

Safety Data Sheet

Trio[®] Sheep

Revised: 18/08/2017

Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name:	TRIO[®] SHEEP
Product Code:	8141790
Recommended Use:	A mineralised oral anthelmintic for treatment of internal parasites in sheep
Company Identification:	Ravensdown Limited
Address:	292 Main South Road, Hornby PO Box 1049 Christchurch
Customer Centre:	0800 100 123
National Poisons Information Centre:	0800 POISON (0800 764 766)
Emergency Telephone Number:	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
Transport Emergency Phone:	111 - tell operator what service is needed: Fire, Ambulance, Police

Section 2: HAZARD IDENTIFICATION

Hazard Classifications:	6.1E, 6.5B, 6.6B, 6.8A, 6.8C, 6.9B, 9.1A, 9.2D, 9.3C, 9.4A
Priority Identifiers:	WARNING KEEP OUT OF REACH OF CHILDREN
Secondary Identifiers:	6.1E = May be harmful if swallowed or absorbed through the skin 6.5B = Contact sensitiser 6.6B = Suspected of causing genetic defects 6.8A = May damage fertility 6.8C = May cause harm to breast-fed children 6.9B = Harmful to human target organs or systems 9.1A = Very toxic to aquatic organisms 9.2D = Harmful to soil environment 9.3C = Harmful to terrestrial vertebrates 9.4A = Very toxic to terrestrial invertebrates

Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
Levamisole Hydrochloride	16595-80-5	4.0%
Albendazole	54965-21-8	2.5%
Abamectin	71751-41-2	0.1%
Zinc Chelate 14%	12519-36-7	0.4%
Copper Chelate 14%	54453-03-1	1.46%
Cobalt Chelate 14%	36499-65-7	0.15%
Ethylenediamine dihydroiodide (EDDI)	5700-49-2	0.12%
Sodium Selenate Anhydrous	13410-01-0	0.12%
Glycols		30-60%
Alcohols and derivatives		1-10%
Other non-hazardous ingredients		30-60%

Section 4: FIRST AID MEASURES

First Aid Measures:	Consult the National Poisons Centre on 0800 POISON (0800 764 766) or a doctor immediately in every case of suspected poisoning.
Inhalation:	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Ingestion:	Never give anything by mouth to an unconscious person. If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766). Seek medical assistance immediately.
Skin:	Remove contaminated clothing and wash affected area thoroughly with soap and water. If a large area is affected seek medical assistance.
Eye:	Flush with plenty of water for 15 minutes holding eyelids open if necessary. Call a doctor immediately.
Advice to Doctor:	No specific antidote. Treat symptomatically. If vomiting is induced, suggest endotracheal and/or oesophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach.

Section 4: FIRST AID MEASURES

Flash Point:	Not applicable (non-flammable)
Hazardous Combustion Products:	If involved in a fire may evolve noxious and/or corrosive fumes Expansion on heating may lead to violent rupture of containers. Non-combustible, not considered to be a significant fire risk
Extinguishing Media:	Alcohol resistant foam is the preferred medium. If not available use Normal Protein Foam
Protective Equipment:	Breathing apparatus and fire kit
HAZCHEM Code:	3Z
Location Certificate:	Not applicable
Hazardous Atmosphere Zone:	Not applicable

Section 6: ACCIDENTAL RELEASE MEASURES

Spills and Disposal:	Wear appropriate protective clothing. Exclude non-essential people from the area. Contain spill and absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Dispose of waste safely in an approved landfill.
Protective Clothing:	For appropriate personal protective equipment see section 8.
Environmental Precaution:	Prevent from entering drains, waterways or sewers. If spill does enter waterways contact the local authority.

Section 7: HANDLING AND STORAGE

Handling: Keep out of reach of children. Avoid contact with skin, eyes and inhalation of vapours. Use personal protective equipment as required.

Approved Handler: Not required

Tracking: Not required

Record Keeping: Not required

Storage: Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertiliser and seed. Store in accordance with NZS 8409; Management of Agrichemicals. This product is subject to signage and secondary containment when stored in quantities of 100 litres or more, either alone or in aggregate with substances of the same hazard classification. Storage of more than 100 litres requires emergency response plans. For full details refer to NZS 8409; Management of Agrichemicals and HSNO Regulations (Emergency Management and Identification Regulations).

Other Information: Always read the label before use. See label for further information on handling and storage.

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Limits: No exposure limits have been assigned for this product.

Protective Equipment: When contact with product is likely, wear protective gloves.

Engineering Controls: Handle in well-ventilated area. Avoid inhalation of vapours.

Hygiene Precautions: Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing daily after work. Contaminated clothing should not be allowed out of the workplace.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale blue suspension

Specific Gravity: 1.02

Solubility in Water: Partly miscible in water

Flash Point: Not applicable (non-flammable)

pH: 5.0 - 5.5

Section 10: STABILITY AND REACTIVITY

Stability: When stored appropriately this product should show no significant degradation for at least 21 months from the date of manufacture.

Hazardous Polymerisation: Not known to occur

Materials to Avoid: None

Section 11: TOXICOLOGICAL INFORMATION

Hazard Classifications:	6.1E, 6.5B, 6.6B, 6.8A, 6.8C, 6.9B
Inhalation:	Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful.
Ingestion:	May be harmful if swallowed Levamisole Hydrochloride: Oral LD50; 480 mg/kg (rat), 210 mg/kg (mouse) Albendazole: Oral LD50; 2,400 mg/kg (rat) Abamectin: Oral LD50; 11 mg/kg (rat), 14 mg/kg (mouse) Sodium Selenate: Oral LD50; 1.6 mg/kg (rat) EDDI: Oral LD50; 1,620 mg/kg (mouse)
Skin:	The liquid may be miscible with fats or oils and may degrease the skin, producing a skin reaction described as non-allergic contact dermatitis. May cause skin irritation on prolonged contact. Is a contact sensitiser.
Eye:	Not classed as an eye irritant
Chronic Effects:	There is limited evidence that skin contact with this product is more likely to cause a sensitisation reaction in some persons compared to the general population. Sensitisation may result in allergic dermatitis responses including rash, itching, hives or swelling of extremities.
Reproductive Toxicity:	There is some evidence from animal testing that exposure to at least one component of this product may result in toxic effects to the foetus and may be harmful to development of breast-fed children
Mutagenicity:	There is some evidence from animal testing that exposure to one component of this product for prolonged periods may cause physical defects in the developing embryo (teratogenesis)
Carcinogenicity:	Not considered to be carcinogenic

Section 12: ECOLOGICAL INFORMATION

Hazard Classifications:	9.1A, 9.2D, 9.3C, 9.4A
Ecotoxicity:	Very toxic to aquatic organisms and terrestrial invertebrates Harmful to soil environment and terrestrial vertebrates Albendazole: Water flea (<i>Daphnia magna</i>) EC50 (48 h) 0.0679 mg/L Abamectin: Acute oral LD50: 84.6 mg/kg (mallard ducks), >2,000 mg/kg (bobwhite quail) Fish LC50 (96 h): 3.2 µg/L (rainbow trout), 9.6 µg/L (bluegill sunfish), 24 µg/L (channel catfish), 42 µg/L (carp); Daphnia EC50 (48 h) 0.34 ppb Other LC50 (96 h) 1.6 ppb (pink shrimp), 0.022 ppb (mysid shrimp), 153 ppb (blue crab) Sodium Selenate: Scud (<i>Gammarus pseudolimnaeus</i>) EC50 = 0.083 mg/L Green algae (<i>Selenastrum capricornutum</i>) EC50 = 0.2 mg/mL EDDI: Water flea (<i>Daphnia magna</i>) EC50 (48 h) 0.16 mg/L
Bioaccumulation:	Bioaccumulation unlikely to occur

Section 13: DISPOSAL INFORMATION

- Product Disposal:** Dispose of product only by using according to label or at an approved landfill. Recycle where possible. Do not contaminate bodies of water with chemical or empty container.
- Container Disposal:** Triple rinse container. Triple rinsed containers containing the Agrecovery logo on the label, and that are free of all residues and have an intact legible label, may be taken to an Agrecovery collection site for disposal. Burn in an appropriate incinerator if circumstance, such as wind direction permit. Otherwise crush and bury in an approved landfill or recycle through an alternative approved recycling scheme. Do not burn container or use container for any other purpose.

Section 14: TRANSPORT INFORMATION

Transport Information: It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilisers during transport.

RAIL/ROAD; SEA (IMDG Code); AIR (ICAO/IATA)

UN Number:	3082
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (abamectin)
DG Class:	9
Subsidiary Class:	None
Packing Group:	III
Marine Pollutant:	Yes
MTQ (non-commercial):	1,000 litres
HAZCHEM Code:	3Z
IERG Number:	47

Other information: Check the latest versions of the Land Transport Dangerous Goods Rule 45001 and associated Transport of Dangerous Goods on Land (NZS 5433) for additional information on maximum allowable transport quantities (MTQ's), placarding and segregation. Sea transport may require further segregation.

Section 15: REGULATORY INFORMATION

- ACVM:** Registered pursuant to the ACVM Act 1997, A10662
See www.foodsafety.govt.nz for registration conditions.
- EPA:** Approved pursuant to the HSNO Act 1996, Approval number: HSR100146
See www.epa.govt.nz for approval controls.

Section 16: OTHER INFORMATION

This Safety Data Sheet was updated on the date shown on page 1 and supersedes all previous versions.

The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material. The information is provided in good faith based on current knowledge and experience. No warranty with regard to the product properties is expressed or implied.