This SDS packet was issued with item:

078446920

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

078446904



MATERIAL SAFETY DATA SHEET

IDENTITY Vira Shield 6 + VL5 - Bacterin - Ki	illed Virus	,		Product # 3	07 312		
Section I	ineu virus	•		Froduct # 5	07, 312		
Manufacturer's Name		Emergen	cy Telephone Number				
Novartis Animal Health, US, Inc.		800-45					
Address (Number, Street, City, State, and Zip C	Code)		ne Number for Information	n			
(-1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.			800-843-3386				
1447 140th Street		Date Prepared February 28, 2005 Revised Date: February 15, 2009					
Larchwood, IA 51241-9778			Signature of Preparer (optional)				
Section II - Hazardous Ingredients/Iden	ntity Inforn	nation					
Hazardous Components (Specific Chemical Ide	entity; Comm	on Name		.CGIH Other lii			
			PEL	TLV Recomm	· · · · · · · · · · · · · · · · · · ·		
Thimerosal (merthiolate)			0.01 r	ng of Hg/ m ³	≤ 0.03		
Thimerosal is an organomercury com	pound.						
					_		
Formaldehyde			0.75 pp	om 0.3 ppm	≤ 0.5		
Costion III Dhardaal/Chardaal Chara	4						
Section III - Physical/Chemical Charac Boiling Point			G 'C G ' (II	0 1)	37.4		
Boiling Point	NA	Specific Gravity ($H_2O = 1$)		NA			
W D (W)	37.4	26.11					
Vapor Pressure (mm Hg.)	NA	Λ	Melting Point		NA		
Vapor Density (AIR = 1)		١	Evaporation Rate		NA		
, ,	111	•	(Butyl Acetate = 1)	1111			
Solubility in Water	•		<u>. </u>				
Yes							
Appearance and Odor							
Opaque liquid	I.D. 4						
Section IV - Fire and Explosion Hazard Flash Point (Method Used)	ı Data	Elem	nmable Limits	LEL	UEL		
NA		NA		NA NA	NA NA		
Extinguishing Media			1121	1111	1171		
Dry chemical o	or carbon d	ioxide					
Special Fire Fighting Procedures Wear pro			d a self contained by	reathing apparatus	as appropriate		
for the surrounding fire.		J		U 11	11 1		
Unusual Fire and Explosion Hazards None	,						

Vira Shield 6 + VL5 - Bacterin - Killed Virus

Section V - Reactivity Data					
Stability	Unstable		Conditions to Avoid	Thimerosal will decompose with heat.	
	Stable	X		-	
Incompatibility (Materia	ls to Avoid)				
	None)			
Hazardous Decomposition	on or Byproducts Merci	ury, carb	on monoxide, or o	carbon dioxide	
Hazardous	May Occur		Conditions to Avoid	d None	
Polymerization	.,		Conditions to Avoid	1 None	
	Will Not Occur	X			
Section VI - Health I	Hazard Data				
Route(s) of Entry:	Inhalation? Yes		Skin?	Ingestion? es Yes	
Health Hazards (Acute a					
The product may be	irritating in the case of	of skin o	r eye contact. Thi	merosal is a toxic compound.	
Carcinogenicity:	NPT? Ye	S	IARC Monographs?	Yes OSHA Regulated? Yes	
E IE' (A')	ID I Impaga of	alrim on o	va comto at fluida v	with mlanty of water. If the muchyot is	
				with plenty of water. If the product is	
	e a physician immedia		i physician. In car	se of accidental injection, wash the	
puncture site and se	e a physician immedia	nery.			
Section VII - Precaut	tions for Safe Handling	and Use			
	se Material Is Released or S				
			erwards, wash the	site thoroughly with water.	
1 1		•	·		
Waste Disposal Method					
	ice with all applicable	federal,	state and local en	vironmental regulations.	
_				-	
Precautions to Be Taken	in Handling and Storing				
Refrigerate the product (2° to 7° C) {35° to 45° F}. Keep the container closed when stored, and shake well					
before using.					
Other Precautions N/A					
Section VIII - Contro	ol Measures				
Respiratory Protection (Specify Type)					
An approved cartridge respirator for large spills					
Ventilation	Local Exhaust No			Special NA	
	Mechanical (General)	Yes		Other NA	
Protective Gloves	1		Eye Protection		
Vinyl or nitrile Goggles					
Other Protective Clothing or Equipment NA					
Work/Hygienic Practices Take processions to prevent assidental injections					
Take precautions to prevent accidental injections.					

