




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

HSNO Classifications:	6.1D (All), 6.5B, 6.6B, 6.8B, 6.9B, 9.1B, 9.3C
GHS Classifications:	Acute oral toxicity Category 4 Acute dermal toxicity Category 4 Acute inhalation 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
	
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 P271 - Use only outdoors or in a well-ventilated area P272 - Contaminated work clothing should not be allowed out of the workplace



Prevention Statements: (Continued)	P273 - Avoid release to the environment P280 - Wear protective gloves/clothing P281 - Use personal protective equipment as required
EPA NZ Approval Code:	HSR100758
Signal Word	WARNING

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:	Call the POISON CENTER or contact a doctor/physician if you feel unwell. Rinse Mouth.
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

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.

IN CASE OF EMERGENCY PHONE
National Poisons Centre 03-474-4700 or 0800 POISON (0800-764-766)



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

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.

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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.

Section 14 – Transport Information

International Regulations IATA-DGR

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS OXFENDAZOLE, SODIUM SELENATE)
UN Number: 3082
Hazard class: 9
Subsidiary Risk Class: No information available
Packing Group: III
Marine pollutant: YES
Hazchem code: 3Z

IMDG-Code

UN number: UN 3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS 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)

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