# **SAFETY DATA SHEETS**

# This SDS packet was issued with item:

078390970

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

078390822

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).

078390541



### MATERIAL SAFETY DATA SHEET

IDENTITY Vira Shield 3 + VL5 - Bacterin - Killed	l Virus			Product # 129,	152	
Section I				,		
Manufacturer's Name	Е	Emergen	cy Telephone Number			
Novartis Animal Health, US, Inc.	8	300-45	4-3424			
Address (Number, Street, City, State, and Zip Code)		Telephone Number for Information 800-843-3386				
1447 140th Street		Date Prepared October 23, 1996 Revised Date: February 15, 2009				
Larchwood, IA 51241-9778 S			Signature of Preparer (optional)			
Section II - Hazardous Ingredients/Identity	y Informa	ation				
Hazardous Components (Specific Chemical Identity	y; Commoi	n Name(	(s)) OSHA A PEL	CGIH Other I TLV Recom	imits % nmended (optional)	
				≤ 0.03		
Thimerosal is an organomercury compou	ınd.					
Formaldehyde			0.75 pp	m 0.3 ppm	≤ 0.5	
Section III - Physical/Chemical Characteri Boiling Point	stics NA		Specific Gravity (H <sub>2</sub>	NA		
Vapor Pressure (mm Hg.)	NA		Melting Point		NA	
Vapor Density (AIR = 1)	NA		Evaporation Rate (Butyl Acetate = 1)		NA	
Solubility in Water Yes						
Appearance and Odor Opaque liquid						
Section IV - Fire and Explosion Hazard Da	nta					
Flash Point (Method Used)		Flammable Limits LEL		UEL		
NA			NA	NA	NA	
Extinguishing Media		-		-	I	
Dry chemical or ca	arbon dio	oxide				
Special Fire Fighting Procedures Wear protect for the surrounding fire.	tive cloth	ing an	d a self contained br	eathing apparatu	is as appropriate	
Unusual Fire and Explosion Hazards None						

## Vira Shield 3 + VL5 - Bacterin - Killed Virus

Section V - Reactivit	y Data					
Stability	Unstable		Conditions to Avoid Thi	merosal will decompose with heat.		
	Stable	X				
Incompatibility (Materia	ls to Avoid)					
, , , , , , , , , , , , , , , , , , ,	None	)				
Hazardous Decomposition	on or Byproducts Merci	ury, carb	on monoxide, or carbo	n dioxide		
Hazardous	May Occur		Conditions to Avoid No	one		
Polymerization			Conditions to 71 old 1 ve	, in the second		
	Will Not Occur	X				
	Section VI - Health Hazard Data					
Route(s) of Entry:	Inhalation? Yes		Skin? Yes	Ingestion? Yes		
Health Hazards (Acute a						
The product may be	e irritating in the case of	of skin o	eye contact. Thimero	sal is a toxic compound.		
Carcinogenicity:	NPT? Ye	S	ARC Monographs? Yes	OSHA Regulated? Yes		
		1 '		1 . 6 . 16.1 1		
				lenty of water. If the product is		
			physician. In case of	accidental injection, wash the		
puncture site and se	e a physician immedia	itely.				
G 4 VII D	4. 6 C 6 TT 11.	1.77				
Section VII - Precautions for Safe Handling and Use						
	Steps to Be Taken in Case Material Is Released or Spilled Clean up the spill with absorbent material, and afterwards, wash the site thoroughly with water.					
Crean up the spin w	illi absorbent material	, and are	i wards, wash the site t	noroughly with water.		
W · D' IM d I						
Waste Disposal Method  Disposa in accordance with all applicable federal, state and local environmental regulations						
Dispose in accordance with all applicable federal, state and local environmental regulations.						
Descriptions to Do Tolvon	in Handling and Staning					
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						
Ouici i recautions 14/A						
Section VIII - Control Measures						
Respiratory Protection (Specify Type) An approved cartridge respirator for large spills						
Ventilation		spilis		, NTA		
v ciittiation	Local Exhaust No	Vas	Specia			
Duota etiva Claves	Mechanical (General)	Yes	Other	NA		
Vir	Protective Gloves  Vinyl or nitrile  Eye Protection  Goggles					
Other Protective Clothing or Equipment  NA						
Work/Hygienic Practices						
Take precautions to prevent accidental injections.						