Vira Shield 6 + VL5 - Bacterin - Killed Virus

Section IX - Regulatory Information

Component: Thimerosal

Mercury and mercury compounds are subject to CWA, SDWA, CAA, RCRA, CERCLA, SARA (Secs. 312 and 313), DOT and 29 CFR 1910.1200 regulations.

Component: Formaldehyde

Formaldehyde is subject to SARA (Secs. 312 and 313), CERCLA, and 29 CFR 1910.1048 regulations

This Material Safety Data Sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. Accordingly, no guarantee expressed or implied is made by Novartis Animal Vaccines, Inc. as to the results to be obtained based upon your use of the information, nor does Novartis Animal Vaccines, Inc. assume any liability arising out of your use of the information.



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

Product Identifier

Material Name: Povidone-Iodine Cutaneous Solution

Trade Name: Povidone Iodine Solution

Synonyms: Povidone-lodine

Chemical Family: Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Pharmaceutical product used as disinfectant, antiseptic

Details of the Supplier of the Safety Data Sheet

Pfizer Inc Pfizer Pharmaceuticals Group 235 East 42nd Street New York, New York 10017

1-800-879-3477

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

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS - Classification Not classified as hazardous

Label Elements

Signal Word: Not Classified

Hazard Statements: Not classified in accordance with international standards for workplace safety.

Other Hazards An Occupational Exposure Value has been established for one or more of the ingredients (see

Section 8).

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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous

Material Name: Povidone-lodine Cutaneous Solution

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3. COMPOSITION / INFORMATION ON INGREDIENTS					
Ingredient	CAS Number	EU EINECS/ELINCS	GHS Classification	%	
		List			
Povidone-lodine	25655-41-8	Not Listed	Acute Tox 4 (H312, H332)Acute 1 (H400)	0.85-1.2	
Citric acid	77-92-9	201-069-1	Eye Irrit. 2A (H319)	<1.0	

Ingredient	CAS Number	EU	GHS Classification	%
_		EINECS/ELINCS		
		List		
Sodium Phosphate	7632-05-5	231-558-5	Not Listed	*
Nonoxynol-9	26027-38-3	Not Listed	Not Listed	*
Polyethylene glycol 400	25322-68-3	Not Listed	Not Listed	*
Water for injection	7732-18-5	231-791-2	Not Listed	*

Additional Information: * Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety. In accordance with 29 CFR 1910.1200, the exact percentage composition of this

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mixture has been withheld as a trade secret.

For the full text of the 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

Symptoms and Effects of For information on potential signs and symptoms of exposure, See Section 2 - Hazards

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. May include oxides of carbon

Products: nitrogen and products of iodine.

Fire / Explosion Hazards: Not applicable

Material Name: Povidone-Iodine Cutaneous Solution

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Advice for Fire-Fighters

During all firefighting 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 spill if it is safe to do so. Collect spill with absorbent material. Clean spill

Collecting: area thoroughly.

Additional Consideration for

Large Spills:

Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Cleanup operations should only be undertaken by trained personnel.

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7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid breathing 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.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Store as directed by product packaging.

Specific end use(s): Pharmaceutical product

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

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

Polyethylene glycol 400

 Austria OEL - MAKs
 1000 mg/m³

 Germany - TRGS 900 - TWAs
 1000 mg/m³

Germany (DFG) - MAK 1000 mg/m³ average molecular weight 200-600

Slovakia OEL - TWA1000 mg/m³Slovenia OEL - TWA1000 mg/m³Switzerland OEL -TWAs1000 mg/m³

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.

Povidone-lodine

Pfizer Occupational Exposure OEB 2 (control exposure to the range of 100ug/m³ to < 1000ug/m³) **Band (OEB):**

Exposure Controls

Material Name: Povidone-Iodine Cutaneous Solution Page 4 of 8
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering 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 air contamination levels below the exposure limits or within the OEB range listed above in this

section.

Personal Protective

Equipment:

Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE). Contact your safety and health professional or safety equipment supplier for assistance in selecting the correct protective clothing/equipment based on an assessment of the workplace conditions, other chemicals used or present in the workplace and specific operational processes.

Hands: Impervious gloves (e.g. Nitrile, etc.) are recommended if skin contact with drug product is

possible and for bulk processing operations. (Protective gloves must meet the standards in

accordance with EN374, ASTM F1001 or international equivalent.)

Eyes: Wear safety glasses or goggles if eye contact is possible. (Eye protection must meet the

standards in accordance with EN166, ANSI Z87.1 or international equivalent.)

Skin: Impervious protective clothing is recommended if skin contact with drug product is possible and

for bulk processing operations. (Protective clothing must meet the standards in accordance

with EN13982, ANSI 103 or international equivalent.)

Respiratory protection: Under normal conditions of use, 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 (e.g. particulate respirator with a half mask, P3 filter). (Respirators must meet the standards in accordance with EN140, EN143, ASTM F2704-10 or international

equivalent.)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Color: Brown

Odor: None Odor Threshold: No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility:
Water Solubility:
PH:
No data available
No data available
No data available.
No data available.
No data available.
No data available
No data available
Partition Coefficient: (Method, pH, Endpoint, Value)

Polyethylene glycol 400

No data available
Nonoxynol-9
No data available
Sodium Phosphate
No data available
Water for injection
No data available

Citric acid
No data available
Povidone-lodine
No data available

Decomposition Temperature (°C): No data available.

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

Viscosity:

No data available
No data available
No data available
No data available

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Material Name: Povidone-Iodine Cutaneous Solution

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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

10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use.

Possibility of Hazardous Reactions

Oxidizing Properties: No data available

Conditions to Avoid: Fine particles (such as dust and mists) may fuel fires/explosions. **Incompatible Materials:** As a precautionary measure, keep away from strong oxidizers

Hazardous Decomposition No data available

Products:

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

General Information: The information included in this section describes the potential hazards of the individual

ingredients.

Short Term: May cause eye irritation (based on components) .

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

Citric acid

Rat Oral LD50 3000 mg/kg

Povidone-Iodine

Rat Oral LD50 > 8000 mg/kg

Acute Toxicity Comments: A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable

at the highest dose used in the test.

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

Polyethylene glycol 400

Eye Irritation Rabbit Mild Skin Irritation Rabbit Mild

Citric acid

Eye Irritation Rabbit Severe Skin Irritation Rabbit Mild

Povidone-lodine

Skin Irritation Rabbit Mild

Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

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revision date. 22-rep-2016 version. 3

12. ECOLOGICAL INFORMATION

Environmental Overview: The environmental characteristics of this mixture have not been fully evaluated. 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.

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

Povidone-lodine

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Sodium Phosphate

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Material Name: Povidone-Iodine Cutaneous Solution

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15. REGULATORY INFORMATION

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Standard for the Uniform Scheduling
for Drugs and Poisons:

EU EINECS/ELINCS List

Not Listed

Sresent

Present

Schedule 3

Schedule 4

EU EINECS/ELINCS List

Nonoxynol-9

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

EU EINECS/ELINCS List

Not Listed

Present

Not Listed

Polyethylene glycol 400

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Standard for the Uniform Scheduling
for Drugs and Poisons:

EU EINECS/ELINCS List

Not Listed

Citric acid

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Present

201-069-1

Water for injection

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

REACH - Annex IV - Exemptions from the obligations of Register:

EU EINECS/ELINCS List

Not Listed

Not Listed

Present

Present

231-791-2

16. OTHER INFORMATION

Text of CLP/GHS Classification abbreviations mentioned in Section 3

Acute toxicity, dermal-Cat.4; H312 - Harmful in contact with skin Acute toxicity, inhalation-Cat.4; H332 - Harmful if inhaled Serious eye damage/eye irritation-Cat.2A; H319 - Causes serious eye irritation Hazardous to the aquatic environment, acute toxicity-Cat.1; H400 - Very toxic to aquatic life

Data Sources: Publicly available toxicity information.

Reasons for Revision: Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking.

Material Name: Povidone-Iodine Cutaneous Solution Page 8 of 8
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Revision date: 22-Feb-2018

Product Stewardship Hazard Communication

Prepared by: Pfizer Global Environment, Health, and Safety Operations

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 warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet
