




Section 1 – Identification of the substance/preparation and the company

Product Name:	TwinOX Sheep HiMin
Company:	Donaghys Ltd.
Address:	16 Sheffield Crescent PO Box 20 449 Christchurch
Telephone Number:	0800 942 006
Manufacturing Product Code:	APSAD0020
Recommended Use:	For the treatment and control of mature, immature stages of all major gastrointestinal roundworms, lungworms (including those resistant to either benzimidazole or levamisole) and tapeworms in sheep. Also provides a supplementary source of copper, cobalt, iodine, zinc and selenium.

Section 2 – Hazard Identification

GHS Classifications:	Acute oral toxicity Category 4 Skin sensitisation Category 1 Germ cell mutagenicity Category 2 Reproductive toxicity Category 2 Specific target organ toxicity – single exposure Category 2 Hazardous to the aquatic environment chronic Category 2 Hazardous to terrestrial vertebrates
GHS Pictograms:	
Hazard Statements:	H302 Harmful if swallowed H312 Harmful in contact with skin H317 May cause an allergic skin reaction H332 Harmful if inhaled H341 Suspected of causing genetic defects H361 Suspected of damaging fertility or the unborn child H371 May cause damage to organs H411 Toxic to aquatic life with long lasting effects H433 Harmful to terrestrial vertebrates
Prevention Statements:	P102 Keep out of reach of children P103 Read label before use P201 Obtain special instructions before use P202 Do not handle until all safety precautions have been read and understood P260 Do not breathe mist/vapours/spray P261 Avoid breathing mist/vapours/spray P264 Wash hands thoroughly after handling P270 Do not eat, drink or smoke when using this product



Prevention Statements: (Continued)	P272	Contaminated work clothing should not be allowed out of the workplace
	P273	Avoid release to the environment
	P280	Wear protective gloves/clothing
	P281	Use personal protective equipment as required
Response Statements:	P101	If medical advice is needed, have product container or label at hand.
	P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
	P330	Rinse mouth.
	P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
	P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
	P363	Wash contaminated clothing before reuse.
	P308 + P313	IF exposed or concerned: Get medical advice/attention.
	P309 + P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
	P391	Collect spillage.
Storage:	P405	Store locked up.
Signal Word:	WARNING	
EPA NZ Approval Code:	HSR100758 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2020	

Section 3 – Composition Information

Chemical Entity	CAS No.	Content
Levamisole hydrochloride	16595-80-5	4.0%
Oxfendazole micronised	53716-50-0	2.3%
Copper glycinate	13479-54-4	<10%
Cobalt glycinate	14281-74-4	<5%
Sodium selenate	13410-01-0	<1%
Zinc glycinate	7214-08-6	<5%
EDDI	5700-49-2	<1%
Trade secret		To 100%



Section 4 – First Aid Measures

- If Swallowed:** Rinse Mouth. Call the POISON CENTER or contact a doctor/physician if you feel unwell.
- If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- If on skin:** Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before use.
- If inhaled:** Remove to fresh air and keep at rest in a position comfortable for breathing. Call the POSION CENTRE or doctor/physician if you feel unwell.

If exposed or if you feel unwell: Call the POISON CENTER or contact a doctor/physician. If medical advice is needed, have product container or label at hand

POISON CENTRE CONTACT: 0800 764 766 (National Poisons Information Centre)

Section 5 – Fire-fighting Measures

- Suitable Extinguishing Media:** Alcohol resistant foam, dry chemical powder, carbon dioxide and water spray.
- Unsuitable Extinguishing Media:** No information available.
- Hazardous combustion products:** Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas.
- Protective Equipment:** Self contained breathing apparatus and protective gloves and clothing.
- Flashpoint:** Not available.

