

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION AND USE			
MANUFACTURER'S NAME:	BIMEDA-MTC ANIMAL HEALTH INC.	SUPPLIER'S NAME:	BIMEDA-MTC ANIMAL HEALTH INC.
STREET ADDRESS:	420 BEAVERDALE ROAD	STREET ADDRESS:	420 BEAVERDALE ROAD
CITY AND PROVINCE:	CAMBRIDGE, ONTARIO	CITY AND PROVINCE:	CAMBRIDGE, ONTARIO
POSTAL CODE:	N3C 2W4	POSTAL CODE:	N3C 2W4
TELEPHONE #	519-654-8000	TELEPHONE #	519-654-8000
EMERGENCY RESPONSE:	CHEMTREC	TELEPHONE #	1-800-424-9300
PRODUCT CODE #:	1BIM017, 1BIM018, 1BIM020. 250 ml, 500 ml and 1000 ml	TRADE NAME:	IVERMECTIN

SECTION 2 – COMPOSITION			
Chemical characte	erization		
Description:	Mixture: Consisting of the fol	lowing components.	
Components:	-		
57-55-6	Propylene Glycol		59.0%
5464-28-8	Glycerol Formal	Warning: 2.6/4	40.0%
70288-86-7	Ivermectin Comp. B1a Comp. B1b	T, N; N 20/21-25-50 Danger: 3.1.0/2, 3.1.D/3, 3.1.I/3	1.0%
		Warning: 🍄 4.1.A/1	

SECTION 3 – HAZARD IDENTIFICATION

Hazard description: Not applicable.

Classification system:

The classification was made according to the latest editions of international substances lists, and from company and regulatory data.

NFPA ratings (scale 0-4)



Health = 0 Fire = 0 Reactivity = 0

HMIS ratings (scale 0 - 4)



Health = 0 Fire = 0 Reactivity = 0

GHS label elements

Warning

2.6/4 - Combustible liquid.



Prevention:	Keep away from heat/sparks/open flames/hot surfaces No smoking. Wear protective gloves/protective clothing/eye protection/face protection.
Response:	In case of fire: Use for extinction: CO2, powder or water spray.
Storage:	Store in a well-ventilated place. Keep cool.
Disposal:	Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 4 – FIRST AID MEASURES		
General information:	No special measures required.	
After inhalation:	Not an expected route of entry.	
	Seek immediate medical advice.	
After skin contact:	Immediately wash with water and soap and rinse thoroughly.	
After eye contact:	Rinse opened eye for a minimum of 15 minutes under running water. Get	
	medical attention immediately.	
After swallowing:	Immediately call a doctor.	
After self injection		
Information for doctor:	Direct contact with the eye can cause irritation. Ivermectin is non-irritating to the	
	skin in animal studies.	

SECTION 5 – FIRE FIGHTING MEASURES		
Suitable extinguishing agents: Use water spray or all purpose dry chemical.		
Protective equipment:	Fire fighters should wear self-contained breathing apparatus and full protective	
	equipment.	

SECTION 6 – ACCIDENTIAL RELEASE MEASURES		
Person-related safety precautions:	Not required.	
Measures for environmental protection:	Do not allow product to reach sewage system or any water course.	
Measures for cleaning/collection:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to Section 13.	
Additional information:	No dangerous substances are released.	

SECTION 7 – HANDING AND STORAGE		
Handling:		
Information for safe handling:	Store in cool, dry place in tightly closed containers. Handle with care. Avoid jolting and impact.	
Information about protection against explosions and fires:	No special measures required.	
Storage:		
Requirements to be met by storerooms and receptacles:	Store only in the original container.	
Information about storage in on common storage facility:	Not required.	
Further information about storage conditions:	Store in a cool dry, well ventilated place.	
Recommended storage temperature:	<30°C (86°F)	



SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION		
Components with limit values that	The product does not contain any relevant quantities of materials with critical	
require monitoring at the workplace:	values that have to be monitored at the workplace.	
Personal protective equipment:		
General protective and hygienic	Wash hands before breaks and at the end of work.	
measures:	Avoid contact with the eyes and skin.	
	Do not eat, drink, smoke or inhale.	
	Do not store food in the working area.	
Protection of hands:	Rubber or other impervious gloves	
Penetration time of glove material	The exact break through time has to be found out by the manufacturer of the	
	protective gloves and has to be observed.	
Eye protection:	Safety goggles.	

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES		
General Information:		
Form:	Liquid	
Color:	Colorless to Yellow	
Odor:	Practically odorless	
Change in condition:		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	185°C (365°F)	
Flash point:	81°C (178°F)	
Ignition temperature:	371.0°C (700°F)	
Auto igniting:	Product is not self-igniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	2.6 Vol %	
Upper:	12.6 Vol %	
Vapor pressure at 20° C (68°F):	0.1 hPa	
Specific Gravity:	Not determined.	
Solubility in / Miscibility with		
Water:	Not established.	

SECTION 10 – STABILITY AND REACTIVITY		
Dangerous reactions:	Dangerous reactions: No dangerous reactions known.	
Dangerous products of Carbon monoxide and carbon dioxide.		
decomposition:		



SECTION 11 – TOXICOLOGICAL INFORMATION			
Acute toxicity:			
LD/LC50 values that are releva	nt for classification:		
70288-86-7 Ivermectin Comp. I	31a		
Comp. B1b			
Oral	LD Oral	>15 mg/kg (adult human)	
	LD50	~80 mg/kg (dog)	
		25 mg/kg (mouse)	
		50 mg/kg (rat)	
		>24 MG/KG (Rhesus monkey)	
Dermal	LD50	406 mg/kg (rabbit)	
		>660 mg/kg (rat)	
Inhalation	LC50/4h	>0.4 mg/kg (rat)	
	LD Subcutaneous	>1.6 mg/kg (adult human)	
	LD50	55 mg/kg (rat)	
	LD50 Subcutaneous	~10 mg/kg (juvenile dog)	
Primary irritant effect:			
On the skin:	No irritating effect known.		
On the eye:	No irritating effect known.		
Sensitization:	No sensitizing effects known.		
Additional toxicological	The product is not subject to cla	The product is not subject to classification according to internally approved	
information:		calculation methods for preparations.	
	When used and handled accord	When used and handled according to specifications, the product does not have	
	any harmful effects according to	any harmful effects according to our experience and the information provided to	
	us.	us.	

SECTION 12 – ECOLOGICAL	INFORMATION
Ecological effects.	
Aquatic toxicity:	
70288-86-7 Ivermectin Comp. B1a	
Comp. B1b	
LC50/48 hours	0.025 ppb (Daphnia magna)
LC50/96 hours	.3 μg/1 (Rainbow Trout)
General notes:	Water hazard class 2 (Self-assessment): Hazardous for water.
	Do not allow any volumes of product to reach ground water, water source or
	sewage system.
	Danger to drinking water if even small quantities leak into the ground.

SECTION 13 – DISPOSAL CONSIDERATIONS			
Product:			
Recommendation:	Disposal must be made according to official regulations.		
Uncleaned packaging:			
Recommendation:	Disposal must be made according to official regulations.		



SECTION 14 – TRANSPORT INFORMATION				
DOT regulations:				
Hazard class:	Not Regulated			
Land transport ADR/RID (Cross-border):				
ADR/RID class:	9 Miscellaneous dangerous substances and articles			
UN-Number:	3082			
Packaging group:	III			
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (ivermectin)			
Maritime transport IMDG:				
IMDG Class:	9			
UN Number:	3082			
Packaging group:				
Marine pollutant:	Yes			
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (ivermectin)			
Air transport ICAO-TI and IATA-DGF	Air transport ICAO-TI and IATA-DGR:			
ICAO/IATA Class:	9			
UN/ID Number:	3082			
Packaging group:	III			
Proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (ivermectin)			
UN "Model Regulation": -				

SECTION 15 – REGULATIONS				
SARA				
Section 355 (extremely hazardous	None of the ingredients are listed.			
substances):				
Section 313 (Specific toxic	None of the ingredients are listed.			
chemical listings:				
TSCA (Toxic Substances Control	57-55-6			
Act):	Propylene Glycol			
CA Proposition 65				
Chemicals know to cause cancer:	None of the ingredients are listed.			
Chemicals known to cause	None of the ingredients are listed.			
reproductive toxicity for females:				
Chemicals known to cause	None of the ingredients are listed.			
reproductive toxicity for males:				
Chemicals known to cause	None of the ingredients are listed.			
developmental toxicity:				
Carcinogenesis potential categories				
EPA (Environmental Protection	None of the ingredients are listed.			
Agency:				
IARC (International Agency for	None of the ingredients are listed.			
Research on Cancer):				
NTP (National Toxicology	None of the ingredients are listed.			
Program:				
TLV (Threshold Limit Value	None of the ingredients are listed.			
established by ACGIH):				
MAK (German Maximum	None of the ingredients are listed.			
Workplace Concentration):				
NIOSH-Ca (National Institute for	None of the ingredients are listed.			
Occupational Safety and Health):				



OSHA-CA (Occupational Safety &	None of the ingredients are listed.		
Health Administration):			
Product related hazard	Observe the general safety regulations when handling chemicals.		
information:	The product is not subject to identification regulations according to directives on		
	hazardous materials.		
Safety phrases:	Do not empty into drains, dispose of this material and its container at hazardous		
	or special waste collection point.		
Water hazard class:	Water hazard class 2 (Self-assessment): Hazardous for water.		

SECTION 16 – PREPARATION DATA						
DATE:	October, 2011	TELEPHONE NUMBER:	519-654-			
			8000			
DATE REVISED:						

SECTION 17 – OTHER INFORMATION

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.