

SAFETY DATA SHEETS

This SDS packet was issued with item:

078924760

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

078385047



Factrel

Material Safety Data Sheet

WW MSDS No. 30-4311

Section 1. Product and Company Identification

Manufactured/ Supplied by	Fort Dodge Animal Health 800 5th Street NW P.O. Box 518 Fort Dodge, IA 50501 Phone: 515-955-4600 Fax: 515-955-9149	Date of Preparation	16 January 2002
		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.	In Case of Emergency	515-955-6033
Material Uses	Pharmaceutical industry: Veterinary Pharmaceutical		
Packaging	Vial.		
Formula Type	Injectable solution.		

Section 2. Composition - Information on Ingredients

Name of Ingredients	CAS No.	Conc.	EU Symbol	R Phrase
1) Gonadorelin hydrochloride	9034-40-6	<0.1	Not controlled.	Not controlled.
2) Benzyl Alcohol	100-51-6	2	Xn	R20/22
3) Sodium Chloride	7647-14-5	0.6	Not controlled.	Not controlled.
4) Water For Injection.	7732-18-5	97.4	Not controlled.	Not controlled.

Section 3. Hazards Identification - Summary of Primary Effects and Critical Hazards

Acute Health Effects	Significant adverse health effects are associated with chronic high level exposures.
Chronic Health Effects	MUTAGENIC EFFECTS: Mutagenic for mammals [Benzyl Alcohol]. [Benzyl Alcohol]. Mutagenic for mammals Mutagenic for mammals [Sodium Chloride]. [Sodium Chloride]. Mutagenic for mammals 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 symptomatically. 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.

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Obtained by Global Safety Management, Inc. (www.globalsafety.net.com)

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. Exposure Controls and Personal Protection - (normal and intended use)

Exposure Guidelines

Component	REG. Limit	OSHA (PEL)	ACGIH (TLV®)	Company Guideline
1) Benzyl Alcohol	TWA: 44 mg/m ³			

Engineering Design and Control Measures General ventilation is typically sufficient to keep airborne levels below established values. Provide eye wash and quick drench shower close to work station. Clean, appropriately launder, or dispose of all potentially contaminated work clothing, foot wear, and protective equipment after use.

Protective Clothing

Eyes Safety glasses, goggles or face shield where product aerosol or splash potential exists.

Skin Lab coat.

Hands Gloves, Chemical resistant.

Respiratory Respirator selection must be based on anticipated exposure levels, product hazards, and the safe working limits of the selected respirator. A respirator is not needed under normal and intended conditions of product use.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid. (Liquid.)	Odor	Not available.
Molecular Weight	Mixture.	Color	Clear
Boiling Point	100°C (212°F)	pH	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	These products are carbon oxides (CO, CO2). Some metallic oxides.

Section 11. Toxicological Information**Acute Effects**

Component	Test	Result	Route	Species
1) Gonadorelin hydrochloride	LD50	>3000 mg/kg	oral	Rat
	LD50	>4000 mg/kg	oral	Mouse
2) Benzyl Alcohol	LD50	1230 mg/kg	oral	Rat
	LD50	1040 mg/kg	oral	Rabbit
	LD50	2000 mg/kg	dermal	Rabbit
	LC50	1000 (8 hour(s))	inhalation	Rat
3) Sodium Chloride	LD50	3000 mg/kg	oral	Rat
	LD50	4000 mg/kg	oral	Mouse
	LC50	>42000 mg/m ³ (1 hour(s))	inhalation	Rat

Eye Contact Moderately irritating (USA). Irritating (EU).

Skin Contact Non-irritating (EU & USA).

Inhalation Not available.

Ingestion Harmful if swallowed.

Chronic Effects

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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 mammals [Benzyl Alcohol]. Mutagenic for bacteria and/or yeast. [Benzyl Alcohol]. Mutagenic for mammals [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. Ecological Information

Environmental Fate	Not available.
Environmental Hazards	No known significant effects or critical hazards.

Ecotoxicity

Component	Species	Period	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.
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Section 13. Disposal Considerations

Waste Handling and Disposal	Avoid disposal, make attempts to use product completely in accordance with intended use. Incinerate unwanted products and waste materials.
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Note: The waste generator must be informed of and follow all applicable rules and regulations for the handling and disposal of waste.

Section 14. Transport 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.		
CEPIC Tremcard	Not available.	HI Kemler	Not available.

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U.S.A. DOT Class Not controlled.

NFPA

Health



Flammability

Reactivity

Specific hazard

RQ Not applicable.

