SAFETY DATA SHEETS

This SDS packet was issued with item:

078548658

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).

078548666 078567425 078658701

NOVARTIS

MATERIAL SAFETY DATA SHEET

IDENTITY
Vira Shield 6 + VL5^{HB} Somnus Bacterin – Killed Virus Product #381, 382

Section I	
Manufacturer's Name Novartis Animal Health US, Inc.	Emergency Telephone Number 800-454-3424
Address (Number, Street, City, State, and Zip Code)	Telephone Number for Information 800-843-3386
1447 140th Street	Date Prepared August 26, 2006 Revised Date: May 24, 2013
Larchwood, IA 51241-9778	Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other limits Recommended	% (optional)
Thimerosal (merthiolate)	0.01 mg of Hg/ m^3			≤ 0.01
Thimerosal is an organomercury compound.				
Formaldehyde	0.75 ppm	0.3 ppm		≤ 0.5

Section III - Physical/Chemical Characteristics

Boiling Point	NA	Specific Gravity (H_2O = 1)	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 Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
NA	NA	NA	NA

Extinguishing Media
Dry chemical or carbon dioxide

Special Fire Fighting Procedures Wear protective clothing and a self contained breathing apparatus as appropriate for the surrounding fire.

Unusual Fire and Explosion Hazards None

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Section V - Reactivity Data			
Stability	Unstable		Conditions to Avoid Thimerosal will decompose with heat.
	Stable	X	
Incompatibility (Materials to Avoid) None			
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			
Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
Health Hazards (Acute and Chronic) The product may be irritating in the case of skin or eye contact. Thimerosal is a toxic compound.			
Carcinogenicity:	NPT? Yes	IARC Monographs? Yes	OSHA Regulated? Yes
Emergency and First Aid Procedures In case of skin or eye contact, flush with plenty of water. If the product is ingested, wash the mouth out with water and call a physician. In case of accidental injection, wash the puncture site and see a physician immediately.			

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.
Waste Disposal Method
This product contains trace quantities of mercury. If discarded in its manufactured form, this product is a hazardous waste under RCRA (U.S.) and CEPA (Canada). It is the responsibility of the user to determine at the time of disposal whether a material containing the 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 - Control 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 Vinyl or nitrile	Eye Protection Goggles	
Other Protective Clothing or Equipment NA		
Work/Hygienic Practices Take precautions to prevent accidental injections.		

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Section IX - Regulatory Information	
Transportation:	UN-Number: FREE (under all transportation regulations) Class: This product is not regulated as a dangerous good 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

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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.

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