SAFETY DATA SHEETS

This SDS packet was issued with item: 078038652

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

078038645



Revision date: 19-Jul-2012

Version: 1.0

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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 Contact E-Mail: pfizer-MSDS@pfizer.com

Pfizer Ltd Ramsgate Road Sandwich, Kent CT13 9NJ United Kingdom +00 44 (0)1304 616161 Emergency telephone number: International CHEMTREC (24 hours): +1-703-527-3887

Material Name: Encephalomyelitis-Rhinopneumonitis-Influenza Vaccine Eastern and Western, Killed Virus Tetanus Toxoid

Trade Name:	FLUVAC INNOVATOR 5
Chemical Family:	Not determined
Intended Use:	Veterinary Vaccine

2. HAZARDS IDENTIFICATION

Appearance:	Pink suspension
Statement of Hazard: Additional Hazard Information:	Contains formaldehyde: potential cancer hazard
Short Term:	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 Classification EU Indication of danger:	Not classified

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.

PZ01899

Note:

Material Name: Encephalomyelitis-Rhinopneumonitis-Influenza Vaccine Eastern and Western, Killed Virus Tetanus Toxoid

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Formaldehyde	50-00-0	200-001-8	C;R34 Carc. Cat.3;R40 R43 T;R23/24/25	<0.1
Polymyxin B	1404-26-8	215-768-4	Xn;R22 Xn;R42/43	<0.1
Thimerosal	54-64-8	200-210-4	N; R50/53 R33 T+; R26/27/28	<0.1

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	%
Clostridium tetani - Massachusetts (Cl. tetani)	Not assigned	Not Listed	Not Listed	*
EASTERN EQUINE ENCEPHALOMYELITIS	Not Assigned	Not Listed	Not Listed	*
Equine Influenza Virus, Kentucky 97 (EIV)	Not Assigned	Not Listed	Not Listed	*
Inactivated Equine Herpes virus type 1	Not Assigned	Not Listed	Not Listed	*
Inactivated Equine Herpes virus type 4	Not Assigned	Not Listed	Not Listed	* .
Neomycin Free Base	1404-04-2	215-766-3	Not Listed	*
Squalene	111-02-4	203-826-1	Not Listed	*
WESTERN EQUINE ENCEPHALOMYELITIS	Not Assigned	Not Listed	Not Listed	*
Phosphate Buffered Saline	Mixture	Not Listed	Not Listed	*
Polysorbate 80	9005-65-6	Not Listed	Not Listed	*
Poloxalene	9003-11-6	Not Listed	Not Listed	*

Additional Information:

* Proprietary

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

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES	
Eye Contact:	Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention immediately.
Skin Contact:	Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek medical attention.
Ingestion:	Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately.
Inhalation:	Remove to fresh air and keep patient at rest. Seek medical attention immediately.
Symptoms and Effects of Exposure:	For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information.

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5. FIRE FIGHTING MEASURES **Extinguishing Media:** Use carbon dioxide, dry chemical, or water spray. Formation of toxic gases is possible during heating or fire. Hazardous Combustion Products: During all fire fighting activities, wear appropriate protective equipment, including self-**Fire Fighting Procedures:** contained breathing apparatus. 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. Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill Measures for Cleaning / Collecting: area thoroughly. **Measures for Environmental** Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to Protections: avoid environmental release. Additional Consideration for Large Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel. Spills: 7. HANDLING AND STORAGE Minimize generating airborne mists and vapors. Avoid breathing vapor or mist. Avoid contact **General Handling:** with eyes, skin and clothing. When handling, use appropriate personal protective equipment

 General Handling:
 Minimize generating airborne mists and vapors. Avoid breatning vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

 Storage Conditions:
 Store as directed by product packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to available public information for specific member state Occupational Exposure Limits.

