This SDS packet was issued with item: 078575648

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078929130



MATERIAL SAFETY DATA SHEET

Product Id: West Nile Innovator + EW 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Code: RM1000196

Product Name: West Nile Innovator + EW

Common Name: West Nile Encephalitis Virus, Equine Encephalomyelitis Virus (Eastern and Western strains), Equine Influenza Virus (Prague 56 and Kentucky 97 strains), killed virus vaccine

Supplier: Fort Dodge Animal Health 800 5th Street NW PO Box 518 Fort Dodge, IA 50501

> General Information No.: (515) 955-4600 Emergency Telephone No.: (515) 955-6033

Emergency Telephone Number: (800) 424-9300

General Telephone Number: (515) 955-4600

Prepared By: Environmental, Health + Safety

2. COMPOSITION/INFORMATION ON INGREDIENTS					
Components	Weight %	ACGIH TWA:	CAS-No.	Wyeth OEG:	Units for TWAs, STELs, ACGIH, OSHA:
Killed virus None	Unknown	None	NA	Not Established	mg/m3
Adjuvant	Trade secret	None	NA	Not Established	mg/m3
	<0.01	None	Various	Not Established	mg/m3

3. HAZARDS IDENTIFICATION

Inhalation:

Inhalation exposure is unlikely when product is used as directed in a well-ventilated space.

Skin Contact:

None known. If product contacts skin, wash thoroughly with soap and water.

Revision Date: 6/1/2007 Product Name: West Nile Innovator + EW

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	Seek medical attention if symptoms occur.
Ingestion:	Seek medical attention immediately. Provide physician with MSDS, package insert, and product container.
Eye Contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention. May cause eye irritation.

4. FIRST AID MEASURES

Eye Contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention. May cause eye irritation.
Skin Contact:	No known effect. After contact with skin, wash immediately with plenty of water.
Inhalation:	No specific data. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.
Ingestion:	If ingested, seek medical advice immediately and show the container or the label.
Aggravated Conditions:	None known.
Notes to Physician:	For self-inoculation, immediately wash injection site with soap and water. Bleeding, if present, from the puncture wound should be encouraged. Direct treatment at control of symptoms.

5. FIRE FIGHTING MEASURES		
Extinguishing Media and Fire Fighting Instructions:	Aqueous solutions are non-flammable. Use DRY chemicals, CO2, water spray or alcohol foam.	
Special Hazards:	None. Dispose of fire debris and contaminated fire fighting water in accordance with regulations.	
Personal Protective Equipment:	No special precautions or equipment.	
6. ACCIDENTAL RELEASE MEASURES		

Methods For Cleaning Up:	Absorb with an inert material and place in an appropriate waste disposal container.
Personal Precautions:	Put on appropriate personal protective equipment (see Section 8).
Environmental Precautions:	Dike spill area and do not allow product to reach sewage system and surface or ground water.

7. HANDLING AND STORAGE

Handling

Technical Measures/Precautions:	No special technical measures or package insert.	equired when p	roduct is used as directed on label
Safe Handling Advice:	No special precautions required	. Avoid contact	with eyes. After handling, always
		Revision Date: Product Name:	6/1/2007 West Nile Innovator + EW
	Page 2 of 6		

wash hands thoroughly with soap and water.

Storage

Technical Measures/Storage Conditions:	Keep only in original container. Keep at temperature not exceeding 7°C. Keep out of the reach of children.
Incompatible Products:	No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures:	No special measures required.	
Personal Protective Equipment		
Respiratory Protection:	A respirator is not needed under normal and intended conditions of product use.	
Hand Protection:	Latex gloves	
Skin and Body Protection:	Gloves, Latex. Wear overalls or long sleeved shirt and long trousers.	
Eye Protection:	Safety glasses with side-shields.	
Hygiene Measures:	Avoid contact with skin, eyes and clothing.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Reddish-white
Odor:	Odorless
pH:	6 - 8
Boiling Point/Range:	Not applicable
Melting Point/Range:	Not determined
Density:	Not determined
Vapor Density:	not determined
Physical State:	Opaque liquid
Vapor Pressure:	not determined
Viscosity	Not applicable
Partition Coefficient:	Not applicable
Solubility:	Easily soluble in cold water, hot water. methanol n-octanol Acetone Diethyl ether
Solubility in Other Solvents:	None known
Flash Point: Explosion limits	Not applicable
- upper	no data available
- lower	no data available
Autoignition Temperature:	Not applicable
Decomposition Temperature:	Not applicable
Dust Explosivity	Not applicable.

10. STABILITY AND REACTIVITY

Stability:

Stable.

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Conditions to Avoid:	This product is stable.
Materials to Avoid:	None
Polymerization:	None known

Hazardous Decomposition Products: None

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

LC50/inhalation/rat =	not determined	
Principle Routes of Exposure:	None	
Eye Contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention. May cause eye irritation.	
Skin Contact:	None known. If product contacts skin, wash thoroughly with soap and water. Seek medical attention if symptoms occur.	
Ingestion:	Seek medical attention immediately. Provide physician with MSDS, package insert, and product container.	
Inhalation:	No evidence of risk in humans.	
Chronic Toxicity:		
Target Organs	None	
Specific Effects:	Not determined	
Sensitization:	Not known to be a skin sensitizer.	
Carcinogenic Effects:	There are no known effects from chronic exposure to this product. No evidence of human carcinogenic effects.	
Mutagenic Effects:	Adverse health effects are considered unlikely when the product is administered according to label directions.	
Teratogenic Effects:	No evidence of risk in humans. No known human teratogenic effect.	
ReproductiveToxicity:	Not considered to be toxic for the reproductive system.	
Aggravated Conditions:	None known.	
A		

12. ECOLOGICAL INFORMATION

Environmental Fate:Not evaluated. No known significant effects or critical hazards.Environmental Hazards:None

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Ecotoxicity Effects:	This product has no known eco-toxicological effects.
Aquatic Toxicity:	Not determined.
Mobility:	No data available
Bioaccumulation:	Not determined
Environmental Precautions:	Dike spill area and do not allow product to reach sewage system and surface or ground water.

13. **DISPOSAL CONSIDERATIONS**

Waste/Unused Products:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Contaminated Packaging:

Not applicable

TRANSPORT INFORMATION 14.

DOT (Road/Rail Transport)

UN/ID Number:	Not controlled.
Proper Shipping Name:	Not controlled.
Hazard Class:	Not controlled.
Packing Group:	Not controlled.
DOT Reportable Quantity (Ibs):	Not controlled.
Marine Pollutant:	No
ICAO/IATA (Air Transport):	
UN/ID Number:	Not controlled.
Proper Shipping Name:	Not controlled.
Hazard Class:	Not controlled.
Packing Group:	Not controlled.
IMO/IMDG (Maritime Transport):	
UN/ID Number:	Not controlled.
Hazard Class:	Not controlled.
Packing Group:	Not controlled.
Marine Pollutant:	No

REGULATORY INFORMATION 15.

Other Regulations:

Not controlled

OTHER INFORMATION 16.

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Additional Advice:

Use this product only in accordance with the directions provided on the product label or the package insert.

The information provided in this MSDS is based on current knowledge. However, this does not constitute a warranty by the Company for that information. The product user is responsible for the appropriate and intended handling, use, and disposal of this product in accordance with label or package insert precautions and this information. All materials may present unknown hazards and should be used with caution.
*** End of Safety Data Sheet ***

Revision Date: 6/1/2007 Product Name: West Nile Innovator + EW

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Revision date: 28-Apr-2014

Version: 2.0

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Identifier

Material Name: West Nile Innovator + EW

Trade Name: V Synonyms: V Chemical Family: N

West Nile Innovator West Nile Encephalitis Virus, Equine Encephalomyelitis Virus (Eastern and Western strains), Equine Influenza Virus (Prague 56 and Kentucky 97 strains), killed virus vaccine Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against Intended Use: Veterinary Vaccine

Details of the Supplier of the Safety Data Sheet

Zoetis Inc. 100 Campus Drive, P.O. Box 651 Florham Park, New Jersey 07932 (USA) Rocky Mountain Poison Control Center Phone: 1-866-531-8896 Product Support/Technical Services Phone: 1-800-366-5288

Emergency telephone number: CHEMTREC (24 hours): 1-800-424-9300 Contact E-Mail: VMIPSrecords@zoetis.com Zoetis Belgium S.A. Mercuriusstraat 20 1930 Zaventem Belgium

Emergency telephone number: International CHEMTREC (24 hours): +1-703-527-3887

2. HAZARDS IDENTIFICATION

Appearance: Reddish-white liquid Classification of the Substance or Mixture GHS - Classification Not classified as hazardous

EU Classification:

EU Indication of danger: Not classified

Label Elements

Signal Word:Not ClassifiedHazard Statements:Not classified in accordance with international standards for workplace safety.

Other Hazards	
Short Term:	May cause eye irritation. 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.
Australian Hazard Classification (NOHSC):	Non-Hazardous Substance. Non-Dangerous Goods.
Note:	This document has been prepared in accordance with standards for workplace safety, which requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

ZT00284

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Formaldehyde	50-00-0	200-001-8	T; R23/24/25 C; R34 Carc.Cat.3; R40 R43	Acute Tox. 3 (H301) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Carc. 1A (H350) Acute Tox. 3 (H331)	##
Thimerosal	54-64-8	200-210-4	T+; R26/27/28; R33 N; R50/53	Acute Tox. 2 (H300) Acute Tox. 1 (H310) STOT RE 2 (H373) Acute Tox. 2 (H330) Acute Aquatic 1 (H400) Chronic Aquatic 1 (H410)	##
Amphotericin B	1397-89-3	215-742-2	Not Listed	Not Listed	##
Neomycin B	119-04-0	204-292-2	Xn;R22 Xn;R42/43 Repr.Cat.3;R63	Acute Tox. 4;H302 Resp. Sens. 1;H334 Skin Sens.1;H317 Repr.2;H361	##
Polymyxin B	1404-26-8	215-768-4	Xn;R22 Xn;R42/43	Acute Tox. 4 (H302) Skin Sens. 1 (H317) Resp Sens. 1 (H334)	##

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Equine Influenza Virus (Prague 56 strain)	Not assigned	Not Listed	Not Listed	Not Listed	*
Adjuvant	NA	Not Listed	Not Listed	Not Listed	*
EASTERN EQUINE ENCEPHALOMYELITIS	Not Assigned	Not Listed	Not Listed	Not Listed	*
WESTERN EQUINE ENCEPHALOMYELITIS	Not Assigned	Not Listed	Not Listed	Not Listed	*
Equine Influenza Virus, Kentucky 97 (EIV)	Not Assigned	Not Listed	Not Listed	Not Listed	*
West Nile Virus, killed	Not assigned	Not Listed	Not Listed	Not Listed	*

Material Name: West Nile Innovator + EW Revision date: 28-Apr-2014

Additional Information:

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

For the full text of the R phrases and CLP/GHS abbreviations mentioned in this Section, see Section 16

4. FIRST AID MEASURES Description of 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. Most Important Symptoms and Effects, Both Acute and Delayed For information on potential signs and symptoms of exposure, See Section 2 - Hazards Symptoms and Effects of Exposure: Identification and/or Section 11 - Toxicological Information. **Medical Conditions** None known Aggravated by Exposure: Indication of the Immediate Medical Attention and Special Treatment Needed Notes to Physician: None

5. FIRE-FIGHTING MEASURES

Extinguishing Media:

Extinguish fires with CO2, extinguishing powder, foam, or water.

Special Hazards Arising from the Substance or Mixture

Hazardous Combustion Formation of toxic gases is possible during heating or fire. Products:

Fire / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions.

Advice for Fire-Fighters

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

Environmental Precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

Methods and Material for Containment and Cleaning Up

Measures for Cleaning / Contain the source of the spill if it is safe to do so. Wipe up with a damp cloth and place in container for disposal. Clean contaminated surface thoroughly.

Additional Consideration for Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Prevent environmental releases. Use appropriate personal protective equipment. Avoid accidental injection.

Conditions for Safe Storage, Including any Incompatibilities Storage Conditions: Store at room temperatu

Store at room temperature in properly labeled containers. Keep away from heat, sparks and flames.

Specific end use(s):

No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

For

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

ACGIH Ceiling Threshold Limit:0.3 ppmACGIH - Sensitizer DesignationSensitizerAustralia STEL2 ppmAustralia TWA1 ppmAustralia TWA1.2 mg/m³Austria OEL - MAKs0.5 ppmBulgaria OEL - TWA0.5 mg/m³Czech Republic OEL - TWA0.5 mg/m³Estonia OEL - TWA0.5 ppmFinland OEL - TWA0.5 ppmGermany (DFG) - MAK0.37 mg/m³France OEL - TWA0.3 ppmGreece OEL - TWA0.5 ppmGreece OEL - TWA0.5 ppmJapan - OELs - Ceilings2.5 mg/m³Japan - OELs - Ceilings0.2 ppmLatvia OEL - TWA0.5 mg/m³Latvia OEL - TWA0.5 mg/m³Vietnamic OEL - TWA0.6 mg/m³Japan - OELs - Ceilings0.2 ppmVietnam OEL - TWA0.5 mg/m³String Marks0.5 mg/m³Japan - OELs - Ceilings0.2 ppmOSHA - Final PELS - TWAS0.5 mg/m³OSHA - Final PELS - TWAS0.5 mg/m³OSHA - Specifically Regulated Chemicals2 ppmOSHA - Specifically Regulated Chemic	rmaldehyde	
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OSHA - Final PELS - TWAs:0.75 ppmOSHA - Specifically Regulated Chemicals2 ppm0.5 ppm0.5 ppm	Vietnam OEL - TWAs	0.5 mg/m^3
OSHA - Specifically Regulated Chemicals 2 ppm 0.5 ppm	OSHA - Final PELS - TWAs:	•
0.5 ppm	OSHA - Specifically Regulated Chemicals	
••		
		0.75 ppm

Poland OEL - TWA	ONTROLS / PERSONAL PROTECTION 0.5 mg/m ³
Romania OEL - TWA	1 ppm 1.20 mg/m³
Slovakia OEL - TWA	0.3 ppm 0.37 mg/m ³
Slovenia OEL - TWA	0.5 ppm 0.62 mg/m ³
Sweden OEL - TWAs	0.3 ppm 0.37 mg/m³
Switzerland OEL -TWAs	0.3 ppm 0.37 mg/m ³
leomycin B	

Ne

Zoetis OEL TWA 8-hr

100µg/m³Sensitizer

The purpose of the Occupational Exposure Band (OEB) classification system is to separate substances into different Hazard categories when the available data are sufficient to do so, but inadequate to establish an Occupational Exposure Limit (OEL). The OEB given is based upon an analysis of all currently available data; as such, this value may be subject to revision when new information becomes available.

Polymyxin B	
Zoetis OEB	OEB 2 - Sensitizer (control exposure to the range of 100ug/m ³ to < 1000ug/m ³ , provide additional precautions to protect from skin contact)
Exposure Controls	
Engineering Controls:	Engineering controls should be used as the primary means to control exposures. Use process containment, local exhaust ventilation, or other engineering controls to maintain airborne levels within the OEB range.
Personal Protective Equipment:	Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).
Hands:	Wear impervious gloves if skin contact is possible.
Eyes:	Safety glasses or goggles
Skin:	Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.
Respiratory protection:	If airborne exposures are within or exceed the Occupational Exposure Band (OEB) range, wear an appropriate respirator with a protection factor sufficient to control exposures to the bottom of the OEB range.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Odor: Molecular Formula:	Liquid Odorless Mixture	Color: Odor Threshold: Molecular Weight:	Reddish No data available. Mixture
Solvent Solubility: Water Solubility: pH:	No data available Soluble 6-8		
Melting/Freezing Point (°C):	No data available		
Boiling Point (°C):	No data available.		
Partition Coefficient: (Method, pH, E No data available	Endpoint, Value)		
Decomposition Temperature (°C):	No data available.		

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Evaporation Rate (Gram/s):No data availableVapor Pressure (kPa):No data availableVapor Density (g/ml):No data availableRelative Density:No data availableViscosity:No data available

Flammablity:

Autoignition Temperature (Solid) (°C): Flammability (Solids): Flash Point (Liquid) (°C): Upper Explosive Limits (Liquid) (% by Vol.): Lower Explosive Limits (Liquid) (% by Vol.): No data available No data available No data available No data available No data available

10. STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions Oxidizing Properties: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: No data available Stable under normal conditions of use.

No data available Fine particles (such as dust and mists) may fuel fires/explosions. As a precautionary measure, keep away from strong oxidizers No data available

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects General Information:

Toxicological properties of the formulation have not been fully investigated. 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)

Thimerosal

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

Neomycin B

Rat Oral LD 50 1250 mg/kg Mouse IV LD50 24mg/kg

Formaldehyde

Rat Oral LD50 800 mg/kg

Polymyxin B

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

11. TOXICOLOGICAL INFORMATION

Amphotericin B

RatOralLD50> 5000 mg/kgRatPara-periostealLD501.6mg/kgRatIntraperitonealLD50> 5000mg/kgMouseIntravenousLD501.2mg/kgMouseIntraperitonealLD5027.7mg/kg

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

Thimerosal

Eye Irritation Rabbit Mild

Formaldehyde

Eye Irritation Rabbit Severe Skin Irritation Rabbit Moderate Severe Skin Sensitization Positive

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Formaldehyde

90 Day(s) Inhalation Not Specified Dog Lungs Inhalation Not Specified 90 Day(s) Rat Lungs 90 Day(s) Inhalation Not Specified Monkey Lungs 90 Day(s) Rat Inhalation 15 ppm LOAEL Respiratory system

Amphotericin B

30 Day(s) Intravenous 37 mg/kg/day LOAEL Kidney Dog 2 Month(s) Kidney Intravenous 16.5 mg/kg/day LOAEL Dog Male reproductive system, Female reproductive system 13 Week(s) Oral 2 mg/kg/day NOAEL Rat 13 Week(s) Dog Oral 1.6 mg/kg/day NOAEL Male reproductive system, Female reproductive 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

Amphotericin B

Embryo / Fetal Development Rat Oral 7.5 mg/kg/day NOAEL Not teratogenic, Fetotoxicity Embryo / Fetal Development Rabbit Oral 10 mg/kg/day NOAEL Not Teratogenic, Fetotoxicity

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

11. TOXICOLOGICAL INFORMATION

In Vitro	Negative
In Vivo	Negative

Amphotericin B

Bacterial Mutagenicity (Ames)Salmonella , E. coliNegativeIn Vivo MicronucleusMouseNegativeIn Vitro Chromosome AberrationChinese Hamster Ovary (CHO) cellsNegative

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

12. ECOLOGICAL INFORMATION

Environmental Overview:	Environmental properties have not been thoroughly investigated. This product contains trace quantities of mercury, releases to the environment should be avoided.
Toxicity:	No data available
Persistence and Degradability:	No data available
Bio-accumulative Potential:	No data available
Mobility in Soil:	No data available

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).

Material Name: West Nile Innovator + EW Revision date: 28-Apr-2014

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

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada - WHMIS: Classifications WHMIS hazard class: None required

Equine Influenza Virus (Prague 56 strain)	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
EU EINECS/ELINCS List	Not Listed
Formaldehyde	
CERCLA/SARA 313 Emission reporting	0.1 %
CERCLA/SARA Hazardous Substances	100 lb
and their Reportable Quantities:	45.4 kg
CERCLA/SARA - Section 302 Extremely Hazardou TPOs	us 500 lb
CERCLA/SARA - Section 302 Extremely Hazardou Substances EPCRA RQs	us 100 lb
California Proposition 65	carcinogen initial date 1/1/88 gas
OSHA - Specifically Regulated Chemicals	2 ppm
	0.5 ppm
	0.75 ppm
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
Standard for the Uniform Scheduling	Schedule 2
for Drugs and Poisons:	Schedule 6
EU EINECS/ELINCS List	200-001-8
Thimerosal	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	developmental toxicity initial date 7/1/90

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	FORY INFORMATION
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
REACH - Annex XVII - Restrictions on Certain Dangerous Substances:	Use restricted. See item 18.
EU EINECS/ELINCS List	200-210-4
Adjuvant	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
EU EINECS/ELINCS List	Not Listed
Amphotericin B	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Australia (AICS):	Present
Standard for the Uniform Scheduling for Drugs and Poisons:	Schedule 4
EU EINECS/ELINCS List	215-742-2
Neomycin B	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Australia (AICS):	Present
Standard for the Uniform Scheduling for Drugs and Poisons:	Schedule 4
EU EINECS/ELINCS List	204-292-2
EASTERN EQUINE ENCEPHALOMYELITIS	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
EU EINECS/ELINCS List	Not Listed
WESTERN EQUINE ENCEPHALOMYELITIS	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
EU EINECS/ELINCS List	Not Listed
Equine Influenza Virus, Kentucky 97 (EIV)	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65 EU EINECS/ELINCS List	Not Listed Not Listed
West Nile Virus, killed	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
EU EINECS/ELINCS List	Not Listed
Polymyxin B	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
EU EINECS/ELINCS List	215-768-4

16. OTHER INFORMATION

Text of R phrases and GHS Classification abbreviations mentioned in Section 3

H302 - Harmful if swallowed H317 - May cause an allergic skin reaction H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled H301 - Toxic if swallowed H314 - Causes severe skin burns and eye damage H350 - May cause cancer H331 - Toxic if inhaled H300 - Fatal if swallowed H310 - Fatal in contact with skin H373 - May cause damage to organs through prolonged or repeated exposure H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects H361 - Suspected of damaging fertility or the unborn child H330 - Fatal if inhaled Xn - Harmful T - Toxic C - Corrosive Carcinogenic: Category 3 T+ - Very toxic N - Dangerous for the environment Toxic to Reproduction: Category 3 R22 - Harmful if swallowed. R34 - Causes burns. R40 - Limited evidence of a carcinogenic effect R33 - Danger of cumulative effects. R63 - Possible risk of harm to the unborn child. R42/43 - May cause sensitization by inhalation and skin contact. R23/24/25 - Toxic by inhalation, in contact with skin and 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. The data contained in this MSDS may have been gathered from confidential internal sources, Data Sources: raw material suppliers, or from the published literature. Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking. **Reasons for Revision:** Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on Ingredients. Updated Section 4 - First Aid Measures. Updated Section 6 - Accidental Release Measures. Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 9 - Physical and Chemical Properties. Updated Section 11 - Toxicology Information. Updated Section 12 - Ecological Information. Updated Section 13 -Disposal Considerations. Updated Section 16 - Other Information. Prepared by: Toxicology and Hazard Communication Zoetis Global Risk Management Zoetis Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information

End of Safety Data Sheet

at this time.



Revision date: 28-Apr-2014

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Identifier

Material Name: West Nile Innovator + EW

Trade Name:WeSynonyms:WeEqChemical Family:Mix

West Nile Innovator West Nile Encephalitis Virus, Equine Encephalomyelitis Virus (Eastern and Western strains), Equine Influenza Virus (Prague 56 and Kentucky 97 strains), killed virus vaccine Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against Intended Use: Veterinary Vaccine

Details of the Supplier of the Safety Data Sheet

Zoetis Inc. 100 Campus Drive, P.O. Box 651 Florham Park, New Jersey 07932 (USA) Rocky Mountain Poison Control Center Phone: 1-866-531-8896 Product Support/Technical Services Phone: 1-800-366-5288

Emergency telephone number: CHEMTREC (24 hours): 1-800-424-9300 Contact E-Mail: VMIPSrecords@zoetis.com Zoetis Belgium S.A. Mercuriusstraat 20 1930 Zaventem Belgium

Emergency telephone number: International CHEMTREC (24 hours): +1-703-527-3887

2. HAZARDS IDENTIFICATION

Appearance: Reddish-white liquid Classification of the Substance or Mixture GHS - Classification Not classified as hazardous

EU Classification:

EU Indication of danger: Not classified

Label Elements

Signal Word:Not ClassifiedHazard Statements:Not classified in accordance with international standards for workplace safety.

Other Hazards
Short Term:May cause eye irritation. 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.
Non-Hazardous Substance. Non-Dangerous Goods.Australian Hazard Classification
(NOHSC):This document has been prepared in accordance with standards for workplace safety, which
requires the inclusion of all known hazards of the product or its ingredients regardless of the
potential risk. The precautionary statements and warning included may not apply in all cases.
Your needs may vary depending upon the potential for exposure in your workplace.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Formaldehyde	50-00-0	200-001-8	T; R23/24/25 C; R34 Carc.Cat.3; R40 R43	Acute Tox. 3 (H301) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Carc. 1A (H350) Acute Tox. 3 (H331)	##
Thimerosal	54-64-8	200-210-4	T+; R26/27/28; R33 N; R50/53	Acute Tox. 2 (H300) Acute Tox. 1 (H310) STOT RE 2 (H373) Acute Tox. 2 (H330) Acute Aquatic 1 (H400) Chronic Aquatic 1 (H410)	##
Amphotericin B	1397-89-3	215-742-2	Not Listed	Not Listed	##
Neomycin B	119-04-0	204-292-2	Xn;R22 Xn;R42/43 Repr.Cat.3;R63	Acute Tox. 4;H302 Resp. Sens. 1;H334 Skin Sens.1;H317 Repr.2;H361	##
Polymyxin B	1404-26-8	215-768-4	Xn;R22 Xn;R42/43	Acute Tox. 4 (H302) Skin Sens. 1 (H317) Resp Sens. 1 (H334)	##

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Equine Influenza Virus (Prague 56 strain)	Not assigned	Not Listed	Not Listed	Not Listed	*
Adjuvant	NA	Not Listed	Not Listed	Not Listed	*
EASTERN EQUINE ENCEPHALOMYELITIS	Not Assigned	Not Listed	Not Listed	Not Listed	*
WESTERN EQUINE ENCEPHALOMYELITIS	Not Assigned	Not Listed	Not Listed	Not Listed	*
Equine Influenza Virus, Kentucky 97 (EIV)	Not Assigned	Not Listed	Not Listed	Not Listed	*
West Nile Virus, killed	Not assigned	Not Listed	Not Listed	Not Listed	*

Material Name: West Nile Innovator + EW Revision date: 28-Apr-2014

Additional Information:

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

For the full text of the R phrases and CLP/GHS abbreviations mentioned in this Section, see Section 16

4. FIRST AID MEASURES Description of 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. Most Important Symptoms and Effects, Both Acute and Delayed For information on potential signs and symptoms of exposure, See Section 2 - Hazards Symptoms and Effects of Exposure: Identification and/or Section 11 - Toxicological Information. **Medical Conditions** None known Aggravated by Exposure:

Indication of the Immediate Medical Attention and Special Treatment Needed Notes to Physician: None

5. FIRE-FIGHTING MEASURES

Extinguish fires with CO2, extinguishing powder, foam, or water.

Extinguishing Media:

Special Hazards Arising from the Substance or Mixture

Hazardous Combustion Formation of toxic gases is possible during heating or fire. Products:

Fire / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions.

Advice for Fire-Fighters

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

Environmental Precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

Methods and Material for Containment and Cleaning Up

Measures for Cleaning /
Collecting:Contain the source of the spill if it is safe to do so. Wipe up with a damp cloth and place in
container for disposal. Clean contaminated surface thoroughly.

Additional Consideration for
Large Spills:Non-essential personnel should be evacuated from affected area. Report emergency
situations immediately. Clean up operations should only be undertaken by trained personnel.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Prevent environmental releases. Use appropriate personal protective equipment. Avoid accidental injection.

Conditions for Safe Storage, Including any Incompatibilities Storage Conditions: Store at room temperatu

Store at room temperature in properly labeled containers. Keep away from heat, sparks and flames.

Specific end use(s):

No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

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

Formaldehyde	
ACGIH Ceiling Threshold Limit: 0.3 p	pm
ACGIH - Sensitizer Designation Sens	itizer
Australia STEL 2 ppr	n
2.5 m	ng/m ³
Australia TWA 1 ppr	
	ng/m ³
Austria OEL - MAKs 0.5 p	
0.6 m	
Bulgaria OEL - TWA 1.0 m	
Czech Republic OEL - TWA 0.5 m	•
Estonia OEL - TWA 0.5 p	
0.6 m	•
Finland OEL - TWA 0.3 p	
	mg/m ³
France OEL - TWA 0.5 p	
Germany (DFG) - MAK 0.3 p	
	mg/m ³ no irritation should occur during mixed exposure
Greece OEL - TWA 2 ppr 2.5 m	
	•
Hungary OEL - TWA 0.6 m Ireland OEL - TWAs 2 ppr	•
2.5 m	
Japan - OELs - Ceilings 0.2 p	
	mg/m ³
Latvia OEL - TWA 0.5 m	
Lithuania OEL - TWA 0.5 p	
0.6 m	
	mg/m ³
	ng/m ³
OSHA - Final PELS - TWAs: 0.75	•
OSHA - Specifically Regulated Chemicals 2 ppr	•
0.5 p	
0.75	

Poland OEL - TWA	ONTROLS / PERSONAL PROTECTION 0.5 mg/m ³
Romania OEL - TWA	1 ppm 1.20 mg/m³
Slovakia OEL - TWA	0.3 ppm 0.37 mg/m ³
Slovenia OEL - TWA	0.5 ppm 0.62 mg/m ³
Sweden OEL - TWAs	0.3 ppm 0.37 mg/m³
Switzerland OEL -TWAs	0.3 ppm 0.37 mg/m ³
leomycin B	

Ne

Zoetis OEL TWA 8-hr

100µg/m³Sensitizer

The purpose of the Occupational Exposure Band (OEB) classification system is to separate substances into different Hazard categories when the available data are sufficient to do so, but inadequate to establish an Occupational Exposure Limit (OEL). The OEB given is based upon an analysis of all currently available data; as such, this value may be subject to revision when new information becomes available.

Polymyxin B	
Zoetis OEB	OEB 2 - Sensitizer (control exposure to the range of 100ug/m ³ to < 1000ug/m ³ , provide additional precautions to protect from skin contact)
Exposure Controls	
Engineering Controls:	Engineering controls should be used as the primary means to control exposures. Use process containment, local exhaust ventilation, or other engineering controls to maintain airborne levels within the OEB range.
Personal Protective Equipment:	Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).
Hands:	Wear impervious gloves if skin contact is possible.
Eyes:	Safety glasses or goggles
Skin:	Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.
Respiratory protection:	If airborne exposures are within or exceed the Occupational Exposure Band (OEB) range, wear an appropriate respirator with a protection factor sufficient to control exposures to the bottom of the OEB range.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Odor: Molecular Formula:	Liquid Odorless Mixture	Color: Odor Threshold: Molecular Weight:	Reddish No data available. Mixture
Solvent Solubility:	No data available		
Water Solubility:	Soluble		
pH:	6-8		
Melting/Freezing Point (°C):	No data available		
Boiling Point (°C):	No data available.		
Partition Coefficient: (Method, pH, E	Endpoint, Value)		
No data available	. ,		
Decomposition Temperature (°C):	No data available.		

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Evaporation Rate (Gram/s):No data availableVapor Pressure (kPa):No data availableVapor Density (g/ml):No data availableRelative Density:No data availableViscosity:No data available

Flammablity:

Autoignition Temperature (Solid) (°C): Flammability (Solids): Flash Point (Liquid) (°C): Upper Explosive Limits (Liquid) (% by Vol.): Lower Explosive Limits (Liquid) (% by Vol.): No data available No data available No data available No data available No data available

10. STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions Oxidizing Properties: Conditions to Avoid: Incompatible Materials: Hazardous Decomposition Products: No data available Stable under normal conditions of use.

No data available Fine particles (such as dust and mists) may fuel fires/explosions. As a precautionary measure, keep away from strong oxidizers No data available

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects General Information:

Toxicological properties of the formulation have not been fully investigated. 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)

Thimerosal

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

Neomycin B

Rat Oral LD 50 1250 mg/kg Mouse IV LD50 24mg/kg

Formaldehyde

Rat Oral LD50 800 mg/kg

Polymyxin B

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

11. TOXICOLOGICAL INFORMATION

Amphotericin B

RatOralLD50> 5000 mg/kgRatPara-periostealLD501.6mg/kgRatIntraperitonealLD50> 5000mg/kgMouseIntravenousLD501.2mg/kgMouseIntraperitonealLD5027.7mg/kg

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

Thimerosal

Eye Irritation Rabbit Mild

Formaldehyde

Eye Irritation Rabbit Severe Skin Irritation Rabbit Moderate Severe Skin Sensitization Positive

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Formaldehyde

90 Day(s) Inhalation Not Specified Dog Lungs Inhalation Not Specified 90 Day(s) Rat Lungs 90 Day(s) Inhalation Not Specified Monkey Lungs 90 Day(s) Rat Inhalation 15 ppm LOAEL Respiratory system

Amphotericin B

30 Day(s) Dog Intravenous 37 mg/kg/day LOAEL Kidney 2 Month(s) Kidney Intravenous 16.5 mg/kg/day LOAEL Dog Male reproductive system, Female reproductive system 13 Week(s) Oral 2 mg/kg/day NOAEL Rat 13 Week(s) Dog Oral 1.6 mg/kg/day NOAEL Male reproductive system, Female reproductive 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

Amphotericin B

Embryo / Fetal Development Rat Oral 7.5 mg/kg/day NOAEL Not teratogenic, Fetotoxicity Embryo / Fetal Development Rabbit Oral 10 mg/kg/day NOAEL Not Teratogenic, Fetotoxicity

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

Negative

11. TOXICOLOGICAL INFORMATION

In Vivo Negative	
Amphotericin B Bacterial Mutagenicity (Ames) In Vivo Micronucleus Mouse In Vitro Chromosome Aberration	<i>Salmonella</i> , <i>E. coli</i> Negative Negative Chinese Hamster Ovary (CHO) cells

Mogativo

Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Formaldehyde

In Vitro

Inhalation 6 ppm LOAEL Tumors 2 Year(s) Rat Mouse Inhalation 15 ppm LOAEL Tumors 2 Year(s)

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

12. ECOLOGICAL INFORMATION

Environmental properties have not been thoroughly investigated. This product contains trace quantities of mercury, releases to the environment should be avoided.
No data available

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).

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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

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada - WHMIS: Classifications WHMIS hazard class: None required

CERCL Califori	nza Virus (Prague 56 strain) .A/SARA 313 Emission reporting nia Proposition 65	Not Listed Not Listed
EU EIN	ECS/ELINCS List	Not Listed
Formaldehyd	e	
•	A/SARA 313 Emission reporting	0.1 %
	A/SARA Hazardous Substances	100 lb
and the	eir Reportable Quantities:	45.4 kg
CERCL TPQs	A/SARA - Section 302 Extremely Hazardous	500 lb
	A/SARA - Section 302 Extremely Hazardous nces EPCRA RQs	100 lb
Califori	nia Proposition 65	carcinogen initial date 1/1/88 gas
OSHA -	 Specifically Regulated Chemicals 	2 ppm
		0.5 ppm
		0.75 ppm
	ory - United States TSCA - Sect. 8(b)	Present
	lia (AICS):	Present
	rd for the Uniform Scheduling	Schedule 2
	gs and Poisons:	Schedule 6
EU EIN	ECS/ELINCS List	200-001-8
Thimerosal		
	A/SARA 313 Emission reporting	Not Listed
	nia Proposition 65	developmental toxicity initial date 7/1/90

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	TORY INFORMATION
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
REACH - Annex XVII - Restrictions on Certain	Use restricted. See item 18.
Dangerous Substances:	
EU EINECS/ELINCS List	200-210-4
Adjuvant	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
EU EINECS/ELINCS List	Not Listed
Amphotericin B	
-	Not Listed
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	
Australia (AICS):	Present
Standard for the Uniform Scheduling	Schedule 4
for Drugs and Poisons: EU EINECS/ELINCS List	215 742 2
EU EINEGJ/ELINGƏ LIST	215-742-2
Neomycin B	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Australia (AICS):	Present
Standard for the Uniform Scheduling	Schedule 4
for Drugs and Poisons:	
EU EINECS/ELINCS List	204-292-2
EASTERN EQUINE ENCEPHALOMYELITIS	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
EU EINECS/ELINCS List	Not Listed
WESTERN EQUINE ENCEPHALOMYELITIS	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
EU EINECS/ELINCS List	Not Listed
Equine Influenza Virus, Kentucky 97 (EIV)	
CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
EU EINECS/ELINCS List	Not Listed
West Nile Virus, killed	
CERCLA/SARA 313 Emission reporting	Not Listed
	Not Listed
California Proposition 65 EU EINECS/ELINCS List	Not Listed
Polymyxin B	Not Listed
CERCLA/SARA 313 Emission reporting	
California Proposition 65	Not Listed
EU EINECS/ELINCS List	215-768-4

16. OTHER INFORMATION

Text of R phrases and GHS Classification abbreviations mentioned in Section 3

H302 - Harmful if swallowed H317 - May cause an allergic skin reaction H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled H301 - Toxic if swallowed H314 - Causes severe skin burns and eye damage H350 - May cause cancer H331 - Toxic if inhaled H300 - Fatal if swallowed H310 - Fatal in contact with skin H373 - May cause damage to organs through prolonged or repeated exposure H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects H361 - Suspected of damaging fertility or the unborn child H330 - Fatal if inhaled Xn - Harmful T - Toxic C - Corrosive Carcinogenic: Category 3 T+ - Very toxic N - Dangerous for the environment Toxic to Reproduction: Category 3 R22 - Harmful if swallowed. R34 - Causes burns. R40 - Limited evidence of a carcinogenic effect R33 - Danger of cumulative effects. R63 - Possible risk of harm to the unborn child. R42/43 - May cause sensitization by inhalation and skin contact. R23/24/25 - Toxic by inhalation, in contact with skin and 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. The data contained in this MSDS may have been gathered from confidential internal sources, Data Sources: raw material suppliers, or from the published literature. Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking. **Reasons for Revision:** Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on Ingredients. Updated Section 4 - First Aid Measures. Updated Section 6 - Accidental Release Measures. Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 9 - Physical and Chemical Properties. Updated Section 11 - Toxicology Information. Updated Section 12 - Ecological Information. Updated Section 13 -Disposal Considerations. Updated Section 16 - Other Information. Prepared by: Toxicology and Hazard Communication Zoetis Global Risk Management Zoetis Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information

End of Safety Data Sheet

at this time.