



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	CattleMaster® 4+VL5
Product name	Bovine Rhinotracheitis-Virus Diarrhea-Parainfluenza ₃ -Respiratory Syncytial Virus Vaccine, Modified Live & Killed Virus- <i>Campylobacter fetus</i> - <i>Leptospira Canicola</i> - <i>Grippotyphosa</i> - <i>Hardjo</i> - <i>Ichterohaemorrhagiae</i> - <i>Pomona</i> Bacterin
Therapeutic use	Veterinary Vaccine
Description	Freeze-dried preparation plus a liquid adjuvanted preparation

SECTION 2 - COMPOSITION

<u>Ingredient</u>	<u>CAS Number</u>	<u>Amount</u>
Bovine Parainfluenza ₃	Not assigned	Trade secret
Bovine Respiratory Syncytial Virus	Not assigned	Trade secret
Bovine Rhinotracheitis	Not assigned	Trade secret
Bovine Virus Diarrhea	Not assigned	Trade secret
<i>Leptospira canicola</i>	Not assigned	Trade secret
<i>Campylobacter fetus</i>	Not assigned	Trade secret
<i>Leptospira grippotyphosa</i>	Not assigned	Trade secret
<i>Leptospira hardjo</i>	Not assigned	Trade secret
<i>Leptospira icterohaemorrhagiae</i>	Not assigned	Trade secret
<i>Leptospira pomona</i>	Not assigned	Trade secret
Aluminum hydroxide	21645-51-2	Trade secret
Gentamicin*	1403-66-3	Trace
Formaldehyde*	50-00-0	0.1-1.0%
Merthiolate (as mercury)*	54-64-8	Trace

*Hazardous

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

SECTION 3 - HAZARDS IDENTIFICATION

Signal word **WARNING!**

SECTION 3 - HAZARDS IDENTIFICATION ... continued

Statements of hazard	CONTAINS FORMALDEHYDE: POTENTIAL CANCER HAZARD MAY CAUSE SENSITIZATION OF THE SKIN AND RESPIRATORY SYSTEM MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION
Eye effects	May cause eye irritation.
Skin effects	May cause skin irritation. May cause allergic skin reaction.
Inhalation effects	May cause nose, throat and lung irritation. Repeated or prolonged exposure may cause health effects described in "Statements of hazard", above. An Occupational Exposure Limit has been established for one or more of the ingredients (see Section 8).
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	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 material is not expected to support combustion.
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SECTION 5 - FIRE FIGHTING MEASURES ... continued

Fire fighting instructions	Treat primary cause of 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. Wipe up with a damp cloth and place in container for disposal. Clean spill area thoroughly. Prevent discharge to drains.
Large spill	Use appropriate containment to avoid environmental contamination. Spills should be handled by vacuuming or wet mopping. Transfer all waste to a labeled container and move it to a secure holding area. Close container and move it to a secure holding area. Prevent discharge to drains.

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 (35 - 45°F)

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits			
<u>Compound</u>	<u>Issuer</u>	<u>Type</u>	<u>OEL</u>
Formaldehyde	ACGIH	STEL-C	0.30 ppm
	OSHA	TWA-8 Hr	0.75 ppm
Merthiolate (as mercury)	OSHA	STEL	2 ppm
	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	Engineering controls should be used as the primary means to control exposures. Exposure monitoring may be necessary to determine requirements.		

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION ... continued

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
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	No data available
Water solubility	Components are soluble in water
Solvent solubility	No data available
Specific gravity	1.0 +/-0.2

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Stable
Conditions to avoid	Avoid prolonged exposure to higher temperatures and/or direct sunlight. Do not freeze.
Incompatibilities	None known
Hazardous decomposition products	None known
Hazardous polymerization	Will not occur

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. The primary hazards are due to the formaldehyde content.			
Acute toxicity				
<u>Compound</u>	<u>Type</u>	<u>Route</u>	<u>Species</u>	<u>Result</u>
Formaldehyde	LD ₅₀	Oral	Rat	800 mg/kg
	Irritation	Ocular	Rabbit	Severe
	Irritation	Dermal	Rabbit	Mod-Severe
Eye	No data available			
Skin	No data available			
Inhalation	Not determined for this material. However, irritation might occur based on effects of individual components.			
Ingestion	No data available			
Mutagenicity	Formaldehyde has been reported to be active in many short-term tests, both <i>in vitro</i> and <i>in vivo</i> .			
Sensitization	This product contains formaldehyde and merthiolate which are considered to be skin sensitizers.			
Subchronic effects	Rats exposed to 15 ppm formaldehyde vapor for six hours/day for up to nine days showed an 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.			
Chronic effects/ carcinogenicity	Formaldehyde was tested for carcinogenicity in rats and mice at inhalation doses of 2, 5.6 or 14.3 ppm for 24 months. Significant increases in the incidence of squamous-cell carcinomas of the nasal cavity were induced in rats but not in mice. Levels of formaldehyde that caused nasal tumors also caused acute degeneration, necrosis, inflammation and increased cell replication in the nasal mucosa of rats and mice following inhalation exposure.			
Carcinogen status	Contains formaldehyde: potential cancer hazard.			
OSHA carcinogen	Yes			
NTP carcinogen	B (Reasonably anticipated to be a human carcinogen)			
IARC carcinogen	2A (Probably carcinogenic to humans)			
Reproductive effects	Not considered to be a reproductive hazard.			
Teratogenicity	Formaldehyde has been tested by inhalation, oral, and dermal routes and has not been shown to be teratogenic in animals.			

SECTION 12 - ECOLOGICAL INFORMATION

Environmental overview The environmental characteristics of this material have not been fully evaluated. This product contains trace quantities of mercury, releases to the environment should be avoided.

SECTION 13 - DISPOSAL INFORMATION

Disposal procedure Incineration is the recommended method of disposal for this material. 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).

SECTION 14 - TRANSPORTATION INFORMATION

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

SECTION 15 - REGULATORY INFORMATION

EU Classification Irritant

EU Labelling Xi

EU Label Pictogram(s)



Risk phrases R43 - May cause sensitization by skin contact.

Safety phrases S24 - Avoid contact with skin.
S37 - Wear suitable gloves.

California Proposition 65 Mercury (as Merthiolate); Aminoglycosides

Canadian WHMIS Class D, Division 2, Subdivision A

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.**