



MATERIAL SAFETY DATA SHEET

IDENTITY				
Arsenal 4.1		Modified Live Vaccine		Product # 250, 258
Section I				
Manufacturer's Name Novartis Animal Vaccines, Inc.		Emergency Telephone Number 800-454-3424		
Address (Number, Street, City, State, and Zip Code) 1447 140th Street Larchwood, IA 51241-9778		Telephone Number for Information 800-843-3386 Date Prepared: July 8, 2003 Date Revised: February 12, 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)
This product contains modified live IBR, BVD, PI3 & BRSV				
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.			
Carcinogenicity:	NPT? No	IARC Monographs? No	OSHA Regulated? No
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 (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

None

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.
