

Revision date: 04-Dec-2006

Version: 1.5

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

Pfizer Animal Health Pfizer Inc 235 East 42nd Street New York, NY 10017 Poison Control Center Phone: 1-866-531-8896 Technical Services Phone: 1-800-366-5288

Emergency telephone number: CHEMTREC (24 hours): 1-800-424-9300 Pfizer Ltd Ramsgate Road Sandwich, Kent CT13 9NJ United Kingdom +00 44 (0)1304 616161

Emergency telephone number: ChemSafe (24 hours): +44 (0)208 762 8322

Material Name: Bovine Rhinotracheitis-Virus Diarrhea-Parainfluenza3 Vaccine, Modified Live Virus, Campylobacter Fetus-Leptospira Canicola-Grippotyphosa-Hardjo-Icterohaemorrhagiae-Pomona Bacterin

Trade Name:	PregGuard GOLD(R) FP(TM) 10
Chemical Family:	Mixture
Intended Use:	Veterinary Vaccine

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS List	%
Gentamicin	1403-66-3	215-765-8	##
Formaldehyde	50-00-0	200-001-8	0.1 - 1.0
Merthiolate (as mercury)	54-64-8	200-210-4	##

Ingredient	CAS Number	EU EINECS List	%
Bovine Parainfluenza3	NOT ASSIGNED	Not listed	*
Bovine Rhinotrachetitis	NOT ASSIGNED	Not listed	*
Bovine Virus Diarrhea	NOT ASSIGNED	Not listed	*
Campylobacter fetus	NOT ASSIGNED	Not listed	*
Leptospira canicola	NOT ASSIGNED	Not listed	*
Leptospira grippotyphosa	NOT ASSIGNED	Not listed	*
Leptospira hardjo	NOT ASSIGNED	Not listed	*
Leptospira icterohaemorrhagiae	NOT ASSIGNED	Not listed	*
Leptospira pomona	NOT ASSIGNED	Not listed	*
Water, purified	7732-18-5	231-791-2	>90

Additional Information:

* Proprietary

Trace Ingredient(s) indicated as hazardous have been assessed under standards for workplace

safety.

3. HAZARDS IDENTIFICATION

Appearance: Signal Word: Liquid solution in multiple-dose vials WARNING

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Statement of Hazard: Additional Hazard Information: Short Term:	Contains formaldehyde: potential cancer hazard. May cause sensitization of the skin and respiratory system. May cause eye, skin and respiratory tract irritation. May cause eye and skin irritation. May cause allergic reaction . In the event of accidental injection, an allergic reaction may occur. If an allergic reaction occurs, the worker should be removed to the nearest emergency room and the appropriate therapy instituted.
EU Indication of danger:	Irritant
EU Hazard Symbols:	
EU Risk Phrases:	R43 - May cause sensitization by skin contact.
Note:	This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.
4. FIRST AID MEASURES	
Eye Contact:	Immediately flush eyes with water for at least 15 minutes. If irritation occurs or persists, get medical attention.

Skin Contact: Wash skin with soap and w	water. If irritation occurs or persists, get medical attention.
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Ingestion:	Get medical attention. Do not induce vomiting unless directed by medical personnel. Never
	give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

Extinguishing Media:	As for primary cause of fire.
Hazardous Combustion Products:	Not known
Fire Fighting Procedures:	Dike and collect water used to fight fire.
Fire / Explosion Hazards:	Fine particles (such as dust and mists) may fuel fires/explosions.

6. ACCIDENTAL RELEASE MEASURES

Health and Safety Precautions:	Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.		
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.		

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Measures for Environmental Protections:	Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.
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	
General Handling:	Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use appropriate personal protective equipment.
Storage Conditions:	Store under refrigeration in closed container.
Storage Temperature:	2-7°C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Formaldehyde

OSHA - Final PELS - TWAs:	= 0.75 ppm TWA
OSHA - Specifically Regulated Chemicals	 = 0.5 ppm Action Level = 0.75 ppm TWA = 2 ppm STEL Irritant and potential cancer hazard - see 29 CFR 1910.1048
ACGIH Ceiling Threshold Limit:	= 0.3 ppm Ceiling
ACGIH - Sensitizer Designation	Sensitizer
Australia STEL	= 2 ppm STEL = 2.5 mg/m ³ STEL
Australia TWA	= 1 ppm TWA = 1.2 mg/m ³ TWA
Merthiolate (as mercury)	
OSHA - Final PELS - TWAs:	= 0.01 mg/m ³ TWA
ACGIH Threshold Limit Value (TWA)	= 0.01 mg/m ³ TWA
ACGIH Threshold Limit Value (STEL)	= 0.03 mg/m ³ STEL
ACGIH - Skin Absorption Designation	Skin - potential significant contribution to overall exposure by the cutaneous route
Australia STEL	= 0.03 mg/m ³ STEL
Australia TWA	= 0.01 mg/m ³ TWA

Engineering Controls:

Engineering controls should be used as the primary means to control exposures. Exposure monitoring may be necessary to determine requirements.

