

**READ SAFETY DIRECTIONS BEFORE OPENING OR USING**

**BIOPREN<sup>®</sup> 4GR  
MOSQUITO LARVICIDE**

**ACTIVE CONSTITUENT: 4 g/kg (S)-METHOPRENE**

**GROUP**

**7A**

**INSECTICIDE**

**FOR THE PREVENTION OF ADULT MOSQUITO EMERGENCE**

**Net contents: 20 kg**

Distributed by:  
Garrards Pty Ltd.  
32 Kenworth Place, Brendale, Qld 4500  
Phone: (07) 3881 1693

Active constituent manufactured by:  
Bábolna Bioenvironmental Centre Ltd  
Szállás u. 6.  
H-1107 Budapest X,  
Hungary

## DIRECTIONS FOR USE

**Restraint:** Prior to applying to areas grazed by livestock, users must notify livestock producers of the withholding period.

SITE	PEST	RATE kg/ha	CRITICAL COMMENTS
Freshwater swamps and marshes, salt and freshwater lagoons, salt marshes, mangrove swamps, estuarine areas woodland pools, any natural water holding features. For use in open water or where water is obscured by vegetation.	<i>Aedes</i> , <i>Anopheles</i> , <i>Culex</i> , and <i>Ochlerotatus</i> spp.	3	Use this rate when water is shallow (< 30 cm), clean and where larval mosquito counts are low (< 10 per dip).
		4	Use this rate when water is deep (> 30 cm), vegetation and/or pollution are present, and/or where mosquito larval counts are high (> 10 per dip).
		5	This rate should only be used when the major target mosquito species is <i>Culex sitiens</i> .

**DO NOT BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION**

Users in NSW must comply with the NSW Clean Waters Act 1970 and its subsequent amendments.

**WITHHOLDING PERIODS: NO WITHHOLDING PERIOD IS REQUIRED FOR LIVESTOCK CONSUMING THE TREATED WATER IF THE PRODUCT IS APPLIED DIRECTLY INTO WATER.**

**IF THE PRODUCT IS APPLIED TO DRY SITES (PRIOR TO FLOODING OR RAINFALL) THEN THE FOLLOWING WITHHOLDING PERIOD MUST BE OBSERVED:**

**LIVESTOCK THAT GRAZE VEGETATION OR SOIL WITHIN 14 DAYS OF APPLICATION MUST BE PLACED ON CLEAN FEED FOR A PERIOD OF 21 DAYS PRIOR TO SLAUGHTER.**

### GENERAL INSTRUCTIONS

**Always keep unused product as dry as possible.**

BIOPREN 4GR prevents the emergence of adult mosquitoes, including common *Aedes*, *Anopheles*, *Culex* and *Ochlerotatus* spp. from treated sites. Treated larvae continue to develop normally to the pupal stage after which they fail to emerge. BIOPREN 4GR has sufficient activity to be effective against existing broods when applied to any larval stage at recommended rates. Third and fourth larval stages are more susceptible to the effects of (S)-methoprene than earlier stages. (S)-methoprene has no effect on mosquitoes which have reached the pupal or adult stage prior to treatment.

### Application:

BIOPREN 4GR can be applied prior to flooding by tides, or at any larval stage after flooding by rain or tide, or in permanent water sites.

**Aerial:** Apply by fixed-wing aircraft or helicopters equipped with granular spreaders capable of applying rates from 2-5 kg/ha.

**Ground:** Apply by hand or by using ground equipment capable of achieving good, even coverage. A guide to the weight or volume of Biopren 4GR at rates typically used

to treat small areas is given in the following table:

Area to be treated	3 kg BIOPREN 4GR/ha rate		4 kg BIOPREN 4GR/ha rate	
	By weight, g	By volume, mL	By weight, g	By volume, mL
10 m <sup>2</sup>	3 g	2 mL	4 g	2.5 mL
100 m <sup>2</sup>	30 g	20 mL	40 g	25 mL

### INSECTICIDE RESISTANCE WARNING

**GROUP 7A INSECTICIDE**

For insecticide resistance management, BIOPREN 4GR is a Group 7A insecticide. Some naturally occurring insect biotypes resistant to BIOPREN 4GR and other Group 7A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if BIOPREN 4GR or other Group 7A insecticides are used repeatedly. The effectiveness of BIOPREN 4GR on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Bábolna Bioenvironmental Centre accepts no liability for any losses that may result from the failure of BIOPREN 4GR to control resistant insects.

### PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply when weather conditions favour drift from treated areas.

### STORAGE AND DISPOSAL

Keep out of reach of children. Store in the closed, original container in a dry, cool, well ventilated area, out of direct sunlight. Store away from animals. DO NOT store with food, feedstuffs, seed and fertilisers.

Shake contents of product into the applicator. Do not dispose of undiluted chemicals on-site. Break, crush or puncture and bury empty containers in a local authority landfill. If not available bury the containers below 500 mm 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.

### SAFETY DIRECTIONS

May irritate the eyes. Repeated exposure may cause allergic disorders. Avoid contact with eyes. When preparing product for use wear elbow-length PVC gloves. If applying by hand wear elbow-length PVC gloves. Wash hands after use. After each day's use, wash gloves.

### FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (Ph 131126).

### Material Safety Data Sheet

If additional hazard information is required, refer to the Material Safety Data Sheet.

### WARRANTY AND EXCLUSION OF LIABILITY

This product is warranted fit for the purposes specifically recommended by Bábolna Bioenvironmental Centre (Hungary) when used strictly as directed on this label. All other warranties and obligations for liabilities, whether expressed or implied by statute or otherwise, are excluded to the full extent that exclusion is permitted by law.

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Batch Number:

Date of Manufacture: