

MATERIAL SAFETY DATA SHEET

IDENTITY								
Bovine Pili Shield + C – Ba	cterin	in Product # 246, 247						
Section I	_							
Manufacturer's Name			Emergency Telephone Number					
Novartis Animal Vaccines, Inc.		CHEMTREC - U.S. 800-424-9300						
		nternat		27-3887 (Collect)				
Address (Number, Street, City, State, and Zip Code)		Telephone Number for Information						
1447 1401 0		(712) 477-2811 Date Prepared Revised Date: June 3, 2003						
1447 140th Street			February 1, 2000					
Lanchused IA 51241 0779			Signature of Preparer (optional)					
Larchwood, IA 51241-9778			organical of Frequency (optional)					
Section II - Hazardous Ingredients/Identity Information								
Hazardous Components (Specific Chemical Identity; C	Commo	n Name(CGIH Other li				
			PEL TVL Recommended (optional)					
Thimerosal (merthiolate) $0.01 \text{ mg of Hg/m}^3 \leq$								
Thimerosal is an organomercury compound								
Timherosar is an organomercury compound	•							
Formaldehyde		$0.75 \text{ ppm} 0.3 \text{ ppm} \qquad \leq 0.5$						
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Section III - Physical/Chemical Characteristic	es							
Boiling Point	NA	Specific Gravity (H ₂ O = 1)			NA			
				_				
Vapor Pressure (mm Hg.)	NA		Melting Point		NA			
, apor 1 resoure (mm 11g.)					1111			
Vapor Density (AIR = 1)	NA		Evaporation Rate		NA			
, upor Bonotty (Fine 1)			(Butyl Acetate = 1)					
Solubility in Water			(Butyllicetaile 1)					
Yes								
Appearance and Odor								
Opaque liquid								
Section IV - Fire and Explosion Hazard Data								
Flash Point (Method Used)		Flam	mable 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								

Section V - Reactivi	ty Data							
Stability	Unstable		Conditions to Avo	bid Thimerosal will decompose with heat.				
<u> </u>	Stable	X						
Incompatibility (Materi	als to Avoid) None	<u> </u>						
Hazardous Decompositi			on monoxide, or	carbon diovide				
Hazardous Decomposit		ury, caro		Carbon dioxide				
Hazardous Polymerization	May Occur		Conditions to Avo	oid None				
	Will Not Occur	X						
Section VI - Health Hazard Data								
Route(s) of Entry:	Inhalation?		Skin?	Ingestion?				
	Yes		Y	Yes Yes				
Health Hazards (Acute								
The product may b	e irritating in the case	of skin o	r eye contact. The	himerosal is a toxic compound.				
Carcinogenicity:	NPT? Ye	s l	IARC Monographs?	Yes OSHA Regulated? Yes				
				with plenty of water. If the product is				
			a physician. In c	ease of accidental injection, wash the				
puncture site and s	ee a physician immedia	ately.						
	itions for Safe Handling		!					
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.								
Clean up the spill v	with absorbent material	i, and aft	erwards, wash th	ne site thoroughly with water.				
Waste Disposal Method								
Dispose in accordance with all applicable federal, state and local environmental regulations.								
	n in Handling and Storing							
	*	e contain	er closed when s	stored, and shake well before using.				
Other Precautions N/A								
Section VIII - Conti	rol Measures							
Respiratory Protection								
	ridge respirator for larg	ge spills						
Ventilation	Local Exhaust No			Special NA				
	Mechanical (General)	Yes		Other NA				
Protective Gloves			Eye Protect					
	Vinyl or nitrile 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: 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.