Packaging Instructions Not available.

Section 15. Regulatory Information and Warning Labels

(R) Risk Phrases Not applicable.

Not applicable.

(S) Safety Phrases Not available

*NOTE: This product has 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 Health -- within American Home Products Corporation

Notice to Reader** This symbol indicates information which has changed from the previous MSDS.**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*

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

Product Identifier

Material Name: Gonadorelin Hydrochloride Solution

Trade Name: FACTREL

Chemical Family: 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.

100 Campus Drive, P.O. Box 651

Florham Park, New Jersey 07932 (USA)

Rocky Mountain Poison and Drug Center Phone: 1-866-531-8896

Product Support/Technical Services Phone: 1-800-366-5288

Zoetis Belgium S.A.

Mercuriusstraat 20

1930 Zaventem

Belgium

Emergency telephone number:

CHEMTREC (24 hours): 1-800-424-9300

Contact E-Mail: VMIPSrecords@zoetis.com

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: Not Classified

Hazard Statements: 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.

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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

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Benzyl Alcohol	100-51-6	202-859-9	Xn; R20/22	Acute Tox.4 (H302) Acute Tox.4 (H332)	2
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 Effects, Both Acute and Delayed

Symptoms and Effects of Exposure: For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information.
Medical Conditions Aggravated by Exposure: 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 Substance or Mixture

Hazardous Combustion Products: 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, wear appropriate protective equipment, including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Prevent exposure by any route. Ensure adequate ventilation. Avoid dust and mist generation. Personnel must wear appropriate protective equipment (see Section 8).

Environmental Precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

Methods and Material for Containment and Cleaning Up

Measures for Cleaning / Collecting: 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 under refrigeration in closed container. Protect from freezing. Keep out of reach of children. Store as directed by product packaging.

Storage Temperature: 2-8°C (36-46°F)

Specific end use(s): No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

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

Benzyl Alcohol

Bulgaria OEL - TWA 5.0 mg/m³

Czech Republic OEL - TWA 40 mg/m³

Finland OEL - TWA 10 ppm

45 mg/m³

Latvia OEL - TWA 5 mg/m³

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8. EXPOSURE 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

The purpose of the Occupational Exposure Band (OEB) classification system is to separate substances into different Hazard categories when the available data are sufficient to do so, but inadequate to establish an Occupational Exposure Limit (OEL). The OEB given is based upon an analysis of all currently available data; as such, this value may be subject to revision when new information becomes available.

Gonadorelin hydrochloride

Zoetis OEB	OEB 5 (control exposure to <1ug/m ³)
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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.
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Personal Protective Equipment:	Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).
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Hands:	Wear impervious gloves if skin contact is possible.
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Eyes:	Safety glasses or goggles
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Skin:	Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.
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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 protection should be worn to supplement engineering controls when handling this compound.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid preparation
Odor:	No data available.
Molecular Formula:	Mixture

Color:	Clear
Odor Threshold:	No data available.
Molecular Weight:	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, Endpoint, 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

Flammability:

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

10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical Stability:	Stable under normal conditions of use.
Possibility of Hazardous Reactions	
Oxidizing Properties:	No data available
Conditions to Avoid:	Fine particles (such as dust and mists) may fuel fires/explosions.
Incompatible Materials:	As a precautionary measure, keep away from strong oxidizers
Hazardous Decomposition Products:	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

Rat	Oral	LD50	1230 mg/kg
Rat	Para-periosteal	LD50	53mg/kg
Rat	Inhalation	LC50	>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

28 Day(s) Monkey Intravenous 0.5 mg/kg/day NOAEL No effects at maximum dose
28 Day(s) Rat Intravenous 5 µg/kg/day LOAEL Male reproductive system

Reproduction & Development Toxicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Gonadorelin hydrochloride

Embryo / Fetal Development Rat Intravenous 100 µg/kg/day NOAEL No effects at maximum dose
Embryo / Fetal Development Mouse Intravenous 100 µg/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

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

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

Benzyl Alcohol

<i>Daphnia magna</i> (Water Flea)	OECD	21 Day(s)	EC50 66 mg/L	Reproduction
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Persistence and Degradability:

Benzyl Alcohol

OECD	Activated sludge	Ready	92% After	14 Day(s)	Ready
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Bio-accumulative Potential: No data available

Mobility in Soil: No data available

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.

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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 information required by the CPR.

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

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 obligations of Register:	Present
EU EINECS/ELINCS List	231-791-2

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