



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
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 supplementary source of copper, cobalt, zinc and selenium.

Section 2 – Hazard Identification

Hazard Classes



6.1D	Harmful if swallowed Harmful if inhaled
6.5B	May cause an allergic skin reaction
6.6B	Suspected of causing genetic defects
6.8B	Suspected of damaging fertility or the unborn child
6.9B	Causes damage to organs
9.1B	Toxic to aquatic life with long lasting effects
9.3C	Toxic to terrestrial vertebrates

Prevention statements

P102	Keep out of reach of children
P103	Read label before use
P201	Obtain special instructions before use
P260	Do not breathe mist/vapours/spray
P261	Avoid breathing mist/vapours/spray
P263	Avoid contact during pregnancy/while nursing
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
P273	Avoid release to the environment
P280	Wear protective gloves/clothing
P281	Use personal protective equipment as required

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**EPA NZ Approval Code**
Signal WordHSR100758
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%

Section 4 – First Aid Measures

If Swallowed:	Call the POISON CENTRE 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 reuse.
If inhaled:	Remove to fresh air and keep in a position comfortable for breathing. Call the POISON CENTRE or doctor/physician if you feel unwell.

If exposed or if you feel unwell: Call the POISON CENTRE 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

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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. Collect spillage.

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. Store locked up.
Incompatible Materials:	No information available

Section 8 – Exposure Controls/Personal Protection

Exposure Limits:	N/A
Protective Equipment:	Observe good work place 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

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Appearance:	Viscous blue suspension
Odour:	No information available
Specific Gravity @ 20°C:	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 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 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 waste water 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: Preferably dispose of product by use. Otherwise dispose of product, packaging and waste at an approved landfill or equivalent facility in accordance with local, regional and national environmental regulations. Donaghys is a member of Agrecovery Container Recycling programme. For details on how to correctly prepare your container and collection sites please visit www.agrecovery.co.nz.

Section 14 – Transport Information

International Regulations

IATA-DGR

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID MIXTURE, N.O.S (CONTAINS LEVAMISOLE, 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 MIXTURE, N.O.S. (CONTAINS LEVAMISOLE, OXFENDAZOLE, SODIUM SELENATE)
Class	9
Packing group	III
EmS Code	F-A, S-F
Marine pollutant	Yes

Section 15 – Regulatory Information

EPA NZ Registration Code: HSR100758

ACVM Registration Number: A11656

HSNO Classification: 6.1D
6.5B
6.6B
6.8B
6.9B
9.1B
9.3C

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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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