



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
Product Trade Name	Factrel
Common Name	Not applicable.
Synonyms	Gonadorelin Hydrochloride
Chemical Formula	Mixture.
Chemical Family	Veterinary pharmaceutical.
Material Uses	Pharmaceutical industry: Veterinary Pharmaceutical
Packaging	Vial.
Formula Type	Injectable solution.
Date of Preparation	16 January 2002
Product No.	30-4311
Formula No.	Not available.
CAS No.	Mixture.
U.N. No.	Not applicable.
EINECS No.	Not applicable.
In Case of Emergency	515-955-6033

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 [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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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, CO ₂). 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.		

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.
<i>Note: The waste generator must be informed of and follow all applicable rules and regulations for the handling and disposal of waste.</i>	

Section 14. Transport Information	
Proper Shipping Name, Primary Class, UNNA Number, Packaging 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.

U.S.A. DOT Class	Not controlled.	NFPA 
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.

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