



MATERIAL SAFETY DATA SHEET

IDENTITY			
Vira Shield 6 + VL5^{HB} - Bacterin – Killed Virus		Product # 378 & 379	
Section I			
Manufacturer's Name Novartis Animal Health US, Inc.		Emergency Telephone Number 800-454-3424	
Address (Number, Street, City, State, and Zip Code) 1447 140th Street		Telephone Number for Information 800-843-3386	
Larchwood, IA 51241-9778		Date Prepared : August 23, 2006 2009	Revised Date: February 10, 2009
		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)
Formaldehyde	0.75 ppm	0.3 ppm	≤ 0.5
Thimerosal (merthiolate)	0.01 mg of Hg/m ³		≤ 0.03
Thimerosal is an organomercury compound.			
Section III - Physical/Chemical Characteristics			
Boiling Point	NA	Specific Gravity (H ₂ O = 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) NA	Flammable Limits NA	LEL NA	UEL 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 None
	Stable	X	
Incompatibility (Materials to Avoid) None			
Hazardous Decomposition or Byproducts 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?	Skin?	Ingestion?
	Yes	Yes	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
Formaldehyde is a suspected human carcinogen.			
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: Dispose 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 NA			
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

Component: Formaldehyde

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

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