



TECHNICAL NOTES

Cyro-fly 500

Spray-On Sheep Blowfly Treatment



Active Constituents

Cyromazine 500 g/L

Actions

Cyromazine is a triazine insect growth regulator (IGR) active against ova and larvae of flies but with a low toxicity for mammals. IGRs can act to mimic the effects of endogenous insect growth hormone (juvenile hormone), which acts in the regulation of insect development and metamorphosis, or to inhibit chitin (exoskeleton) formation. Cyromazine acts to prevent the moulting of L1 to L2 larvae. Female blowflies (*Lucilia cuprina*) can lay up to 3,000 eggs over a three week period. Under ideal conditions, the L1 larvae will hatch out in twelve hours. They will cause no damage, and will moult to the L2 which feed and moult to the L3 larvae in a period of three to ten days. The L2 and L3 larvae cause damage to the animal. The L3 larvae will pupate in the soil, and in three to seven days form the adult fly. Cyro-Fly 500 prevents L1 larvae from moulting to L2 larvae, thus preventing fly strike from developing.

Indications

Protection of long wool sheep for up to 14 weeks from strike by cyromazine-susceptible blowfly (*Lucilia cuprina*), including organophosphate resistant strains, when applied by jetting or dipping.

Contraindications

This product is contraindicated for use on open wounds, e.g. those resulting from marking or mulesing operations. This product should not be used on sheep with less than 6 weeks wool as a reduced period of protection may result. DO NOT USE on female sheep which are producing, or may in future produce milk or milk products for human consumption.

Withholding Periods

Meat: DO NOT USE less than 7 days before slaughter for human consumption.

Milk: DO NOT USE on female sheep which are producing, or may in future produce milk or milk products for human consumption

Wool Harvest Interval: DO NOT USE less than 2 months before shearing or fibre collection.



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Trade Advice

Export Slaughter Interval (ESI)

DO NOT USE less than 21 days before slaughter for export. The ESI on this label was correct at the time of label approval. Before using this product, confirm the current ESI from Jurox Pty Limited on 1800 023 312 or the APVMA website (www.apvma.gov.au/residues).

Sheep Rehandling Interval

After treatment wait until sheep are dry before rehandling.

Dosage and Administration

Application before the expected onset of a fly challenge is preferred.

This product is to be used on sheep with at least six weeks' wool growth (long wool).

Dipping sheep heavily infested with grass seeds is not recommended.

If used in jetting races a reduced period of protection may result.

Heavy rain following the application of this product could diminish the period of protection.

Lightly dag the sheep before crutch application, but ensure enough wool is present to hold the jetting fluid.

Mixing: Shake Well Before Use

Settling may occur after storage for some weeks. Stir product or invert container several times before opening. Pour the liquid into the vat through a strainer to remove any dry particles or flakes which can occasionally occur under hot storage conditions. Stir well. This product is readily dispersible in both soft and hard water.

Dilution: Dilution rate: 2 mL per 1 L water (Examples: 400 mL per 200 L, 2 L per 1000 L).

Maintenance of Dips:

1. Clean out dip, sump and spray lines thoroughly before charging. Disinfect with a registered bacteriostat at the manufacturer's recommended rate.
2. DO NOT use old fouled wash. Shower dips should be emptied and cleaned out at the end of each day's dipping. Plunge dips should be emptied and cleaned out within 5 days of charging and more frequently if conditions favour post-dipping lameness infection, except in WA where plunge dips and sumps should be emptied daily.
3. Before use, stir well.

Jetting: Jet the sheep at onset of fly wave with efficient equipment which is able to maintain the pressure of about 550 kPa.

Use 300 – 400 kPa for lambs and ewes in lamb.

Bacteriostat: This product does not contain a bacteriostat. For control of post-dipping infections, a registered bacteriostat should be added at the manufacturer's recommended rate.





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Animal Pest	Treatment	Initial Charge	Topping Up	Critical Comments
Sheep Blowfly control (<i>Lucilia cuprina</i>)	Jetting	2L per 1000 L	-	<ol style="list-style-type: none">1. Apply 2–4 L of jetting fluid per sheep, depending on sheep size and wool length.2. Ensure saturation to the skin.3. Pay particular attention to treatment of the crutch, pizzle and poll.4. Jet at onset of blowfly waves.5. This product is not recommended for use in jetting races because a reduced period of protection may result.
	Dipping (Plunge, shower and constant)	2L per 1000 L	2L per 1000 L	<ol style="list-style-type: none">1. Dip sheep at onset of fly wave.2. Thoroughly saturate sheep. When using a shower dip, run top and bottom sprays independently to ensure maximum pressure and therefore penetration.3. The product is a non-stripping dip, so there is no need to reinforce during dipping.
	Dressing	2L per 1000 L	-	<ol style="list-style-type: none">1. Clip the wool surrounding the strike. Treat the struck area and the surrounding wool with a recommended diazinon knockdown product, then thoroughly jet the sheep with Cyro-Fly 500.2. This product is a slow killing larvicide and, when used on its own, larvae may take 3 – 4 days to die.

Safety Directions

May irritate the eyes and skin. Avoid contact with eyes and skin. When opening the container and preparing the spray/dip/dressing wear cotton overalls buttoned to the neck and wrist, a washable hat and elbow-length PVC gloves. When using the prepared spray/dip/dressing wear protective waterproof clothing and PVC or rubber apron, elbow length PVC gloves, face shield and water resistant footwear. After use, and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield and contaminated clothing.

First Aid

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 1126.

Presentation

Suspension: 7 L





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Storage

Store below 30°C (room temperature). Store in original container, tightly closed in a safe place. Do not store for prolonged periods in sunlight.

Poisons Schedule

Nil

Registration Number

APVMA No. 52967

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