Formaldehyde	
ACGIH Ceiling Threshold Limit:	0.3 ppm
ACGIH - Sensitizer Designation	Sensitizer
Australia STEL	2 ppm 2.5 mg/m ³
Australia TWA	1 ppm 1.2 mg/m ³
Austria OEL - MAKs	0.5 ppm 0.6 mg/m ³
Bulgaria OEL - TWA	1.0 mg/m ³

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	ERSONAL PROTECTION
Czech Republic OEL - TWA	0.5 mg/m ³
Estonia OEL - TWA	0.5 ppm
	0.6 mg/m ³
Finland OEL - TWA	0.3 ppm 0.37 mg/m³
France OEL - TWA	0.5 ppm
Germany (DFG) - MAK	0.3 ppm
Germany (DFG) - MAR	0.37 mg/m ³ no irritation should occur during mixed exposure
Greece OEL - TWA	2 ppm
	2.5 mg/m ³
Hungary OEL - TWA	0.6 mg/m ³
Ireland OEL - TWAs	2 ppm
	2.5 mg/m ³
Japan - OELs - Ceilings	0.2 ppm
-	0.24 mg/m ³
Latvia OEL - TWA	0.5 mg/m ³
Lithuania OEL - TWA	0.5 ppm
	0.6 mg/m ³
Netherlands OEL - TWA	0.15 mg/m ³
OSHA - Final PELS - TWAs:	0.75 ppm
OSHA - Specifically Regulated	
	0.5 ppm
	0.75 ppm
Poland OEL - TWA	0.5 mg/m ³
Romania OEL - TWA	1 ppm 1 20 mg/m3
Slovakia OEL - TWA	1.20 mg/m ³
SIOVAKIA DEL - TVVA	0.3 ppm 0.37 mg/m³
Slovenia OEL - TWA	0.5 ppm
	0.62 mg/m ³
Sweden OEL - TWAs	0.5 ppm
	0.6 mg/m ³
myxin B	
Pfizer Occupational Exposure	OEB 2 - Sensitizer (control exposure to the range of 100ug/m ³ to < 1000ug/m ³ , provide
Band (OEB):	additional precautions to protect from skin contact)
ineering Controls:	Engineering controls should be used as the primary means to control exposures. General
. –	room ventilation is adequate unless the process generates dust, mist or fumes. Keep airbo
	contamination levels below the exposure limits listed above in this section.
ronmental Exposure Controls:	Refer to specific Member State legislation for requirements under Community environmenta
anal Dratastica Produce	legislation.
ional Protective Equipment:	Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).
	איטנפטויים פקעואוופוו (דרב).
1.0	have a dama along a second of the bar second data to the second second second second second second second second
Hands:	Impervious gloves are recommended if skin contact with drug product is possible and for bu
Fuce	processing operations. Wear safety classes or conducts if eve contact is possible
Eyes: Skin:	Wear safety glasses or goggles if eye contact is possible. Impervious protective clothing is recommended if skin contact with drug product is possible.
UNIB.	- importious proteotive orothing to recontinentied it anti-optitalit with unu product is possible.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory protection:

If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Molecular Formula: Suspension Mixture Color: Molecular Weight: Pink Mixture

Flash Point (Liquid) (°C): Polymerization:

Non-flammable Will not occur

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions of use.
Conditions to Avoid:	Fine particles (such as dust and mists) may fuel fires/explosions.
Incompatible Materials:	This material can be denatured or inactivated by a variety of organic solvents, salts or heavy metals.

11. TOXICOLOGICAL INFORMATION

General Information:

The antigens included in this product are non-infectious. All have been prepared from killed or inactivated preparations of microorganisms. The information included in this section describes the potential hazards of the individual ingredients.

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

Formaldehyde Rat Oral LD50 800 mg/kg

Thimerosal

Rat Oral LD50 75 mg/kg Mouse Oral LD50 91 mg/kg Rat Subcutaneous LD50 98 mg/kg

Polymyxin B

Mouse Oral LD50 790 mg/kg Mouse Para-periosteal LD50 3980 ug/kg Rat Subcutaneous LD50 50 mg/kg

Polysorbate 80 Rat Oral LD50 25 g/kg

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

Formaldehyde

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11. TOXICOLOGICAL INFORMATION

Eye Irritation Rabbit Severe Skin Irritation Rabbit Moderate Severe

Thimerosal

Eye Irritation Rabbit Mild 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 Specified Lungs 90 Day(s) Rat Inhalation Not Specified Lungs Inhalation Not Specified 90 Day(s) Monkey Lungs 9 Day(s) Rat Inhalation 15 ppm LOAEL Respiratory system

Reproduction & Development Toxicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Formaldehyde

Embryo / Fetal Development Mouse Oral 185 mg/kg/day Not teratogenic, Maternal toxicity Embryo / Fetal Development Rat Inhalation 40 ppm Not Teratogenic, Maternal Toxicity

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

Polymyxin B

In Vitro Negative In Vivo Negative

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:

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

Formaldehyde

IARC:	Group 1 (Carcinogenic to Humans)
NTP:	Known Human Carcinogen
OSHA:	Listed

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 12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

 Waste Treatment Methods:
 Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater. 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

Listed

14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

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

15. REGULATORY INFORMATION

EU Indication of danger: Not classified

OSHA Label: Contains formaldehyde: potential cancer hazard

Canada - WHMIS: Classifications

WHMIS hazard class: None required

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Material Name: Encephalomyelitis-Rhinopneumonitis-Influenza Vaccine Eastern and Western, Killed Virus Tetanus Toxoid

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15. REGULATORY INFORMATION

CERCLA/SARA 313 Emission reporting0.1 %CERCLA/SARA Hazardous Substances100 lband their Reportable Quantities:45.4 kgCERCLA/SARA - Section 302 Extremely Hazardous500 lbTPQs00 lbCERCLA/SARA - Section 302 Extremely Hazardous500 lbSubstances EPCRA RQs100 lbCalifornia Proposition 65carcinogen initial date 1/1/88OSHA - Specifically Regulated Chemicals2 ppm0.75 ppm0.75 ppmInventory - United States TSCA - Sect. 8(b)PresentAustralia (AICS):PresentStandard for the Uniform Scheduling for Drugs and Poisons:Schedule 6EU EINECS/ELINCS List200-001-8Neomycin Free Base Standard for the Uniform Scheduling for Drugs and Poisons:Schedule 4EU EINECS/ELINCS List215-768-3Polymyxin B EU EINECS/ELINCS List215-768-4Squalene Inventory - United States TSCA - Sect. 8(b) Australia (AICS):Present PresentPolymyxin B EU EINECS/ELINCS List203-826-1Thimerosal Inventory - United States TSCA - Sect. 8(b) Australia (AICS):Present PresentPolysorbate 80 Inventory - United States TSCA - Sect. 8(b)Present PresentPolysorbate 80 Inventory - United States TSCA - Sect. 8(b)Present PresentPolysorbate 80 Inventory - United States TSCA - Sect. 8(b)Present PresentPolysorbate 80 Inventory - United States TSCA - Sect. 8(b)Present PresentPolosalenePresent PresentPresentPolosalenePresent <br< th=""><th>Formaldehyde</th><th></th></br<>	Formaldehyde	
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Material Name: Encephalomyelitis-Rhinopneumonitis-Influenza Vaccine Eastern and Western, Killed Virus Tetanus Toxoid

Revision date: 19-Jul-2012

15. REGULATORY INFORMATION Inventory - United States TSCA - Sect. 8(b) Australia (AICS):

Present Present

16. OTHER INFORMATION

Text of R phrases mentioned in Section 3

R33 - Danger of cumulative effects.

R34 - Causes burns.

R40 - Limited evidence of a carcinogenic effect

R22 - Harmful if swallowed.

R26/27/28 - Very toxic by inhalation, in contact with skin and if swallowed.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.

R42/43 - May cause sensitization by inhalation and skin contact.

Data Sources:

Pfizer proprietary drug development information. Publicly available toxicity information. Safety data sheets for individual ingredients.

Prepared by:

Product Stewardship Hazard Communication Pfizer Global Environment, Health, and Safety Operations

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End of Safety Data Sheet

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