



## MATERIAL SAFETY DATA SHEET

### SECTION 1 - IDENTIFICATION OF PRODUCT AND COMPANY

<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>		

<b>Trade names</b>	<b>FluSure/ER BAC<sup>®</sup> PLUS</b>
<b>Product name</b>	Swine Influenza Vaccine, H1N1 and H3N2, Killed Virus- <i>Erysipelothrix Rhusiopathiae</i> Bacterin
<b>Description</b>	Veterinary vaccine

### SECTION 2 - COMPOSITION

<u>Ingredient</u>	<u>CAS Number</u>	<u>Amount</u>
Aluminum hydroxide gel	21645-51-2	Trade secret
Amphigen base	Not assigned	Trade secret
<i>Erysipelothrix rhusiopathiae</i>	Not assigned	Trade secret
Formaldehyde*	50-00-0	0.1 - 1.0%
Gentamicin*	1403-66-3	Trade secret
Merthiolate (as mercury)*	54-64-8	Trace
Swine Influenza Virus A, strain H1N1	Not assigned	Trade secret
Swine Influenza Virus A, strain H3N2	Not assigned	Trade secret
Water, purified	7732-18-5	90%

\*Hazardous

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

### SECTION 3 - HAZARDS IDENTIFICATION

<b>Signal word</b>	<b>WARNING!</b>
<b>Statements of hazard</b>	<b>CONTAINS FORMALDEHYDE: POTENTIAL CANCER HAZARD</b> <b>MAY CAUSE SENSITIZATION OF THE SKIN AND RESPIRATORY SYSTEM</b> <b>MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION</b>
<b>Eye effects</b>	May cause eye irritation.
<b>Skin effects</b>	May cause skin irritation. May cause allergic reaction.

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

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<b>Inhalation effects</b>	An Occupational Exposure Limit has been established for one or more of the ingredients (see Section 8). See 'Statements of hazard' and/or 'Other potential health effects' in this section.
<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
<b>NOTE:</b>	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 will not 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>	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.
<b>Large spill</b>	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 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 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

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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>
Formaldehyde	ACGIH	STEL-C	0.30 ppm
	OSHA	TWA-8 Hr	0.75 ppm
	OSHA	STEL	2 ppm
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. Wash hands and arms thoroughly after handling this material.		
<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>	No data available
<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>	No data available
<b>Water solubility</b>	No data available
<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 known
<b>Hazardous polymerization</b>	Will not occur

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## SECTION 11 - TOXICOLOGY INFORMATION

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**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 <sub>50</sub>	Oral	Rat	800 mg/kg
	Irritation	Ocular	Rabbit	Severe
	Irritation	Dermal	Rabbit	Mod-Severe

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**SECTION 11 - TOXICOLOGY INFORMATION** ... continued

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<b>Eye</b>	See Acute toxicity table.
<b>Skin</b>	See Acute toxicity table.
<b>Inhalation</b>	Not determined for this mixture. However, irritation may occur based on effects of individual components.
<b>Ingestion</b>	See Acute toxicity table.
<b>Mutagenicity</b>	Formaldehyde has been reported to be active in many short-term tests, both <i>in vitro</i> and <i>in vivo</i> .
<b>Sensitization</b>	This product contains formaldehyde and merthiolate which are considered to be skin sensitizers.
<b>Subchronic effects</b>	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.
<b>Chronic effects/ carcinogenicity</b>	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.
<b>Carcinogen status</b>	Contains formaldehyde: potential cancer hazard.
<b>OSHA carcinogen</b>	Yes
<b>NTP carcinogen</b>	B (Reasonably anticipated to be a human carcinogen)
<b>IARC carcinogen</b>	Group 1 - carcinogenic to humans
<b>Reproductive effects</b>	Not considered to be a reproductive hazard.
<b>Teratogenicity</b>	Formaldehyde has been tested by inhalation, oral, and dermal routes and has not been shown to be teratogenic in animals.

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**SECTION 12 - ECOLOGICAL INFORMATION**

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<b>Environmental overview</b>	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**

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<b>Disposal procedure</b>	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).
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**SECTION 14 - TRANSPORTATION INFORMATION**

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

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**SECTION 15 - REGULATORY INFORMATION**

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**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** Formaldehyde; Mercury (as Merthiolate); Aminoglycosides (Gentamicin)

**Canadian WHMIS** Class D, Division 2, Subdivision A

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**SECTION 16 - OTHER**

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**Disclaimer** **Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without a warranty of any kind, expressed or implied.**