

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

BARMAC

BTI 1200

Biological Mosquito Larvicide

**ACTIVE CONSTITUENT: BACILLUS THURINGIENSIS ISRAELENISIS,
serotype H14 active solids and solubles**

GROUP 11A INSECTICIDE

An aqueous suspension concentrate for control of mosquito larvae in salt and fresh water breeding areas by ground or aerial application by Ultra Low Volume (ULV) techniques or diluted with water.

Contents: 10 Litres



APVMA Approval No.: 62305/125245

Batch No.:

Expiry date:

BARMAC

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DIRECTIONS FOR USE - FOR USE IN ALL STATES

SITUATION	PEST	RATE/ha	CRITICAL COMMENTS
Stagnant ponds, ditches, standing flood or irrigation water up to 15cm deep	Larvae of mosquitoes including:- <i>Culex annulirostris</i> , <i>Aedes notoscriptus</i> , <i>Anopheles annulipes</i> <i>Culex australicus</i>	300 mL to 600 mL	Early stage larvae are most susceptible. That is, 1st to early 4th instar. Pupae are not affected as they are not feeding.
Sites as listed above up to 30 cm deep		600 mL to 1.2 L	Further treatment may be needed if larvae reappear, usually after 5-10 days.
Standing tidal water and salt marshes with water up to 30 cm deep	Larvae of mosquitoes including:- <i>Aedes vigilax</i> <i>Culex sitiens</i>	600 mL to 1.2 L	Use the higher rates under situations of high larval numbers or under difficult application conditions such as high levels of organic matter or increased water depth.
Sewage settling ponds and similar sites with moderate to high organic content	Larvae of mosquitoes:- Any of the above species, <i>Culex quinquefasciatus</i>	1 to 2 L	

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

NO WITHHOLDING PERIOD IS REQUIRED, BUT WATER FOR HUMAN DRINKING SHOULD NOT BE SPRAYED.

GENERAL INSTRUCTIONS

APPLICATION METHOD: Barmac BTI 1200 may be applied by properly calibrated conventional aerial or ground spray equipment.

Applications may be diluted with reasonably clean water or applied as ULV with no dilution provided that the application equipment provides an even spread of product over the target area. The amount of water needed will depend on weather, type of equipment and mosquito habitat. The objective is to deposit the required quantity of product to the breeding site where it will be ingested by feeding larvae.

Ground applications through conventional spraying equipment can be at rates as high as 1,000L of diluted spray per hectare although far lower rates can be applied when using equipment such as misting machines.

Aerial application as either undiluted ULV or diluted with water can be made with fixed wing aircraft or helicopters using conventional boom and nozzles or rotary mist atomizers.

MIXING: Agitate or thoroughly mix the contents before use.

For diluted applications add the appropriate amount of water to the spray tank or hopper and agitate while adding the measured amount of Barmac BTI 1200. Maintain moderate agitation during spraying but do not over agitate as this may change the physical characteristics of the formulation. DO NOT mix with alkaline or dirty water.

Applications of undiluted product as ULV do not need agitation once the contents are loaded.

INSECTICIDE RESISTANCE WARNING:

GROUP 11A INSECTICIDE

For insecticide resistance management, Barmac BTI 1200 Biological Mosquito Larvicide is a Group 11A Insecticide. Some naturally occurring insect biotypes resistant to Barmac BTI 1200 and other Group 11A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Barmac BTI 1200 or Group 11A insecticides are used repeatedly. The effectiveness of Barmac BTI 1200 on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Barmac (A division of Amgrow Pty Ltd) accepts no liability for any losses that may result from the failure of Barmac BTI 1200 to control resistant insects.

Barmac BTI 1200 Biological Mosquito Larvicide may be subject to specific resistant management strategies. For further information contact your local supplier, Barmac representative or local agricultural department agronomist.

PROTECTION OF LIVESTOCK, WILDLIFE AND OTHERS: Empty containers must not be reused. The containers should be disposed of in an approved manner. DO NOT contaminate ponds, waterways or drains with the product or the used containers.

STORAGE AND DISPOSAL: Store in the closed original container in a dry, well ventilated area, as cool as possible and out of direct sunlight. This product is a biological larvicide containing crystals of protein and bacterial spores. Activity can be impaired unless protected from high temperatures at all times. Do NOT expose the product to temperatures above 30°C for any length of time. This includes during transport or short term storage on airstrips etc.

Triple-rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

SAFETY DIRECTIONS: Avoid contact with eyes and skin. Do not inhale vapour OR spray mist. When opening the container and preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and disposable mist or fume face mask covering mouth and nose. When using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves. 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 and contaminated clothing.

FIRST AID: First aid is not generally required. If in doubt, contact a Poisons Information Centre (e.g. phone Australia 13 11 26) or a doctor.

SAFETY DATA SHEET: Additional information is listed in the SDS, available from www.barmac.com.au.

Notice: This product is designed only for the particular purposes indicated on the label. Failure to use the product strictly as directed may be illegal, prove dangerous and render the product ineffective. The buyer or user is responsible for any misuse or negligence in the handling, storage, use of or disposal of this material. Amgrow Pty Ltd will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply and use of this product other than those responsibilities mandatorily imposed by Statutes applicable to the sale and supply of these goods.

THIS PRODUCT IS NOT CONSIDERED TO BE A DANGEROUS GOOD UNDER THE AUSTRALIAN CODE FOR THE TRANSPORT OF DANGEROUS GOODS BY ROAD AND RAIL.