**Product Description**

**WSD LEVAMISOLE** is a broad spectrum treatment for roundworm parasites of sheep and cattle.

**Type of Preparation**

**WSD LEVAMISOLE** is a solution for oral use as a drench containing 27.5g/L levamisole- an imidazothiazole compound. It is commonly known as a ‘clear drench’.

**Indications**

**Cattle, Sheep, Lambs and Goats:**

Mature and immature stages of worm parasites susceptible to levamisole:
- Barber’s pole worm (*Haemonchus spp*), stomach hair worm (*Trichostrongylus axei*), black scour worms (*Trichostrongylus spp*), small brown stomach worm (*Ostertagia spp*), small intestinal worm (*Cooperia spp*), thin necked intestinal worm (*Nematodirus spp*), hookworm (*Bunostomum trigonocephalum*), intestinal threadworm (*Strongyloides spp*), large bowel and nodule worms (*Oesophagostomum spp*), large mouthed bowel worm (*Chabertia ovina*), and large lung worm (*Dictyocaulus spp*).

**Dairy Cattle & Milking Sheep:** Do NOT use in cattle or sheep producing milk for human consumption.

**Dosage**

Always refer to the label. Separate into different weight classes if there is a large variation in age and weight.

Levamisole may be toxic. It is recommended that sheep or cattle should NOT be fasted before the administration of any drench containing levamisole.

**Sheep and lambs:** Dose at the rate of 1ml per 4kg body weight.

**Cattle:** Dose at the rate of 10ml per 45kg body weight.

**Advice On Use**

**Cattle:**
- **WSD LEVAMISOLE** is a reliable broad-spectrum oral drench for cattle of all ages.
- It is often best administered to adult cattle with a drenching hook.

**Sheep:**
- **WSD LEVAMISOLE** is a broad-spectrum treatment which is highly effective against mature and immature worms of susceptible strains of sheep parasites.
- It is highly effective against and can be used to treat infestations by barbers pole worm (*Haemonchus contortus*) and thin-necked intestinal worm (*Nematodirus spp*).
- The use of WSD Levamisole may be indicated in strategic programs to reduce contamination of pastures when testing has shown it to be effective against other local worm parasites. It is advisable to test efficacy before relying on levamisole as a strategic treatment.
- Adult worms of resistant strains of gastrointestinal worm parasites of sheep may not be removed by treatment and this may require the later use of an effective strategic treatment from the WSD range of drenches.
- Levamisole is not effective against tapeworms.
- Resistance to levamisole is widespread among some species of gastrointestinal parasites on Australian sheep farms.
- The repeated use of any drench is likely to result in the emergence of resistance and therefore, regular testing for efficacy is recommended.
Active Constituent:
32 g/L Levamisole Hydrochloride (equivalent to 27 g/L Levamisole)

For the control of levamisole sensitive gastrointestinal roundworms and lungworms including those which are resistant to Benzimidazoles.

CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING
FOR ANIMAL TREATMENT ONLY

WSD Levamisole

ORAL ANTHELMINTIC FOR SHEEP AND CATTLE

WSD Agribusiness Pty. Ltd.

20 L
**WSD LEVAMISOLE ORAL ANTHELMINTIC FOR SHEEP AND CATTLE** contains levamisole hydrochloride (32 g/L), a member of the levamisole family of drenches. It is effective for the control of levamisole sensitive gastrointestinal roundworms and lungworms including those that are resistant to benzimidazoles.

It is effective against sensitive strains of the following internal parasites:

**Sheep and Lamb**

- Haemonchus contortus
- Trichostrongylus axei
- Osterligia spp
- Cooperia spp
- Nematodirus spp
- Strongylus papillosus
- Bunostomum spp
- Oesophagostomum columbianum
- Oesophagostomum venulosum
- Chabertia ovina
- Dictyocaulus filaria

**Cattle**

- Haemonchus placei
- Trichostrongylus axei
- Trichostrongylus spp
- Bunostomum phlebotomum
- Oesophagostomum radiatum
- Cooperia spp
- Nematodirus spp
- Bovicola ovis

**INTERNAL PARASITES**

- Strongyle - Trichostrongylus spp, Cooperia spp
- Oesophagostomum spp
- Oesophagostomum venulosum
- Oesophagostomum columbianum
- Strongyloides papillosus
- Oesophagostomum radiatum
- Osterligia spp
- Chabertia ovina
- Dictyocaulus filaria

**DIRECTIONS FOR USE**

**Restraints:** DO NOT USE in female sheep or cattle which are producing or may in the future produce milk or milk products for human consumption. Shake container well before using this product.

**ADMINISTRATION:**

WSD LEVAMISOLE can be administered orally through standard accurate drenching equipment. Clean equipment thoroughly before and after use.

**DOSE RATES:**

Dose mob to the heaviest animal by liveweight in each group (ewes, wethers, rams, lambs); (bulls, cows, steers, calves) and these should be weighed with scales or weighband. Do not underdose. Where there is a variation in size within the group, dose rate should be based on the label directions for each weight range. Drafting into two or more lines may be appropriate, to avoid excessive overdosing.

**Sheep**

- **2.5 mL/10 kg livebodyweight**
  - Under 10 kg
    - 2.5 mL
    - 2.5 mL
    - 2.5 mL
    - 2.5 mL
    - 2.5 mL
  - Over 17.5 kg
    - 2.5 mL
    - 2.5 mL
    - 2.5 mL
    - 2.5 mL
    - 2.5 mL

- **10 mL/45 kg livebodyweight**
  - Under 45 kg
    - 10 mL
    - 10 mL
    - 10 mL
    - 10 mL
    - 10 mL
  - Over 180 kg
    - 10 mL
    - 10 mL
    - 10 mL
    - 10 mL
    - 10 mL

**Cattle**

- **2.5 mL/10 kg livebodyweight**
  - Under 10 kg
    - 2.5 mL
    - 2.5 mL
    - 2.5 mL
    - 2.5 mL
    - 2.5 mL
  - Over 17.5 kg
    - 2.5 mL
    - 2.5 mL
    - 2.5 mL
    - 2.5 mL
    - 2.5 mL

- **10 mL/45 kg livebodyweight**
  - Under 45 kg
    - 10 mL
    - 10 mL
    - 10 mL
    - 10 mL
    - 10 mL
  - Over 180 kg
    - 10 mL
    - 10 mL
    - 10 mL
    - 10 mL
    - 10 mL

**INTERNAL PARASITES**

- Dictyocaulus viviparus
- Nematodirus spp
- Cooperia spp
- Oesophagostomum spp
- Oesophagostomum venulosum
- Chabertia ovina
- Dictyocaulus filaria

**PRECAUTIONS:**

Exercise care in handling weak, pregnant and young animals to avoid unnecessary stress. DO NOT drench dogs with WSD LEVAMISOLE drench. Avoid yarding animals off-feed overnight, and ensure animals have access to water when yarded prior to drenching. Recommended dose should not be exceeded, except under Veterinary supervision.

**WITHHOLDING PERIODS:**

- **MEAT:** DO NOT USE less than three (3) days before slaughter for human consumption.
- **MILK:** DO NOT USE in female sheep or cattle which are producing or may in the future produce milk or milk products for human consumption.

**TRADE ADVICE: EXPORT SLAUGHTER INTERVAL (ESI):**

DO NOT USE less than seven (7) days before slaughter for export for sheep and cattle. The ESI on this label was correct at the time of labe approval. Before using this product, confirm the current ESI from the manufacturer on www.wsdagribusiness.com or the APVMA website www.apvma.gov.au/residues/ESI.shtml

**SAFETY DIRECTIONS:**

- Harmful if swallowed. Avoid contact with eyes and skin. Wash hands after use.

**FIRST AID:**

- If poisoning occurs, contact a doctor or Poison Information Centre. Phone 131126.

**MATERIAL SAFETY DATA SHEET (MSDS):**

- Additional information is listed in the Material Safety Data Sheet, which can be obtained from the supplier.

**PROTECTION OF FISH, CRUSTACEANS AND THE ENVIRONMENT:**

- Dangerous to fish. Do not contaminate streams, rivers and waterways with the product or used containers.

**DISPOSAL**

- Do not dispose of undiluted chemicals on-site.
- Break, crush, puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burnt.

**STORAGE**

- Store below 30°C (room temperature) in the closed, original container, in a dry, well-ventilated area, and protect from sunlight.

**CONDITIONS OF SALE:**

- All WSD Agribusiness products are of a high quality, being subjected to rigid quality control. The manufacturer, however, is unable to control the product’s subsequent handling or use or the circumstances of each handling or use. This product is sold on the express condition that neither the manufacturer nor the distributor is under any liability for any loss or damage that may arise through such handling or use. If these conditions are unacceptable the container should be returned unopened for credit.

Registered, manufactured and distributed in Australia by:

**WSD Agribusiness Pty. Ltd.**

Koojan Ave, South Guildford WA 6055
Ph: (08) 9321 2888 Fax: (08) 9479 4088
Email: contact@wsdagribusiness.com

APMVA Approval No: 39062/20L/0209