (AICS): | Present |
| EU EINECS/ELINCS List | 202-859-9 |
| | |
| Sodium chloride | |
| CERCLA/SARA 313 Emission reporting | Not Listed |
| California Proposition 65 | Not Listed |
| Inventory - United States TSCA - Sect. 8(b) | Present |
| Australia (AICS): | Present |
| EU EINECS/ELINCS List | 231-598-3 |
| | 201 000 0 |
| Gonadorelin hydrochloride | |
| CERCLA/SARA 313 Emission reporting | Not Listed |
| California Proposition 65 | Not Listed |
| EU EINECS/ELINCS List | Not Listed |
| | |
| Water for injection | |
| CERCLA/SARA 313 Emission reporting | Not Listed |
| California Proposition 65 | Not Listed |
| Inventory - United States TSCA - Sect. 8(b) | Present |
| Australia (AICS): | Present |
| REACH - Annex IV - Exemptions from the | Present |
| obligations of Register: | riesent |
| EU EINECS/ELINCS List | 231-791-2 |
| | 201-101-2 |

16. OTHER INFORMATION

Text of R phrases and GHS Classification abbreviations mentioned in Section 3

Reproductive toxicity-Cat.1B; H360F - May damage fertility Reproductive toxicity, effects on or via lactation; H362 - May cause harm to breast-fed children Acute toxicity, oral-Cat.4; H302 - Harmful if swallowed Acute toxicity, inhalation-Cat.4; H332 - Harmful if inhaled

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Toxic to Reproduction: Category 2 Xn - Harmful

R60 - May impair fertility. R20/22 - Harmful by inhalation and if swallowed.

| Data Sources: | The data contained in this SDS may have been gathered from confidential internal sources, raw material suppliers, or from the published literature. |
|-----------------------|---|
| Reasons for Revision: | Updated Section 2 - Hazard Identification. Updated Section 7 - Handling and Storage. Updated Section 9 - Physical and Chemical Properties. Updated Section 11 - Toxicology Information. |
| Prepared by: | Toxicology and Hazard Communication Zoetis Global Risk Management |

Zoetis Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet