Product Identifier: Bimectin Pour-On DIN #: 02283123

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION AND USE						
MANUFACTURER'S NAME:	BIMEDA, INC.		SUPPLIER'S NAME:		BIMEDA, INC.	
STREET ADDRESS:	291 FOREST PRAIRIE ROAD		STREET ADDRESS:		291 FOREST PRAIRIE ROAD	
CITY AND PROVINCE:	LE SUEUR, MINNESOTA		CITY AND PROVINCE:		LE SUEUR, MINNESOTA	
POSTAL CODE:	56058		POSTAL CODE:		56058	
TELEPHONE #	507-665-3316		TELEPHONE # 507-6		507-665-3316	
CHEMICAL NAME: Ivermectin		CHEMICAL FAMILY: Antipara	arasitic CHEMICAL FORMULA:B1a(C48H74014; B1b(C47H72		RMULA:B1a(C48H74014; B1b(C47H72014)	
PRODUCT USE:	Cattle					

SECTION 2 – HAZARDOUS INGREDIENTS					
HAZARDOUS INGREDIENTS % (W/W) CAS NUMBER PRODUCT IDENTIFICATION NUMBER (PIN)					
Ivermectin	0.5 %	70288-86-7			
Isopropyl Alcohol	80.0 %	67-63-0	UN1219		

SECTION 3 – PHYSICAL DATA					
PHYSICAL STATE:		ODOUR AND APPEARANCE:		ODOUR THRESHOLD (ppm):	
Liquid		Clear blue solution. Isopropyl			
		Alcohol odor is present.			
VAPOR PRESSURE at 20°C (68°F)(mm Hg):		VAPOR DENSITY (Air = 1):		EVAPORATION RATE (Ether = 1):	
0.784 hPa (1mm Hg)	0.784 hPa (1mm Hg)			N/A	
BOILING POINT (DEG.C):	BOILING POINT (DEG.C):		POINT (DEG. C):	IGNITION TEMPERATURE:	
180.5°F / 82.5°C		-88°C/-126	°F	425.0°C (797°F)	
pH (100%): SPECIFIC GRAVITY		AVITY	SOLUBILITY IN WATER:	FLASHPOINT:	
(H2O = 1):				12°C/54°F	
N/A 0.78-0.79 at 20°C/68°F		Not Miscible			

OSION DATA				
onen flames, sparks, any source of heat or in	anition, and smoking			
e, sand, extinguishing powder. Water is an unsc	illable extinguishing agent.			
Firefighters should wear self-contained breathing apparatus and full protective equipment.				
SPECIAL HAZARDS CAUSED BY MATERIAL, ITS PRODUCT OF COMBUSTION OR RESULTING GASES: Isopropanol alcohol will not burn or ignite under normal usage, but it is a dangerous fire hazard and a moderate explosion hazard when exposed to heat, flames or oxidizers. Vapors are heavier than air and may travel a considerable distance to an ignition source and flashback.				
UPPER FLAMMABLE LIMIT (% BY VOLUME): N/A	LOWER FLAMMABLE LIMIT (% BY VOLUME): 2.5% v/v			
	open flames, sparks, any source of heat or ige, sand, extinguishing powder. Water is an unsuesthing apparatus and full protective equipment. RIAL, ITS PRODUCT OF COMBUSTION OR REt it is a dangerous fire hazard and a moderate expan air and may travel a considerable distance to UPPER FLAMMABLE LIMIT (% BY VOLUME):			

AUTOIGNITION TEMPERATURE (DEG. C): Product is not self-igniting	HAZARDOUS COMBUSTION PRODUCTS Carbon Oxides, and other irritant gases, which may include unburned alcohol and toxic constituents.
SENSTIVITY TO IMPACT: Non-Sensitive. Stable material.	SENSITIVITY TO STATIC DISCHARGE: Product will not accumulate static charge since it has a high electrical conductivity. Mixtures of vapour and air at concentrations in the flammable range may be ignited by a static discharge or sufficient energy.

SECTION 5 – REACTIVITY DATA

CHEMICAL STABILITY – (IF NO, UNDER WHICH CONDITIONS?)

Stable

INCOMPATIBILITY WITH OTHER SUBSTANCES (IF YES, WHICH ONES?)

No dangerous reactions known.

REACTIVITY, AND UNDER WHAT CONDITIONS?

May emit toxic fumes under fire conditions. (NO_x , CO_x , CO). Do not breathe fumes. Vapors pose an explosion risk.

HAZARDOUS DECOMPOSITION PRODUCTS:

Toxic Fumes of: NO_x, CO_x, and CO. May emit toxic fumes under fire conditions. In case of fire do not breathe fumes.

SECTION 6 - TO	SECTION 6 – TOXICOLOGICAL PROPERTIES					
Acute Toxicity						
Isopropanol Oral Dermal Inhalative	LD50 LD50 LC50/4 h	4570 mg/kg (rat) 13400 mg/kg (rabbit) 30mg/1 (rat)				
Ivermectin						
Oral	LD Oral LD50	>15mg/kg (adult human) ~80mg/kg (dogs) 25mg/kg (mouse) 50mg/kg (rat) >24mg/kg (Rhesus monkey)				
Dermal	LD50	406mg/kg (rabbit) >660mg/kg (rat)				
Inhalative	LC50/4h LD Subcutaneous LD50 Intraperitoneal LD50 Subcutaneous	>0.4mg/kg (rat) >1.6mg/kg (adult human) 55mg/kg (rat) ~10mg/kg (juvenile dog)				
Sensitizing Capability: None Known						
Reproductive Effects:	None Known					

SECTION 7 – PREVENTATIVE MEASURES						
PERSONAL PROTECTIVE EQUIPMENT:	PERSONAL PROTECTIVE EQUIPMENT:					
GLOVES (Specify):	RESPIRATOR (Specify):	EYES (Specify):				
Not required under normal conditions	Use suitable respiratory protective	Tightly sealed goggles				
of use.	device when aerosol or mist is formed.					
FOOTWEAR (Specify):	CLOTHING (Specify):	OTHER (Specify):				
Rubber Boots	Impervious protective clothing.	Do not eat, drink, smoke or inhale.				
		Do not store food in working area.				
	LEAK AND SPILL PROCEDURES: Wear protective clothing, gloves and face/eye protection. Provide adequate ventilation. Absorb					
	with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Do not flush with water or aqueous cleansing					
agents. Do not allow product to reach sewage system or any other water course.						
WASTE DISPOSAL: The product and it's container must be disposed of as hazardous waste as per local, state or federal regulations.						
STORAGE AND HANDLING REQUIREMENTS: Store in cool, dry place in tightly closed containers. Handle with care. Avoid						
jolting and impact. Use only in well ventilated areas. Wash hands thoroughly after handling. Keep away from foodstuffs						
and beverages. Immediately remove all soiled and contaminated clothing. Avoid contact with eyes and skin.						
Recommended storage temperature: <	30°C (86°F)					

SECTION	SECTION 8 – FIRST AID MEASURES:				
General:	Involve a doctor immediately.				
Eyes:	Rinse opened eye for a minimum of 15 minutes under running water. Get medical attention immediately.				
Skin:	Immediately wash with water and soap and rinse thoroughly. If skin irritation occurs, consult a doctor.				
Ingestion:	Do not induce vomiting; call a physician or Poison Control Center.				
Inhalation:	Remove person to fresh air. Seek immediate medical advice.				
Prolonged	Prolonged contact may cause skin irritation and/or drying and cracking of the skin, nausea, headache and				
Contact:	mild narcosis. If ingested, decreased activity, slow rate of breathing, dilation of the pupils, muscle tremors				
and in-coordination may occur.					
ROUTE OF ENTRY: Inhalation, Skin, Eyes, Ingestion					
EFFECTS OF CHRONIC EXPOSURE TO MATERIAL: No sensitization effects known.					

SECTION 9 – TRANSPORT INFORMATION					
DOT Regulations					
Hazard Class:	Identification Number:	Packaging Group:	Proper Shipping Name (technical name):	Label:	
3	UN1219	II	Isopropanol (Isopropyl Alcohol)	3	
Land Transport ADR/RID (Cross-border)					
ADR/RID Class:	Danger Code: (Kemler):	<u>UN-Number</u>	Packaging Group	Proper Shipping Name:	
3 Flammable Liquids	33	1219	II	1219 Isopropanol (Isopropyl Alcohol)	
US Emergency Response Number Chemtrech 1-800-424-9300					
Canadian Emergency Response Number Chemtrech 1-800-424-9300					

SECTION 10 – PREPARATION DATA					
DATE:	August 9, 2010	TELEPHONE NUMBER:	519-654-8000		
DATE REVISED:	May 2014				

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond the control of the supplier, it is assumed that user of this material has been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this form. If user requires independent information on ingredients in this or any other material, we recommend contact supplier.