



MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF PRODUCT AND COMPANY

Pfizer Inc	Emergency telephone	1-866-531-8896
Pfizer Animal Health	Hours of operation	24 Hours
235 East 42nd Street	Telephone	1-800-366-5288
New York, NY 10017		

Trade names	BoviShield™ FP 4+L5
Product name	Bovine Rhinotracheitis-Virus Diarrhea-Parainfluenza3-Respiratory Syncytial Virus Vaccine (Modified Live Virus), <i>Leptospira Canicola-Grippotyphosa-Hardjo-Icterohaemorrhagiae-Pomona</i> Bacterin
Therapeutic use	Veterinary Vaccine
Description	Freeze-dried preparation plus liquid bacterin

SECTION 2 - COMPOSITION

<u>Ingredient</u>	<u>CAS Number</u>	<u>Amount</u>
Bovine Parainfluenza3	Not assigned	Proprietary
Bovine Respiratory Syncytial Virus	Not assigned	Proprietary
Bovine Rhinotracheitis	Not assigned	Proprietary
Bovine Virus Diarrhea	Not assigned	Proprietary
<i>Leptospira canicola</i>	Not assigned	Proprietary
<i>Leptospira grippotyphosa</i>	Not assigned	Proprietary
<i>Leptospira hardjo</i>	Not assigned	Proprietary
<i>Leptospira icterohaemorrhagiae</i>	Not assigned	Proprietary
<i>Leptospira pomona</i>	Not assigned	Proprietary
Merthiolate (as mercury)*	54-64-8	Trace
Gentamicin*	1403-66-3	Trace
Aluminum hydroxide	21645-51-2	Proprietary
Water, purified	7732-18-5	>90%

*Hazardous

Note: Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety. Whether or not they are specifically referred to elsewhere in this document is dependent upon the potency and concentration in the product.

SECTION 3 - HAZARDS IDENTIFICATION

Signal word	Not applicable
Statements of hazard	Not applicable

SECTION 3 - HAZARDS IDENTIFICATION ... continued

Eye effects	None known; however, direct contact with any foreign material may cause eye irritation.
Skin effects	None known
Inhalation effects	None known
Ingestion effects	None known
Other potential health effects	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.
Route of entry	Skin contact, inhalation, accidental injection
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.

SECTION 4 - FIRST AID MEASURES

Skin	Wash skin with soap and water. If irritation occurs or persists, get medical attention.
Eyes	Immediately flush eyes with water for at least 15 minutes. If irritation occurs or persists, get medical attention.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention immediately.
Ingestion	Get medical attention. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

General hazard	This product is a nonflammable aqueous solution. This material is not expected to support combustion.
Fire fighting instructions	Dike and collect water used to fight fire.
Extinguishing media	As for primary cause of fire.
Flash point	Non-flammable
Hazardous combustion products	Not known

SECTION 6 - ACCIDENTAL RELEASE MEASURES

General	Review Sections 3, 8 and 12 before proceeding with clean up.
Small spill	Contain the source of the spill or leak. Use non-combustible absorbent material to wipe up spill and place in a sealed container for disposal. Clean spill area thoroughly. Prevent discharge to drains.
Large spill	Use appropriate containment to avoid environmental contamination. Dike, pump, or use non-combustible material to absorb spill; then place in a labeled container for disposal. Close container and move it to a secure holding area. Prevent runoff from entering drains, sewers, or streams.

SECTION 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.
Temperature range for storage	2-7°C

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits			
<u>Compound</u>	<u>Issuer</u>	<u>Type</u>	<u>OEL</u>
Merthiolate (as mercury)	OSHA	TWA-8 Hr	0.01 mg/m ³ (skin)
	ACGIH	TWA-8 Hr	0.1 mg/m ³ (skin)
Exposure information	See exposure limits for component (s) listed above.		
Ventilation	General room ventilation is adequate unless the process generates dust, mist or fumes.		
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.		
Eye protection	Safety glasses or goggles are recommended if eye contact is possible.		
Skin protection	Wear protective clothing when working with large quantities. Wash hands and arms thoroughly after handling this material.		
Hand protection	Wear impervious gloves if skin contact is possible.		

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical form	Freeze-dried preparation plus liquid bacterin
Color	No data available
Molecular weight	Mixture
Molecular formula	Mixture
pH	7.0 +/- 1.5 standard pH units
Boiling point	>100°C
Melting point	Not applicable
Density	No data available
Vapor pressure	Expected to be negligible
Water solubility	Components are soluble in water
Solvent solubility	No data available
Specific gravity	1.0 +/-0.2

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	This mixture is stable
Conditions to avoid	Store at 2-7°C. Prolonged exposure to higher temperatures may adversely affect potency. Do not freeze.
Incompatibilities	This material can be denatured or inactivated by a variety of organic solvents, salts or heavy metals.
Hazardous decomposition products	None expected under normal conditions.
Hazardous polymerization	Will not occur
Explosive properties	This material is non flammable.

SECTION 11 - TOXICOLOGY INFORMATION

Toxicology summary	The antigens included in this product are non-infectious. All have been prepared from killed or inactivated preparations of microorganisms.
Acute toxicity	
Eye	No data available
Skin	No data available

SECTION 11 - TOXICOLOGY INFORMATION ... continued

Inhalation	No data available
Ingestion	No data available
Sensitization	This product contains merthiolate which is considered to be a skin sensitizer.
Subchronic effects	No data available
Chronic effects/ carcinogenicity	No data available
Carcinogen status	None of the components of this formulation is listed as a carcinogen by IARC, NTP or OSHA.
Reproductive effects	Not considered to be a reproductive hazard.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental overview	The environmental characteristics of this material have not been fully evaluated. Releases to the environment should be avoided.
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SECTION 13 - DISPOSAL INFORMATION

Disposal procedure	Treatment, storage, transportation and disposal must be in accordance with applicable national and local regulations. 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).
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SECTION 14 - TRANSPORTATION INFORMATION

General shipping instructions	Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.
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SECTION 15 - REGULATORY INFORMATION

EU Classification	Not classified
California Proposition 65	Mercury (as Merthiolate); Aminoglycosides (Gentamicin)
Canadian WHMIS	This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16 - OTHER

Disclaimer

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.