#### Vira Shield 3 + 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

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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.



### MATERIAL SAFETY DATA SHEET

IDENTITY Vira Shield 3 - Killed Virus		P	roduct #	# 1 <b>4</b> 4		
Section I						
Manufacturer's Name	Em	ergency Telephone Number				
Novartis Animal Health, US, Inc.		800-454-3424				
Address (Number, Street, City, State, and Zip Code)		Telephone Number for Information 800-843-3386				
1447 140th Street		te Prepared: November 13, 1992	2	Revised Date: February 15, 2009		
Larchwood, IA 51241-9778	Sig	Signature of Preparer (optional)				
Section II - Hazardous Ingredients/Identity Info						
Hazardous Components (Specific Chemical Identity; Com	nmon l		CGIH TLV	Other limi		
TT1: 1/ (1:1.4.)		PEL	nded (optional)			
Thimerosal (merthiolate)		0.01 mg	g of Hg/	m <sup>o</sup>	≤ 0.03	
Thimerosal is an organomercury compound.						
Section III - Physical/Chemical Characteristics						
	NΑ	Specific Gravity (H <sub>2</sub> 0	0 – 1)		NA	
Doming Fount	NA	Specific Gravity (112)	0 – 1)		INA	
W D ( H)	T.	2611 811				
Vapor Pressure (mm Hg.)	NΑ	Melting Point			NA	
Vapor Density (AIR = 1)	VΑ	Evaporation Rate			NA	
Solubility in Water		(Butyl Acetate = 1)				
Yes						
Appearance and Odor						
Opaque liquid						
Section IV - Fire and Explosion Hazard Data						
Flash Point (Method Used)		Flammable Limits	LEL		UEL	
NA		NA		NA	NA	
Extinguishing Media						
Dry chemical or carbon						
Special Fire Fighting Procedures Wear protective clothing and a self contained breathing apparatus as appropriate						
for the surrounding fire.						
Harried Fine and Franksian Harried Money						
Unusual Fire and Explosion Hazards None						

## Vira Shield 3 - Killed Virus

Section V - Reacti	vity Data		
Stability	Unstable		Conditions to Avoid Thimerosal will decompose with heat.
	Stable	X	
Incompatibility (Mate	erials to Avoid)  Non	e	
Hazardous Decompos	sition or Byproducts Merc	ury, carb	oon monoxide, or carbon dioxide
Hazardous Polymerization	May Occur		Conditions to Avoid None
	Will Not Occur	X	
Section VI - Healt	h Hazard Data	Į.	
Route(s) of Entry:	Inhalation? Yes		Skin? Ingestion? Yes Yes
Health Hazards (Acu			
The product may	be irritating in the case	of skin o	r eye contact. Thimerosal is a toxic compound.
			N
Carcinogenicity:	NPT? N	0	IARC Monographs? No OSHA Regulated? No
Emergency and First	Aid Procedures In case of	skin or e	eye contact, flush with plenty of water. If the product is
			a physician. In case of accidental injection, wash the
•	see a physician immedi		a physician. In case of accidental injection, wash are
panetare site and	see a pinj stetan minies.		
Section VII - Prec	autions for Safe Handling	g and Use	
	Case Material Is Released or S		
Clean up the spil	l with absorbent materia	l, and aft	erwards, wash the site thoroughly with water.
Waste Disposal Meth		C 1 1	44 - 11 - 1 - 1 - 1 - 1 - 1 - 1
Dispose in accord	nance with all applicable	tederal,	state and local environmental regulations.
	ken in Handling and Storing		
	roduct ( $2^{\circ}$ to $7^{\circ}$ C) { $35^{\circ}$	to 45° F	}. Keep the container closed when stored, and shake well
before using.			
Other Precautions	N/A		
Section VIII - Cor	ntrol Measures		
Respiratory Protectio			
	ridge respirator for large	e spills	
Ventilation	Local Exhaust No		Special NA
	Mechanical (General)	Yes	Other NA
Protective Gloves Vinyl or nitrile Eye Protection Goggles			
Other Protective Clot		ſΑ	
Work/Hygienic Pract	ices		
	Take precautio	ns to pre	vent accidental injections.

#### Vira Shield 3 - 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.

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