Section 6 – Accidental Release Measures

- Spills and Disposal:** Evacuate personnel to safe areas. Avoid breathing dust. Use appropriate tools to put spilt material in a suitable chemical waste container. Clean contaminated surface thoroughly. Absorb spill with inert material (e.g. Vermiculite, dry sand or earth).
- Protective Equipment:** Wear protective gloves and face/eye protection and protective clothing.
- Environmental Precautions:** Prevent washings from entering waterways. Do NOT flush into surface water or sanitary sewer system

IN CASE OF EMERGENCY PHONE

National Poisons Centre 03-474-4700 or 0800 POISON (0800-764-766)



Section 7– Handling and Storage

- Technical precautions:** Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
- Safe handling advice:** Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Do NOT ingest.
- Storage conditions:** Keep container tightly closed in dry and well-ventilated areas. Store at room temperature in the original container.
- Incompatible Materials:** No information available

Section 8 – Exposure Controls/Personal Protection

- Exposure Limits:** N/A
- Protective Equipment:** Observe good workplace practices and avoid contact with skin and eyes. Wear overalls, safety glasses and waterproof gloves when handling. Wear eye / face protection. In case of inadequate ventilation, wear respiratory protection.
- Hygiene Precautions:** Do not eat, drink or smoke when using this product.
- Engineering Controls:** General exhaust is adequate under normal operating conditions.

Section 9 – Physical and Chemical Properties

- Appearance:** Viscous blue suspension
- Odour:** No information available
- Specific Gravity:** 0.95 – 1.3
- pH:** 4.1 – 4.8
- Vapour Pressure:** No information available
- Flash Point:** No information available
- Autoignition Temperature:** No information available
- Flammability Limits:** No information available
- Solubility:** Soluble in water

Section 10 – Stability and Reactivity

- Stability:** Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
- Conditions to Avoid:** No information available
- Materials to Avoid:** No information available
- Hazardous Decomposition Products:** Carbon oxides, Nitrogen oxides (NO_x), Sulphur oxides, Hydrogen chloride gas

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Section 11 – Toxicological Information

No adverse health effects are expected if the product is handled in accordance with this Safety Data Sheet and the product label.

Ingestion:	Product is harmful if swallowed.
Inhalation:	May cause irritation to respiratory tract.
Dermal:	May cause irritation to the skin.
Ocular:	May cause irritation to the eyes.
Chronic Effects:	No information available.
Mutagenic effects:	No information available.
Sensitization:	No information available.

Section 12 - Ecological Information

Ecotoxicity:	Product is toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.
Persistence and degradability:	The product includes heavy metals. Prevent release into the environment. Contains substances known to be hazardous to the environment or not degradable in wastewater treatment plants.
Bioaccumulative potential:	Product has a high potential to bioconcentrate.
Mobility in soil:	No data available.
Other adverse effects:	No data available.

Section 13 – Disposal Considerations

Product and container Disposal:	If possible, dispose of by using product according to the label, otherwise dispose of product, packaging and waste at an approved landfill or equivalent facility in accordance with local, regional and national environmental regulations.
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Section 14 – Transport Information

International Regulations IATA-DGR

Proper Shipping Name:	Environmentally Hazardous Substance, liquid, N.O.S. (Contains 4.0% Levamisole, 2.3% Oxfendazole, Sodium Selenate)
UN Number:	3082
Hazard class:	9
Subsidiary Risk Class:	No information available
Packing Group:	III
Marine pollutant:	Yes
Hazchem code:	3Z

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IMDG-Code

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(Contains 4.0% Levamisole, 2.3% Oxfendazole, Sodium Selenate)
Class: 9
Packing group: III
EmS Code: F-A, S-F
Marine pollutant: Yes
Hazchem code: 3Z

Section 15 – Regulatory Information

EPA NZ Registration Code: HSR100758
See <http://www.epa.govt.nz> for approval conditions

ACVM Registration Number: A11656
See <http://www.foodsafety.govt.nz> for approval conditions

Section 16 – Other Information

The information in this MSDS is provided in good faith, but no warranty, expressed or implied is made. Contact Donaghys Ltd for more information.

EMERGENCY CONTACT No.: 0800 764 766 (National Poisons Information Centre)