



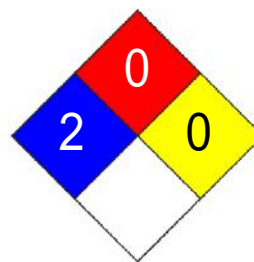
MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Vibiomed Booster
CAS # Mixture
Product Use Livestock drinking water medication
Manufacturer Bio Agri Mix LP
P.O. Box 399
Mitchell, ON N0K 1N0 CA
Phone: (519) 348-9865
Emergency Phone: 1-613-996-6666 (CANUTEC)
Supplier Medprodex
61 Malcolm Road
Guelph, ON N1K 1A7
Phone: (519) 822-5333
Fax: (519) 822-3326

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	* 2
Flammability	0
Physical Hazard	0
Personal Protection	B



2. Hazards Identification

Emergency Overview WARNING
EYE AND SKIN IRRITANT.
May cause sensitisation by inhalation and skin contact.
Contains potential teratogens.

Potential short term health effects

Routes of exposure Eye, Skin contact, Skin absorption, Inhalation, Ingestion.

Eyes May cause irritation.

Skin Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals. May be absorbed through the skin.

Inhalation Inhalation of dusts may produce respiratory irritation and may cause allergic respiratory sensitization reactions.

Ingestion May cause stomach distress, nausea or vomiting.

Target organs Eyes. Skin. Respiratory system.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
Vitamin B12	68-19-9	0 - 0.1
Vitamin D3	67-97-0	0.1 - 1
Riboflavin	83-88-5	0.1 - 1
Pyridoxine	65-23-6	0.1 - 1
Menadion Sodium Bisulfite	58-27-5	0.1 - 1
Calcium D-pantothenic acid	137-08-6	0.5 - 1.5
Vitamin E	59-02-9	1 - 5
Vitamin A500 powder	68-26-8	1 - 5
Penicillin G Potassium	113-98-4	1 - 5
Niacinamide	98-92-0	1 - 5
Streptomycin sulfate	3810-74-0	10 - 30
Composition comments	Active ingredients are listed above.	

4. First Aid Measures

First aid procedures

Eye contact	Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.
Skin contact	Brush away excess of dry material. Flush with water. Obtain medical attention if irritation persists.
Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Ingestion	Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.

Notes to physician

Symptoms may be delayed.

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire-fighting Measures

Flammable properties	Not flammable by WHMIS criteria.
Extinguishing media	
Suitable extinguishing media	Dry chemical. Water spray. Foam. Carbon dioxide.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Not available
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of sulphur. Hydrogen chloride.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Methods for containment	Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

7. Handling and Storage

Handling	Use good industrial hygiene practices in handling this material. Avoid dust formation.
Storage	Keep out of reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure Controls / Personal Protection

Exposure limit values	
Ingredient(s)	Exposure limit values
Calcium D-pantothenic acid	ACGIH-TLV Not established
Menadion Sodium Bisulfite	ACGIH-TLV Not established
Niacinamide	ACGIH-TLV Not established
Penicillin G Potassium	ACGIH-TLV Not established
Pyridoxine	ACGIH-TLV Not established
Riboflavin	ACGIH-TLV Not established
Streptomycin sulfate	ACGIH-TLV Not established
Vitamin A500 powder	ACGIH-TLV Not established
Vitamin B12	ACGIH-TLV Not established
Vitamin D3	ACGIH-TLV Not established
Vitamin E	ACGIH-TLV Not established
Engineering controls	Use only under good ventilation conditions or with respiratory protection.
Personal protective equipment	
Eye/Face protection	Safety glasses
Hand protection	Rubber gloves. Confirm with a reputable supplier first.
Skin and body protection	As required by employer code.
Respiratory protection	If ventilation is not adequate use dust mask or gas respirators with dust filters.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical & Chemical Properties

Appearance	Powder
Colour	Yellow/Orange
Form	powder
Odour	Not available
Odour threshold	Not available
Physical state	Solid
pH	5 (1% solution)
Freezing point	Not available
Boiling point	Not available
Flash point	Not available
Evaporation Rate	Not available
Flammability limits in air, lower, % by volume	Not applicable
Flammability Limits in Air, Upper, % by Volume	Not applicable
Vapour pressure	Not available
Vapour density	Not available
Specific gravity	Not available
Octanol/water coefficient	Not available
Auto-ignition temperature	Not available

10. Chemical Stability & Reactivity Information

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Acids. Oxidizers. Caustics.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Oxides of sulphur. Hydrogen chloride.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Calcium D-pantothenic acid	Not available
Menadion Sodium Bisulfite	Not available
Niacinamide	Not available
Penicillin G Potassium	382 mg/kg guinea pig
Pyridoxine	Not available
Riboflavin	Not available
Streptomycin sulfate	Not available
Vitamin A500 powder	Not available
Vitamin B12	Not available
Vitamin D3	Not available
Vitamin E	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Calcium D-pantothenic acid	10000.1 mg/kg rat
Menadion Sodium Bisulfite	500 mg/kg mouse
Niacinamide	3500 mg/kg rat
Penicillin G Potassium	6257 mg/kg mouse; 6700 mg/kg rat
Pyridoxine	4000 mg/kg rat
Riboflavin	10000 mg/kg rat
Streptomycin sulfate	430 mg/kg rat
Vitamin A500 powder	2000 mg/kg rat
Vitamin B12	> 5000 mg/kg mouse
Vitamin D3	42 mg/kg rat
Vitamin E	Not available

Effects of acute exposure

Eye	May cause irritation.
Skin	Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals. May be absorbed through the skin.
Inhalation	Inhalation of dusts may produce respiratory irritation and may cause allergic respiratory sensitization reactions.
Ingestion	May cause stomach distress, nausea or vomiting.
Sensitisation	May cause sensitisation of susceptible persons by skin contact or by inhalation of dust.
Chronic effects	Non-hazardous by WHMIS criteria.
Carcinogenicity	Non-hazardous by WHMIS criteria.
Mutagenicity	Non-hazardous by WHMIS criteria.
Reproductive effects	Non-hazardous by WHMIS criteria.
Teratogenicity	Contains potential teratogens.

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental concerns.

Ecotoxicity - Freshwater Fish Species Data

Penicillin G Potassium 113-98-4 96 Hr LC50 Leuciscus idus melanotus: >500 mg/L [static]

Ecotoxicity - Water Flea Data

Penicillin G Potassium 113-98-4 48 Hr EC50 Daphnia magna: >1000 mg/L

Environmental effects	Not available
Aquatic toxicity	Not available
Persistence and degradability	Not available
Bioaccumulation/accumulation	Not available
Partition coefficient	Not available
Mobility in environmental media	Not available
Chemical fate information	Not available

13. Disposal Considerations

Waste codes	Not available
Disposal instructions	Review federal, provincial, and local government requirements prior to disposal.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS classification

Exempt - Registered product - (DIN 01918435)

Inventory Status

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer

Information contained herein 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 control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. 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 document.

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Prepared by

Dell Tech Laboratories Ltd. (519) 858-5021