

SAFETY DATA SHEET

Multine[®] 5 in 1 Selenised

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Section 1: Identification of the Substance and Supplier

Product name	Multine 5 in 1 Selenised
Recommended use	Clostridial vaccine for sheep and goats.
Company details	Coopers, 33 Whakatiki Street, Upper Hutt Phone: 0800 800 543 Fax: 0800 808 100 Website: www.coopersonline.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	September 2011

Section 2: Hazards Identification

Hazard classifications	6.1E, 6.5B, 9.1C, 9.2C
Priority identifiers	WARNING – Keep out of reach of children
Secondary identifier	6.1E May be harmful if swallowed, inhaled or absorbed through the skin 6.5B May cause an allergic skin reaction 9.1C Harmful to aquatic organisms with long lasting effects 9.2C Harmful to the soil environment

Section 3: Composition/Information on Ingredients

Chemical name	CAS number	Concentration
<i>Clostridium chauvoei</i> whole cell culture (inactivated)	-	Varies
<i>C. novyi</i> Type B toxoid (inactivated)	-	Varies
<i>C. perfringens</i> Type D toxoid (inactivated)	-	Varies
<i>C. septicum</i> toxoid (inactivated)	-	Varies
<i>C. tetani</i> toxoid (inactivated)	-	Varies
Sodium selenate	13410-01-0	<1%
Thiomersal (Preservative)	54-64-8	<1%

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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 While wearing protective gloves, carefully remove any contaminated clothing, including shoes, and wash skin thoroughly with soap and water. If irritation or symptoms occur or persist, consult a doctor.

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. Do not induce vomiting unless under the direction of a qualified medical professional or Poison Control Centre. If symptoms persist, consult a doctor.

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.

Inhalation: remove to fresh air & provide oxygen if breathing is difficult

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 (CO₂), extinguishing powder or water spray.

Hazchem code

Not applicable

Recommended protective clothing

Wear full protective clothing and self-contained breathing apparatus (SCBA).

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Section 6: Accidental Release Measures

Emergency procedures	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. Avoid contamination of any water source or soil with product or empty container.
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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	Signage required where quantities greater than 1,000L are present. Emergency Plan required where quantities greater than 1,000L 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	Schedule 4

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 or EEL are set for this substance at this time.
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.



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Section 9: Physical and Chemical Properties

Appearance	Light brown liquid
Boiling Point	Not determined
Melting/Softening point	Not applicable
Vapour Pressure	Not determined
Specific Gravity	Not determined
Solubility (H ₂ O)	Soluble
Percent Volatiles	Not determined
Evaporation Rate	Not determined

Section 10: Stability and Reactivity

Stability of the substance Stable under normal conditions.

Conditions to avoid Avoid high temperatures

Material to avoid Avoid food products

Hazardous decomposition products Carbon oxides (CO_x).

Section 11: Toxicological Information

Acute effects for individual ingredients only

ORAL	Sodium selenate: LD50 25mg/kg/bw [INCLASS] Sodium selenate: Toxic by inhalation [INCLASS] Thiomersal: LD50 40mg/kg/bw (rat) [ERMANZ]
TEL	No TEL is set for this substance at this time.

Chronic/long term effects for individual ingredients only

Thiomersal has been documented as a sensitiser. [All references from NTP]

Sodium selenate: NOAEL of 0.37mg/kg/bw/day for Hepatotoxicity/ Alimentary system (liver) effects based on [Hayes, W.J., Jr., E.R. Laws, Jr., (eds.). New York, NY: Academic Press, Inc., 1991. 558] [HSDB]

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Section 12: Environmental Information

Effects for individual ingredients only

AQUATIC	Thiomersal: 48-hr LC50 2.13mg/L (lake trout) [ECOTOX]
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. Efroymsen, 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]
EEL	No EEL is set for this substance at this time

Section 13: Disposal Considerations

Disposal information

Disposal

Dispose of unused contents in a suitable landfill.

Container Disposal

Dispose of empty vaxipak by puncturing and burying in a suitable landfill. Do NOT burn.

Reference

Current version of NZS 8409 Management of Agrichemicals

Section 14: Transport Information

Relevant information

Not classified as a dangerous good for transport.

Section 15: Regulatory Information

Regulatory status

ERMA Approval Code: HSR002298
For full listings of controls see www.epa.govt.nz
ACVM Registration No: A0935
For conditions of registration see www.foodsafety.govt.nz

HSNO and ACVM controls

Signage: 1000 Litres
Emergency Plan: 1000 Litres

Section 16: Other Information

Additional information

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