



## MATERIAL SAFETY DATA SHEET

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### SECTION 1 - IDENTIFICATION OF PRODUCT AND COMPANY

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

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<b>Trade names</b>	<b>Bronchicine™ CAe</b>
<b>Product name</b>	<b>Bronchicine™ - <i>Bordetella Bronchiseptica</i> bacterin Cellular Antigen Extract</b>
<b>Therapeutic use</b>	Veterinary Vaccine
<b>Description</b>	Liquid solution

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### SECTION 2 - COMPOSITION

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<u>Ingredient</u>	<u>CAS Number</u>	<u>Amount</u>
<i>Bordetella bronchiseptica</i>	68583-00-6	Trade secret
Merthiolate (as mercury)*	54-64-8	Trade secret

\*Hazardous

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

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### SECTION 3 - HAZARDS IDENTIFICATION

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<b>Signal word</b>	Not applicable
<b>Statements of hazard</b>	Not applicable
<b>Eye effects</b>	None known; however, direct contact with any foreign material may cause eye irritation.
<b>Skin effects</b>	None known
<b>Inhalation effects</b>	An Occupational Exposure Limit has been established for one or more of the ingredients (see Section 8).
<b>Ingestion effects</b>	None known
<b>Other potential health effects</b>	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.
<b>Route of entry</b>	Skin contact, inhalation, accidental injection

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**SECTION 3 - HAZARDS IDENTIFICATION** ... continued

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**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.

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**SECTION 4 - FIRST AID MEASURES**

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

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**SECTION 5 - FIRE FIGHTING MEASURES**

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

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**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

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<b>General</b>	Review Sections 3, 8 and 12 before proceeding with clean up.
<b>Small spill</b>	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.
<b>Large spill</b>	Collect spill with a non-combustible absorbent material. Transfer all waste to a labeled container and move it to a secure holding area. Prevent discharge to drains.

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## SECTION 7 - HANDLING AND STORAGE

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<b>General handling</b>	Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid breathing dust, vapor or mist. Use appropriate personal protective equipment.
<b>Storage conditions</b>	Store under refrigeration in closed container.
<b>Temperature range for storage</b>	2-7°C (35-45°F)

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## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

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<b>Exposure limits</b>			
<u>Compound</u>	<u>Issuer</u>	<u>Type</u>	<u>OEL</u>
Merthiolate (as mercury)	OSHA	TWA-8 Hr	0.01 mg/m <sup>3</sup> (skin)
	ACGIH	TWA-8 Hr	0.1 mg/m <sup>3</sup> (skin)
<b>Exposure information</b>	See exposure limits for component (s) listed above.		
<b>Ventilation</b>	Engineering controls should be used as the primary means to control exposures. Exposure monitoring may be necessary to determine requirements.		
<b>Respiratory protection</b>	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.		
<b>Eye protection</b>	Safety glasses or goggles		
<b>Skin protection</b>	Wear protective clothing when working with large quantities.		
<b>Hand protection</b>	Wear impervious gloves if skin contact is possible.		

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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<b>Physical form</b>	Liquid Solution
<b>Color</b>	No data available
<b>Molecular weight</b>	Mixture
<b>Molecular formula</b>	Mixture
<b>pH</b>	7.0 +/- 1.5 standard pH units
<b>Boiling point</b>	>100°C
<b>Melting point</b>	Not applicable
<b>Density</b>	No data available
<b>Vapor pressure</b>	Expected to be negligible
<b>Water solubility</b>	Components are soluble in water

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES** ... continued

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<b>Solvent solubility</b>	No data available
<b>Specific gravity</b>	1.0 +/-0.2

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**SECTION 10 - STABILITY AND REACTIVITY**

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

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**SECTION 11 - TOXICOLOGY INFORMATION**

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<b>Toxicology summary</b>	The antigens included in this product are non-infectious. All have been prepared from killed or inactivated preparations of microorganisms.
<b>Acute toxicity</b>	
<b>Eye</b>	No data available
<b>Skin</b>	No data available
<b>Inhalation</b>	No data available
<b>Ingestion</b>	No data available
<b>Mutagenicity</b>	No data available
<b>Sensitization</b>	This product contains merthiolate which is considered to be a skin sensitizer.
<b>Subchronic effects</b>	No data available
<b>Chronic effects/     carcinogenicity</b>	No data available
<b>Carcinogen status</b>	None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.
<b>Reproductive effects</b>	Not considered to be a reproductive hazard.