Personal Protective Equipment:

Hands:	Wear impervious gloves if skin contact is possible.
Eyes:	Safety glasses or goggles
Skin:	Wear protective clothing when working with large quantities. Wash hands and arms thoroughly after handling this material.
Respiratory protection:	In the event of a spill where the applicable Occupational Exposure Limit (OEL) may be exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures below the OEL.

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9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State:	Liquid solution in multiple-dose vials	Color:	No data available.
Molecular Formula:	Mixture	Molecular Weight:	Mixture
Solubility: pH: Boiling Point (°C): Vapor Pressure (kPa): Specific Gravity:	Soluble: Water (based on components) 7.0 +/- 1.5 >100 Expected to be negligible 1.0 +/-0.2)	

Stability: Conditions to Avoid:	Stable Store at 2°-7°C. Prolonged exposure to higher temperatures may adversely affect potency. Do not freeze.
Incompatible Materials:	This material can be denatured or inactivated by a variety of organic solvents, salts or heavy metals.
Hazardous Decomposition Products Polymerization:	: None expected under normal conditions. Will not occur

11. TOXICOLOGICAL INFORMATION

10. STABILITY AND REACTIVITY

General Information: The antigens included in this product are non-infectious. All have been prepared from killed or inactivated preparations of microorganisms. The primary hazards are due to the formaldehyde content. The information included in this section describes the potential hazards of the individual ingredients.

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

Merthiolate (as mercury)

Rat Oral LD50 75 mg/kg Rat Subcutaneous LD50 98 mg/kg

Gentamicin

Rat Oral LD50 6600 mg/kg Rat Subcutaneous LD50 710 mg/kg Mouse IM LD50 167 mg/kg Rat IM LD50 463 mg/kg

Formaldehyde

Rat Oral LD50 800 mg/kg Inhalation Acute Toxicity

Not determined for this mixture. However, irritation may occur based on effects of individual components.

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

Merthiolate (as mercury) Eye Irritation Rabbit Mild

Gentamicin

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Eye Irritation Rabbit Non-irritating

Formaldehyde

 Eye Irritation
 Rabbit
 Severe

 Skin Irritation
 Rabbit
 Moderate Severe

 Skin Irritation / Sensitization
 This product contains formaldehyde and merthiolate which are considered to be skin sensitizers.

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Formaldehyde

90 Day(s)	Dog Inhalation Not Sp	ecified Lungs
90 Day(s)	Rat Inhalation Not Spe	cified Lungs
90 Day(s)	Monkey Inhalation Not	Specified Lungs
9 Day(s) I	Rat Inhalation 15 ppm	LOAEL Respiratory system
Subchronic	Effects	Rats exposed to 15 ppm formaldehyde vapor for six hours/day for up to nine days showed an
Chronic Effe	ects/Carcinogenicity	acute cell degeneration, necrosis and inflammation in the nasal cavities. Inhalation exposure to formaldehyde for up to 90 days produced interstitial inflammation in the lungs of dogs, rats, monkeys, rabbits and guinea pigs. In rats, several inhalation studies have shown that formaldehyde induces squamous- cell carcinomas and necrosis of the nasal cavity. Formaldehyde also showed cocarcinogenic effects when inhaled, ingested, or applied to the skin of rodents.

Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

Gentamicin Embryo / Fetal Development	Rat	Intramuscular	75 mg/kg/day	LOAEL	Developmental toxicity
Formaldehyde Embryo / Fetal Development Embryo / Fetal Development Reproductive Effects Teratogenicity	Mouse Rat	Inhalation 40 pr Not considered	by Not Teratoge to be a reproductive has been tested by i	nic, Matern hazard.	nternal toxicity al Toxicity oral, and dermal routes and has not been shown

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

Formaldehyde

 In Vitro Bacterial Mutagenicity (Ames)
 Bacteria
 Positive

 In Vitro Chromosome Aberration
 Rodent
 Positive

 In Vitro Sister Chromatid Exchange
 Rodent
 Positive

 In Vivo Chromosome Aberration
 Not specified
 Positive

 Mutagenicity
 Formaldehyde has been reported to be active in many short-term tests, both in vitro and in vivo.

Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Formaldehyde

2 Year(s) Rat Inhalation 6 ppm LOAEL Tumors 2 Year(s) Mouse Inhalation 15 ppm LOAEL Tumors

Carcinogen Status: Contains formaldehyde: potential cancer hazard. See below

Formaldehyde

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IARC:	Group 1
NTP:	Reasonably Anticipated To Be A Carcinogen
OSHA:	Present

12. ECOLOGICAL INFORMATION	ON
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Environmental Overview: The environmental characteristics of this material have not been fully evaluated. Releases to the environment should be avoided.

13. DISPOSAL CONSIDERATIONS

Disposal Procedures:

Observe all local and national regulations when disposing of this material. This product contains trace quantities of mercury and may qualify as a RCRA Hazardous Waste. Status should be confirmed using the EPA Toxicity Characteristic Leaching Procedure (TCLP).

Formaldehyde

RCRA - U Series Wastes

waste number U122

14. TRANSPORT INFORMATION

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

15. REGULATORY INFOR	MATION
EU Symbol: EU Indication of danger:	Xi Irritant
EU Risk Phrases:	R43 - May cause sensitization by skin contact.
EU Safety Phrases:	S24 - Avoid contact with skin. S37 - Wear suitable gloves.

OSHA Label: WARNING Contains formaldehyde: potential cancer hazard. May cause sensitization of the skin and respiratory system. May cause eye, skin and respiratory tract irritation.

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Canada - WHMIS: Classifications

WHMIS hazard class: Class D, Division 2, Subdivision A



California Proposition 65Aminoglycosides- developmental PresentAustralia (AICS):PresentStandard for the Uniform Scheduling for Drugs and Poisons:215-765-8Formaldehyde= 0.1 % de minimis concentrationCERCLA/SARA 313 Emission reporting and their Reportable Quantities:= 100 Ib final RQCERCLA/SARA - Section 302 Extremely Hazardous CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs= 100 Ib EPCRA RQCalifornia Proposition 65carcinogen, initial date 1/1/88 (gas)California Proposition 65carcinogen, initial date 1/1/88 (gas)OSHA - Specifically Regulated Chemicals= 0.5 ppm Action Level = 0.75 ppm TWA = 2 ppm STEL Irritant and potential cancer hazard - see 29 CFR 1910.1048Inventory - United States TSCA - Sect. 8(b)Present >Schedule 6Werthiolate (as mercury)CERCLA/SARA 313 Emission reporting CERCLA/SARA 313 Emission reporting for Drugs and Poisons:= 1.0 % Supplier notification limit Australia (AICS):Merthiolate (as mercury)CERCLA/SARA 313 Emission reporting california Proposition 65 Developmental Inventory - United States TSCA - Sect. 8(b)Present Present 200-001-8Merthiolate (as mercury)CERCLA/SARA 313 Emission reporting california Proposition 65 Developmental Inventory - United States TSCA - Sect. 8(b)Present Present 200-001-8Mastralia (AICS):Present Present 200-001-8Present 200-001-8Merthiolate (as mercury)Present EU EINECS List201-04CERCLA/SARA 313 Emission reporting Inventory - United States TSCA - Sect. 8(b)Present Present 2	Gentamicin	
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16. OTHER INFORMATION

Material Name: Bovine Rhinotracheitis-Virus Diarrhea-Parainfluenza3 Vaccine, Modified Live Virus, Campylobacter Fetus-Leptospira Canicola-Grippotyphosa-Hardjo-Icterohaemorrhagiae-Pomona Bacterin Revision date: 04-Dec-2006

Version: 1.5

Reasons for Revision:	Updated Section 3 - Hazard Identification. Updated Section 5 - Fire Fighting Measures. Updated Section 6 - Accidental Release Measures. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 9 - Physical and Chemical Properties. Updated Section 11 - Toxicology Information. Updated Section 15 - Regulatory Information.
Prepared by:	Toxicology and Hazard Communication Pfizer Global Environment, Health, and Safety

Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate. While Pfizer provides this information in good faith, it does not expressly or impliedly warrant its accuracy.

End of Safety Data Sheet