


SAFETY DATA SHEET

Bovilis MH + IBR[®]

Section 1: Identification of the Substance and Supplier

Product name	Bovilis MH + IBR
Recommended use	Veterinary vaccine used for protection against bovine herpes and Bovine Rhinotracheitis in cattle.
Company details	Schering-Plough Animal Health Ltd (trading as MSD Animal Health) 33 Whakatiki Street, Upper Hutt Phone: 0800 800 543 Fax: 0800 808 100 Website: www.msd-animal-health.co.nz Hours: 8 am – 5 pm, Mon – Fri
Emergency telephone	0800 764 766 (0800 POISON) 24 hours human health 0800 243 622 (0800 CHEMCALL) 24 hours
Date of preparation	October 2018

Section 2: Hazards Identification

Hazard classifications	6.5B: Contact sensitiser
GHS Pictogram:	
Signal word	Warning
Hazard statement	H317: May cause an allergic skin reaction.
Prevention statement	P103: Read label before use. P261: Avoid breathing mist. P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear protective gloves.
Response statement	P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P333 + P313: If skin irritation or rash occurs: Get medical advice/attention. P321: See first aid instruction on the label of the product. P363: Wash contaminated clothing before reuse.
Disposal	P501: Dispose of product, packaging and waste at an approved landfill or other approved facility.

Section 3: Composition/Information on Ingredients

Chemical name	CAS number	Concentration
Inactivated <i>Mannheimia haemolytica</i> isolate Leucotoxin producing strain	-	Varies
Inactivated <i>Mannheimia haemolytica</i> isolate	-	Varies
Inactivated <i>Infectious Bovine Rhinotracheitis</i> (IBR) strain	-	Varies
Thiomersal (Preservative)	54-64-8	<1%

Section 4: First Aid Measures**Necessary first aid measures**

ACCIDENTAL SELF-INJECTION Obtain medical attention - show this SDS. Accidental self-injection may lead to an inflammatory response and medical advice should be sought on the management of deep injections, particularly those near a joint or associated with bruising. If possible the application of gentle squeezing pressure with absorbent material (e.g. facial tissues) at the injection site will swab up unabsorbed vaccine. Strong squeezing of the site should be avoided. The damaged area should be thoroughly cleansed and a topical antiseptic applied.

SKIN CONTACT In case of skin contact, while wearing protective gloves, carefully remove any contaminated clothing, including shoes, and wash skin thoroughly with soap and water. Apply alcohol-based skin disinfectant. If irritation or symptoms occur or persist, consult a doctor.

EYE CONTACT In case of eye contact, immediately rinse eyes thoroughly with plenty of water. If wearing contact lenses, remove only after initial rinse, and continue rinsing eyes for at least 15 minutes. If irritation occurs or persists, consult a doctor.

INGESTION Rinse mouth and drink a glass of water. Not harmful by ingestion.

INHALATION Remove to fresh air. If any trouble breathing, get immediate medical attention. Administer artificial respiration if breathing has ceased. If irritation or symptoms occur or persist, consult a doctor.

Required instructions

For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor.

Notes for medical personnel

Accidental self-injection: Treat symptomatically. Some risk of hypersensitivity from injection. Contains safety tested inactivated bacterial toxins. Contamination of the needle must be considered.

Workplace facilities

Emergency showers and eyewashes may be warranted depending on quantity and type of use.

Section 5: Fire Fighting Measures

Type of hazard	Not classified as flammable
Fire hazard properties	Not applicable
Regulatory requirements	Not applicable
Extinguishing media and methods	Carbon dioxide (CO ₂), extinguishing powder or water spray
Hazchem code	Not applicable
Recommended protective clothing	Wear self-contained breathing apparatus (SCBA) plus protective gloves.

Section 6: Accidental Release Measures

Personal Precautions	Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Environmental Precautions	Prevent spilled material from flowing onto adjacent land or into streams, ponds, or lakes. Avoid release to the environment.
Emergency procedures	This product is sold in small packages, and the accidental release from one of these is not usually a cause for concern. In the event of a major spill, wear chemical resistant gloves and overalls, facemask or goggles. Prevent further spillage. Adsorb spilled product and place in sealable container for disposal. Wash down affected area with water plus detergent. Absorb and collect washings and place in the same sealable container for disposal. Seek advice from the local authority regarding disposal.

