

MATERIAL SAFETY DATA SHEET

IDENTITY						
Vira Shield 6 + VL5 ^{HB} Somnus Bacterin	 Killed ` 	Virus	Product #381, 382			
Section I						
Manufacturer's Name		Emergency Telephone Number				
Novartis Animal Health US, Inc.		800-454-3424				
Address (Number, Street, City, State, and Zip Code)		ne Number for Informati 13-3386	on			
1447 140th Street		Date Prepared August 26, 2006 Revised Date: May 24, 2013				
Larchwood, IA 51241-9778	Signatur	re of Preparer (optional)				
Section II - Hazardous Ingredients/Identity Information						
Hazardous Components (Specific Chemical Identity; Con		PEL	ACGIH Other limits TLV Recommende	% ed (optional)		
Thimerosal (merthiolate)		$0.01 \text{ mg of Hg/m}^3 \leq 0.01$				
Thimerosal is an organomercury compound.						
Formaldehyde		0.75 ppm 0.3	ppm <u><</u>	0.5		
Section III - Physical/Chemical Characteristics						
Boiling Point	NΑ	Specific Gravity (H	$H_2O = 1$	NA		
Vapor Pressure (mm Hg.)	NΑ	Melting Point		NA		
1 2	11 1			1111		
Vapor Density (AIR = 1)	JA	Evaporation Rate		NA		
Vapor Density (AIR = 1)	NA	Evaporation Rate (Butyl Acetate = 1))	NA		
Vapor Density (AIR = 1) Solubility in Water	NA	Evaporation Rate (Butyl Acetate = 1))	NA		
Solubility in Water Yes	NA .	•)	NA		
Solubility in Water Yes Appearance and Odor	NA	•)	NA		
Solubility in Water Yes Appearance and Odor Opaque liquid	NA	•)	NA		
Solubility in Water Yes Appearance and Odor	NA	•)	NA		
Solubility in Water Yes Appearance and Odor Opaque liquid Section IV - Fire and Explosion Hazard Data Flash Point (Method Used)		(Butyl Acetate = 1)	LEL	UEL		
Solubility in Water Yes Appearance and Odor Opaque liquid Section IV - Fire and Explosion Hazard Data Flash Point (Method Used) NA		(Butyl Acetate = 1)				
Solubility in Water Yes Appearance and Odor Opaque liquid Section IV - Fire and Explosion Hazard Data Flash Point (Method Used) NA Extinguishing Media	Flai	(Butyl Acetate = 1)	LEL	UEL		
Solubility in Water Yes Appearance and Odor Opaque liquid Section IV - Fire and Explosion Hazard Data Flash Point (Method Used) NA Extinguishing Media Dry chemical or carbon	Flan	(Butyl Acetate = 1)	LEL NA	UEL NA		
Solubility in Water Yes Appearance and Odor Opaque liquid Section IV - Fire and Explosion Hazard Data Flash Point (Method Used) NA Extinguishing Media Dry chemical or carbon Special Fire Fighting Procedures Wear protective of	Flan	(Butyl Acetate = 1)	LEL NA	UEL NA		
Solubility in Water Yes Appearance and Odor Opaque liquid Section IV - Fire and Explosion Hazard Data Flash Point (Method Used) NA Extinguishing Media Dry chemical or carbon	Flan	(Butyl Acetate = 1)	LEL NA	UEL NA		
Solubility in Water Yes Appearance and Odor Opaque liquid Section IV - Fire and Explosion Hazard Data Flash Point (Method Used) NA Extinguishing Media Dry chemical or carbon Special Fire Fighting Procedures Wear protective of	Flan	(Butyl Acetate = 1)	LEL NA	UEL NA		

Section V - Reactivit	y Data				
Stability	Unstable		Conditions to Avoid Thimerosal will decompose with heat.		
	Stable	X	,		
Incompatibility (Materia	ls to Avoid)				
	None	e			
Hazardous Decomposition or Byproducts Mercury, carbon monoxide, or carbon dioxide					
Hazardous Polymerization	May Occur		Conditions to Avoid None		
	Will Not Occur	X			
Section VI - Health	Hazard Data	U.			
Route(s) of Entry:	Inhalation?		Skin? Ingestion?		
	Yes		Yes Yes		
Health Hazards (Acute a		c 1:			
The product may be	irritating in the case	of skin o	or eye contact. Thimerosal is a toxic compound.		
Carcinogenicity:	NPT? Ye	es	IARC Monographs? Yes OSHA Regulated? Yes		
			eye contact, flush with plenty of water. If the product is		
			a physician. In case of accidental injection, wash the		
puncture site and se	e a physician immedia	ately.			
	tions for Safe Handling				
	se Material Is Released or S				
Clean up the spill w	1th absorbent material	l, and aft	terwards, wash the site thoroughly with water.		
Waste Disposal Method					
			If discarded in its manufactured form, this product is a		
			Canada). It is the responsibility of the user to determine at the		
		_	e product or derived from the product should be classified as a		
solid or hazardous waste. Always dispose of this product in accordance with all applicable federal, state and					
local environmental 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 - Contr					
Respiratory Protection (
	dge respirator for large	e spills			
Ventilation	Local Exhaust No		Special NA		
	Mechanical (General)	Yes	Other NA		
Protective Gloves	1		Eye Protection		
	nyl or nitrile		Goggles		
Other Protective Clothin	ig or Equipment N	Α			
Work/Hygienic Practice		А			
Take precautions to prevent accidental injections.					

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Section IX - Regulatory Info	ormation
Transportation:	UN-Number: FREE (under all transportation regulations) Class: This product is <u>not regulated as a dangerous good</u> when offered for transportation according to US DOT, EUADR, ICAO/IATA, IMDG or ADR/RID regulations.
Note: This product contains thimerosal (< 0.01%)	Thimerosal is a mercury compound which is subject to CWA, SDWA, CAA, RCRA, CERCLA, SARA (Secs. 312 and 313), DOT and 29 CFR 1910.1200 regulations.
Note: This product contains 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.