

# MATERIAL SAFETY DATA SHEET

## LEVAMISOLE CONCENTRATE



### SECTION 1 – IDENTIFICATION & SUPPLIER CONTACTS

Controlled Medications Pty. Ltd.  
A.B.N 22 005 977 739

Trading as: Allfarm Animal Health  
2 Glendale Avenue  
Hastings VIC 3915

Emergency Telephone  
Number: 0410395223

Contact point  
(non emergency calls): 03 5979 4488 (8.00am – 4.00pm AEST Monday to  
Friday)

Product Name: Levamisole Concentrate

Other Names: Levamisole hydrochloride, Citarin L, Decaris, Niratic  
hydrochloride, Niratic-puron hydrochloride.

Manufacturer's Product Code: 7

Poisons Schedule Number: 6

Pack Size and Type: 100g & 500g foil sachet

Use: Poultry anthelmintic for use in water.

Creation date: 10 January 2008

Revised: 29 March 2011

Next revision: March 2014

### SECTION 2 – HAZARDS IDENTIFICATION

#### STATEMENT OF HAZARDOUS NATURE

Hazardous according to the criteria of Worksafe Australia

### SECTION 3 – COMPOSITION

#### Ingredients

<u>Chemical Name:</u>	<u>CAS Number:</u>	<u>Proportion:</u>
Levamisole hydrochloride	16595-80-5	>99%

### SECTION 4 – FIRST AID MEASURES

#### Label Regulated

First Aid Statement: If poisoning occurs, contact Doctor or Poisons  
Information Centre. Phone Australia 13 11 26

Swallowed: If swallowed, DO NOT induce vomiting, transport  
person to a hospital or doctor immediately

Eye:	Immediately flush eye with plenty of luke warm water, holding eyelids open. If irritation persists immediately transport to hospital.
Skin:	If skin contact occurs remove contaminated clothing and wash skin thoroughly with soap and water. Seek medical attention if irritation persists.
Inhaled:	Remove person from exposure. Avoid becoming a casualty.
First Aid Facilities:	It is recommended that eyewash and general washing facilities are readily available to areas of use.
Advice to Doctor:	Atropine sulphate can be used if muscle tremors, ataxia or the onset of paralysis is suspected

### **SECTION 5 – FIRE FIGHTING MEASURES**

Fire / Explosion Hazard:	Use water spray or dry chemical powder. Non-flammable but emits toxic fumes of carbon, nitrogen and sulphur oxides. Stability: Stable under normal conditions of use. Materials to avoid: Strong oxidizing agents.
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### **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

Spills and Disposal:	Avoid generating dust. Cleanup personnel should wear appropriate protective equipment to protect against skin and eye contact and inhalation of dust. Collect in sealed, open top containers. Waste material should be disposed of following local, state or national EPA regulations.
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### **SECTION 7 – HANDLING & STORAGE**

Storage and Transport:	Store below 30 degrees C (Room Temperature) in a dry place. This material is a SCHEDULED (S6) POISON and Classified as a Class (6.1) Dangerous Good and must be stored, handled and used according to the appropriate regulations.
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### **SECTION 8 – EXPOSURE CONTROLS & PERSONAL PROTECTION**

Exposure Standards:	No exposure standard allocated. It is recommended to keep dust below the grain dust threshold limit value of 4mg/m <sup>3</sup> .
Engineering Controls:	Use only in well ventilated areas. Installation of dust control to maintain total dust levels below 4mg/m <sup>3</sup> .
Personal Protection:	Where substances are irritating to eyes, it is advisable to have goggles available for use. To prevent skin exposure wear rubber or latex gloves and safety goggles. Always wash protective equipment thoroughly after use.
Flammability:	Non-flammable
Respirator:	Use a P2 respirator or greater mask.

**SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES**

Appearance:	White crystalline powder.
Boiling Point/Melting Point:	228° – 230° C
Vapour Pressure:	Not Applicable
Specific Gravity:	Not Measured
Flashpoint:	Not Measured
Flammability Limits:	Not Measured
Solubility in Water:	Partially soluble
Other Properties:	Molecular Weight: 240.76 Molecular Formula: C11-H12-N2-S

**SECTION 10 – STABILITY & REACTIVITY**

Chemical Stability:	Product is stable. No hazardous reactions.
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**SECTION 11 – TOXICOLOGICAL INFORMATION**

Acute:	Oral LD50 (RAT); 180mg/kg; REFERENCE: Archives of Toxicology 54:275, 1983. LD50; ROUTE: Intraperitoneal; DOSE: 42mg/kg; TOXIC EFFECTS: BEHAVIORAL – Tremor; BEHAVIORAL – convulsions or effect on seizure threshold; LUNGS, THORAX OR RESPIRATION. This product has not been listed as a Carcinogen according to the international Agency for the Research of Cancer (IARC).
Swallowed:	Toxic if swallowed. Effects will include cholinergic type signs of salivation, muscle tremors, ataxia, urination, defecation and collapse. In fatal levamisole poisoning, the immediate cause of death is asphyxia from respiratory failure.
Eye:	Will cause irritation to the eyes, with effects including watering and tearing, pain and possible burning.
Skin:	Toxic by skin contact. This material may be absorbed through the skin leading to effects similar to those of swallowing.
Inhaled:	Toxic by inhalation. This material will cause effects as outlined under swallowing.
Chronic:	There appears to be some evidence that long term levamisole poisoning will cause effects to the endocrine system in particular to the spleen further effects on the kidney, ureter and bladder including changes in tubules (including acute renal failure, acute tubular necrosis) will also occur. Blood changes in serum composition. REFERENCE: Yakuri to

Chiryo. Pharmacology and Therapeutics 10:3141, 1982.

## SECTION 12 – ECOLOGICAL INFORMATION

This section has been left blank intentionally.

## SECTION 13 – DISPOSAL CONSIDERATIONS

After intended use: Return clean plastic containers for recycling where this is an option or for disposal at a landfill authorised to accept that waste. Shred and bury empty bags and fibre drums in a local authority landfill. If neither of these options is available, bury the container below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty packaging and product should not be burned.

After spill or accident: Collect in sealed, open top containers. Waste material should be disposed of following local, state or national EPA regulations.

## SECTION 14 – TRANSPORT INFORMATION

UN No: 2811

UN Proper Shipping Name: TOXIC SOLID, ORGANIC, N.O.S.(CONTAINS LEVAMISOLE HYDROCHLORIDE).

Class & Subsidiary Risk: 6.1

Packaging Group: Not classified

Hazchem code: 2X

## SECTION 15 – REGULATORY INFORMATION

Poisons Schedule: Schedule 6

APVMA Registration: 45117/0302

Labelling: All necessary directions, precautions and warnings for normal use are included on the product label.

## SECTION 16 – OTHER INFORMATION

Disclaimer: This Material Safety Data Sheet has been developed according to the WORKSAFE Australia /NOHSC code of practice. The information was obtained from current and reliable sources and believed to be correct as of the date hereof. It is the users' responsibility to determine safe conditions of use and to assume liability for loss, injury, damage or expense resulting from the improper use of this product.