Section 7: Handling and Storage

Precautions for safe handling	Avoid contact with skin, eyes, and mucosa. Keep containers adequately sealed during material transfer, transport, or when not in use. See Section 8 (Exposure Controls) for additional guidance.
Regulatory requirements	Emergency Plan required where quantities greater than 1000L are present.
Handling practices	Avoid contact with skin. Keep containers adequately sealed during material transfer, transport, or when not in use.
Approved handlers	Not required
Conditions for safe storage	Store in original container. Keep out of reach of children.
Store site requirements	Store away from light between 2 and 8°C. DO NOT FREEZE.
Packaging	Not specified

Section 8: Exposure Control/Personal Protection

Workplace exposure standards	Not applicable
Application in the workplace	Ensure adequate ventilation. Keep container sealed when not in use.
Exposure standards outside the workplace	No TEL is set for this substance at this time No EEL – not applicable
Personal protection	Wear chemical resistant gloves, facemask or goggles.
Engineering controls	The health hazard risks of handling this material are dependent on many factors, including physical form, duration and frequency of process or task, and effectiveness of engineering controls. Site-specific risk assessments should be conducted to determine the feasibility and the appropriateness of all exposure control measures. Exposure controls for normal operating or routine procedures follow a tiered strategy. Engineering controls are the preferred means of long-term or permanent exposure control. If engineering controls are not feasible, appropriate use of personal protective equipment (PPE) may be considered as alternative control measures. Exposure controls for non-routine operations must be evaluated and addressed as part of the site-specific risk assessment.

Section 9: Physical and Chemical Properties

Appearance	White or off-white suspension
Odour	No data; expected to be almost odourless
Odour threshold	No information available
pH	6.8 – 7.4
Boiling Point	Approximately 100°C at 100kPa
Melting/freezing point	Approximately 0°C
Vapour Pressure	2.37 kPa at 20°C (water vapour pressure)
Flash point	Not flammable
Flammability (solid, gas)	Not flammable
Upper/lower flammability or explosive limits	Not flammable
Autoignition temperature	Not applicable – not flammable
Specific Gravity	Approximately 1.0
Solubility (H₂O)	Completely soluble in water
Partition coefficient: n-octanol/water	No information available
Decomposition temperature	No information available
Kinematic viscosity	No information available

Section 10: Stability and Reactivity

Stability of the substance	Stable under recommended storage conditions.
Conditions to avoid	Avoid high temperatures and exposure to light.
Material to avoid	Avoid food products
Hazardous decomposition products	No dangerous decomposition is expected if used according to manufacturer's specifications.

Section 11: Toxicological Information

Effects for individual ingredients only

Acute toxicity	Thiomersal: (Oral) LD50 40mg/kg/bw (Rat) [EPA NZ]
Aspiration hazard	No information available
Respiratory irritation	No information available
Skin corrosion/irritation	No information available
Serious eye damage/ irritation	No information available
Respiratory or skin sensitisation	Thiomersal: Skin sensitiser [All references from NTP]
Germ cell mutagenicity	No information available
Carcinogenicity	No information available
Reproductive toxicity	No information available
Specific organ toxicity	No information available
Narcotic effects	No information available

Section 12: Environmental Information

Effects for individual ingredients only

Aquatic	Thiomersal: (Lake trout) 48-hr LC50 2.13mg/L
Terrestrial	Thiomersal: (Rat) LD50 40mg/kg/bw [EPA NZ]
Soil	Thiomersal: A benchmark of 0.1 ppm was established for Hg based on the work of Abbasi and Soni (1983). A safety factor of 5 was applied to the 0.5 ppm LOEC because it caused a 65% reduction in earthworm survival. Confidence in this benchmark is low because of the limited amount of data. [R. A. Efrogmson, M. E. Will, G. W. Suter II Oak Ridge National Laboratory - Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Process: 1997 Revision]
Persistence and degradability	No information available
Bioaccumulative	No information available
Mobility in soil	No information available
Other adverse effects	No information available

Bovilis MH + IBR®**Section 13: Disposal Considerations**

Disposal information	Disposal Dispose of unused contents in a suitable landfill. Container Disposal Dispose of empty bottles by puncturing and burying in a suitable landfill. Do NOT burn.
Reference	Current version of NZS 8409 Management of Agrichemicals

Section 14: Transport Information

UN Number	Not applicable
UN proper shipping name	Not applicable
UN dangerous goods class and subsidiary risk	Not applicable
UN Packaging Group	Not applicable
Environmental hazards	Not applicable
Special precautions when transporting the substance	Maintain temperature between 2 and 8°C. DO NOT FREEZE.

Section 15: Regulatory Information

Regulatory status	EPA Approval Code: HSR100757 For full listings of controls see www.epa.govt.nz ACVM registration number: A011518. For conditions of registration see www.foodsafety.govt.nz
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RESTRICTED VETERINARY MEDICINE**Section 16: Other Information**

Additional information	Bovilis MH + IBR is a registered trademark.
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