



SAFETY DATA SHEET

Product Name: ALL-MIN Levamisole

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

Product name:	All-Min Levamisole
Product code:	A6989
Recommended use:	For the treatment and control of gastro-intestinal parasites and lungworm in sheep and cattle. Prevents and controls selenium deficiencies.
Company details:	Merial New Zealand Ltd
Address:	Level 3, Merial Building Osterley Way Manukau City New Zealand
Telephone number:	Phone: +64 9 980 1600 Fax: +64 9 980 1601
Emergency telephone number:	Merial Freephone: 0800 800 822 National Poisons Centre : 0800 764 766 (0800 POISON) Fire Service, Ambulance : Dial 111
Date of preparation:	17 September 2007

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Clear blue liquid containing levamisole, sodium selenate and copper edentate.

Product components:

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Levamisole hydrochloride	16595-80-5	4.0%w/v
Sodium metabisulphite	7681-57-4	<1.0%w/v
Chelated mineral mix (Se, Cu, Co, Zn)	Mixture	<10%w/v
Ingredients determined not to be hazardous	-	To volume

SECTION 3: HAZARDS IDENTIFICATION

Hazard classifications:	6.1E, 6.5B, 6.6B, 9.1C
Priority and secondary identifiers:	Harmful – keep out of reach of children Ecotoxic
Risk and safety phrases:	May be harmful if swallowed, inhaled or absorbed through the skin. Avoid skin contact or inhalation. Wash hands and exposed skin before meals and after work. Warning – Repeated exposure may cause skin allergy. Avoid skin contact. Harmful – suspected of causing heritable mutations/genetic defects Harmful to aquatic life with long-lasting effects. Avoid contamination of any water supply with product or empty

SAFETY DATA SHEET

Product Name: ALL-MIN Levamisole

container.

SECTION 4: FIRST AID MEASURES

Necessary first aid measures:

Contact the National Poisons Information Centre for further information: phone 0800 POISON (0800 764 766)

Eye Contact: Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance.

Skin Contact: Flush body and clothes with water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.

Inhalation: Remove patient to fresh air. Lie 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.

Do NOT induce. Seek medical assistance immediately.

Workplace facilities:

Facilities storing or utilising this material should be equipped with an eyewash facility and safety shower.

Required instructions:

N/A

Notes for medical personnel:

Treat symptomatically.

Atropine sulphate can be used if muscle tremors, ataxia or the onset of paralysis is suspected.

SECTION 5: FIRE FIGHTING MEASURES

Type of hazard:

Non-flammable

Fire hazard properties:

Toxic fumes produced in a fire include oxides of carbon, nitrogen, sulphur and hydrogen chloride.

Regulatory requirements:

N/A

Extinguishing media and methods:

Extinguish with foam, dry chemical, or water spray.

Hazchem code:

N/A

Recommended protective clothing:

Wear full protective clothing and self contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency procedures:

Wear protective clothing. Clear area of unprotected personnel.
Contain spill and absorb with sand, soil or absorbent granules. Do not allow product or washings to enter the waterways or sewer. If spill does enter waterways contact the local authority. Collect in an appropriate

SAFETY DATA SHEET

Product Name: ALL-MIN Levamisole

sealable container for disposal in an approved landfill.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:	N/A
Regulatory requirements:	N/A
Handling practices:	N/A
Approved handlers:	Not required
Conditions for safe storage:	Store in original container in a cool, dry place away from direct heat or direct sunlight. Store away from foodstuffs, children and animals. Keep container sealed when not in use.
Store site requirements:	N/A
Packaging:	N/A

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Workplace exposure standards:	No exposure limits have been specifically assigned for this product.
Application in the workplace:	N/A
Exposure standards outside the workplace:	No exposure limits have been specifically assigned for this product.
Engineering controls:	Handle in a well ventilated area, generally natural ventilation is adequate. Facilities storing or utilising this material should be equipped with an eyewash facility and safety shower.
Personal protection:	Avoid unnecessary contact. Wash immediately if any personal contact occurs. Wash contaminated clothing before storage or reuse. Wash thoroughly after handling and before eating, drinking or smoking.
References:	N/A

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specify product data:	<u>Appearance:</u> Clear blue liquid <u>Solubility:</u> Soluble <u>Specific Gravity</u> : 1.005g/mL @ 20°C <u>pH:</u> 3.5 - 4.0
Required specifications:	N/A
Further specifications:	N/A

SAFETY DATA SHEET

Product Name: ALL-MIN Levamisole

Specific advice: N/A

SECTION 10: STABILITY AND REACTIVITY

Stability of the substance: Stable under normal conditions. Shelf life: 18 months

Conditions to avoid: N/A

Material to avoid: Avoid strong oxidising agents.

Hazardous decomposition products: N/A

Hazardous polymerization: Will not occur.

Specific data: N/A

SECTION 11: TOXICOLOGICAL INFORMATION

Data and interpretation: Toxicity Data

	<u>Levamisole hydrochloride</u>	<u>Sodium metabisulphite</u>
Acute Oral LD ₅₀ (rat) (I.V.)	180mg/kg	115mg/kg
Intraperitoneal LD ₅₀	42mg/kg	-

Summaries data: N/A

Effects of Acute Exposure:

Eye Contact: Can cause irritation with effects including watering, tearing, pain and possibly burning.

Skin Contact: If levamisole hydrochloride is absorbed through the skin symptoms can be similar to ingestion.

Inhalation: Generally not harmful if fumes of this product are inhaled. Inhalation of levamisole hydrochloride can lead to similar symptoms as ingestion.

Ingestion: Harmful if ingested, can cause nausea, vomiting, dizziness, headaches. Ingestion of levamisole hydrochloride may produce symptoms including cholinergic type signs of salivation, muscle tremors, ataxia, urination, defecation and collapse.

Other Health Effects: In fatal levamisole poisoning, the immediate cause of death is asphyxia from respiratory failure.

Effects of Chronic Exposure: None known

SECTION 12: ENVIRONMENTAL INFORMATION

Potential environmental interactions: Harmful to fish. Do not contaminate drains or water supply with product.

Do not use at the same time as any other selenised fertiliser, prill or product without consulting a veterinarian.

Data organisation : N/A

SAFETY DATA SHEET

Product Name: ALL-MIN Levamisole

Environmental risk and safety phrases:

N/A

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal information :

Product disposal: To avoid disposal all attempts should be made to utilise the product completely in accordance with its registered use. Prevent the product from entering natural water sources.

Container disposal: Burn empty container if wind direction permits, otherwise bury in a suitable landfill.

SECTION 14: TRANSPORT INFORMATION

Relevant information:

Tracking not required

Other requirements:

N/A

SECTION 15: REGULATORY INFORMATION

Regulatory status:

Registered pursuant to the ACVM Act 1997, No. A6989. See www.nzfsa.govt.nz/acvm for registration conditions.

Approved pursuant to the HSNO Act 1996, Approval Code HSR001865. See www.ermanz.govt.nz for approval conditions.

HSNO and ACVM controls:

Refer to Section 3

List exposure limits:

No exposure limits have been specifically assigned for this product.

SECTION 16: OTHER INFORMATION

Additional Information:

For product information visit the Merial website www.merial.co.nz

While the information set forth is believed to be accurate as of the date hereof, MERIAL NZ LTD. makes no warranty with respect hereto and disclaims all liability from reliance thereon.