

CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING



Columbus Insecticide

Active Constituent: 250 g/L thiamethoxam

For the control of African Black Beetle, Argentinian Scarab and Billbug in Turf

GROUP	4A	INSECTICIDE
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APVMA Approval No: 68967_59512

Pack Size: 1L, 10L

DIRECTIONS FOR USE

DO NOT apply aerially.

DO NOT apply if heavy rain is forecast.

Situation	Pests	Rate	Critical Comments
Turf, lawns	First instar larvae of African Black Beetle (<i>Heteronychus arator</i>)	800mL to 1.2 L/ha in at least 500 L water per ha	Apply prior to or at peak egg hatch, mid spring to early summer, or when small larvae are present. Ensure product placement as close to soil surface as possible. Total application volume should not be lower than 500 L/ha. For best results use extremely coarse droplets [Turbo Floodjet* (TF5) or TurfJet* (TTJ10)]. Preferably spray onto wet or dewy grass. Irrigate with 6 to 12 mm of water commencing within 1 hour of application.
	First and second instar larvae of Argentinian Scarab (<i>Cyclocephala signaticollis</i>)		
	Larvae of Billbug (<i>Sphenophorus brunnipennis</i>)		Monitor adult activity through late spring and early summer. Spray when numbers peak or when small larvae (4 mm) are found in the thatch or surface soil. Early application is essential to minimise grass damage due to feeding. Use the higher rate when pest pressure is high or 2nd instar larvae are present. Ensure product placement as close to soil surface as possible. Total application volume should not be lower than 500 L/ha. For best results use extremely coarse droplets [Turbo Floodjet* (TF5) or TurfJet* (TTJ10)]. Preferably spray onto wet or dewy grass. Irrigate with 6 to 12 mm of water commencing within 1 hour of application.

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

WITHHOLDING PERIOD

DO NOT GRAZE TREATED TURF/LAWN OR FEED TURF/LAWN CLIPPINGS FROM ANY TREATED AREA TO POULTRY OR LIVESTOCK

GENERAL INSTRUCTIONS

INSECTICIDE RESISTANCE WARNING

GROUP	4A	INSECTICIDE
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For insecticide resistance management Turf Culture Columbus Insecticide (hereinafter 'Columbus Insecticide') is a Group 4A insecticide. Some naturally occurring insect biotypes resistant to Columbus Insecticide and other Group 4 insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Columbus Insecticide or other Group 4 insecticides are used repeatedly. The effectiveness of Columbus Insecticide on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Turf Culture Pty Ltd accepts no liability for any losses that may result from failure of Columbus Insecticide to control resistant insects. Columbus Insecticide may be subject to specific resistance management strategies. For further information contact your supplier, Turf Culture Pty Ltd representative or local agricultural department agronomist.

MIXING

Add the required amount of Columbus Insecticide to clean water in half-filled spray tank with the agitator or by-pass in operation. Maintain agitation while filling tank with remainder of water. Agitate whilst spraying.

APPLICATION

To be effective Columbus Insecticide requires to be placed as close to the soil surface as possible. Ensure that equipment is properly calibrated to give an even distribution at the correct volume. Apply in a minimum of 500 L water/ha. For best results use extremely coarse droplets [Turbo Floodjet* (TF5) or TurfJet* (TTJ10)].

COMPATIBILITY

As formulations of other manufacturer's products are beyond the control of Turf Culture Pty Ltd, and water quality varies with location, all mixtures should be tested prior to mixing commercial quantities.

PRECAUTION

Re-entry Period

DO NOT enter treated areas until the spray has dried, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each days use.

PROTECTION OF LIVESTOCK

Dangerous to bees. DO NOT spray any plants in flower while bees are foraging. DO NOT graze treated turf/lawn, or feed turf/lawn clippings from any treated area to poultry or livestock.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Toxic to certain aquatic invertebrates. DO NOT apply under weather conditions, or from spraying equipment, that may cause spray drift onto adjacent areas, particularly wetlands, water-bodies or watercourses. DO

NOT contaminate streams, rivers or waterways with the product or used containers.

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Triple or preferably pressure 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 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 and product should not be burnt.

SAFETY DIRECTIONS

May irritate the eyes. Avoid contact with eyes. When opening the container, mixing and loading, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length chemical resistant gloves. If applying by spraying equipment carried on the back of the user, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length chemical resistant gloves. Wash hands after use and after each day's use, wash gloves and contaminated clothing.

FIRST AID

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

MATERIAL SAFETY DATA SHEET

For further information refer to the Material Safety Data Sheet (MSDS), which is available from the supplier or from the manufacturer's website: www.turfculture.com.au

CONDITIONS OF SALE

The use of Turf Culture Columbus Insecticide being beyond the control of the manufacturer, no warranty expressed or implied is given by Turf Culture Pty Ltd regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Turf Culture Pty Ltd accepts with no responsibility for any consequences whatsoever resulting from the use of this product.

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