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BRIGADE[®]

GRANULAR INSECTICIDE

ACTIVE CONSTITUENT: 2g/kg BIFENTHRIN

GROUP 3A INSECTICIDE

For the control of certain pests in turf; ants, fleas and ticks in external surrounds of buildings and structures as specified in the Directions for Use Table

Net Contents: 15 kg

FMC[®]

FMC (CHEMICALS) PTY LTD
Unit 6, 9 Archimedes Place, Murarrie Qld 4172
Contact Number 1800 066 355



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DIRECTIONS FOR USE

Restraint:

Do NOT apply inside buildings.

Do NOT apply within 2m of water (ponds, creeks, dams, drains, etc).

Situations	Pest	Rate kg/ha	Rate kg/100m ²	Critical Comments
Turf (For example: lawns, commercial turf farms, parks, recreational areas, golf courses, bowling greens, sports fields)	Lawn Armyworm (<i>Spodoptera maurita</i>) Sod Webworm (<i>Herpetogramma licarsisalis</i>)	60	0.6	Broadcast Brigade with suitable application equipment to ensure uniform coverage over the treatment area. To ensure optimum control, irrigate the treated area with up to 4mm of water immediately after application. Inspect treated areas for continuing activity. Reapply as required.
	Argentine stem weevil adults (<i>Listronotus bonariensis</i>)	60-120	0.6-1.2	
	African black beetle (<i>Heteronychus arator</i>)	120-180	1.2-1.8	
	Billabug adults (<i>Sphenophorus brunnipennis</i>)	60-120	0.6-1.2	
	Black Ants, Coastal Brown Ants, Funnel Ants, Meat Ants, Sugar Ants, Stinging Ants Only	60-220	0.6-2.2	Broadcast Brigade with suitable application equipment to ensure uniform coverage over the treatment area. Apply granules to areas where ants are active. Where possible apply granules directly to the nest. Use the low rate for maintenance treatments or to control light infestations. Use the high rate for heavy infestations and for maximum residual control. The elimination of funnel ants from a particular site will generally require more than one application. Initial applications should be broadcast over affected areas. As the number of active colonies is reduced, application should shift to targeting active mounds. Apply granules directly to the mound and in the area immediately surrounding active mounds (300 mm radius).
External surrounds of buildings and structures	Black Ants, Coastal Brown Ants, Funnel Ants, Meat Ants, Sugar Ants, Stinging Ants Only	60-220	0.6-2.2	Apply granules to areas where ants are active. Where possible apply granules directly to the nest. Use the low rate for maintenance treatments or to control light infestations. Use the high rate for heavy infestations and for maximum residual control. Perimeter Application: Where perimeter pest control is being implemented apply Brigade in a two or three metre band, around and adjacent to the building or structure. Pad Mounted Electrical Sites: To reduce or prevent ant mound building activity on electrical pads, uniformly distribute 60 to 220 grams of Brigade per 10m ² of mounting pad. Where existing transformers are completely or partially filled with soil excavated by resident ants, remove any excess fill and level the remaining soil prior to application.
	Fleas (Adults & Larvae) (<i>Ctenocephalides spp.</i>)	110-220	1.1-2.2	Flea larvae develop in the soil of shaded areas that are accessible to pets or other animals. For optimum results irrigate the treated areas with up to 10mm of water immediately after application. Use higher application rates when treating areas with dense ground cover or heavy leaf litter.
	Ticks (<i>Ixodes spp.</i>)	110-220	1.1-2.2	Applications should be made in spring to control larvae and nymphs that reside in the soil and leaf litter. Do not make spot applications. Treat the entire area where exposure to ticks may occur. Use higher application rates when treating areas with dense ground cover or heavy leaf litter. Ticks may be reintroduced from surrounding areas on host animals. Retreat as necessary to maintain adequate control.



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GENERAL INSTRUCTIONS

For optimum results use a properly calibrated granule applicator.

RESISTANCE WARNING

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For insecticide resistance management Brigade is a Group 3A insecticide. Some naturally occurring insect biotypes resistant to Brigade and other Group 3A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Brigade or other Group 3A insecticides are used repeatedly. The effectiveness of Brigade on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, FMC (Chemicals) Pty Ltd accepts no liability for any losses that may result from the failure of Brigade to control resistant insects. Brigade may be subject to specific resistance management strategies. For further information contact your local supplier, FMC(Chemicals) Pty Ltd representative or local agricultural department agronomist.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Dangerous to fish and aquatic organisms. DO NOT contaminate dams, rivers, streams waterways or drains with product or the used container.

PROTECTION OF PETS AND LIVESTOCK

Before treatment, remove animals and pets from the areas to be treated. Cover or remove any open food and water containers. Keep away from domestic pets, especially dogs. If dogs eat the granules, contact your veterinary surgeon immediately. Use with caution around pets - ensure product is well dispersed ie. swept in between pavers, cracks, and crevices and dispersed into soil and/or lawn. Cover or remove fishponds, aquariums etc before application. DO NOT apply Brigade within 2 metres of a fishpond or water containing fish or aquatic species.

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well ventilated area out of direct sunlight.

Spillage - Dispose of waste as indicated below or according to the Australian Standard AS 2507 - Storage and Handling of Pesticides. Do NOT allow spilled product to enter sewers, drains, creeks or any other waterways.

Shake containers empty onto treatment site. Puncture or shred and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers should not be burnt.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

MATERIAL SAFETY DATA SHEET (MSDS)

Additional information is listed in the Material Safety Data Sheet.

WARRANTY

FMC (Chemicals) Pty Ltd makes no warranty expressed or implied, concerning the use of this product other than that indicated on the label. Except as so warranted the product is sold as is. Buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage is contrary to label instructions.

DOM:

Batch Number:

APVMA Approval Number: 52791/15KG/1104

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