

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

*Nufarm*  
**MALLET<sup>TM</sup>**  
**TURF & ORNAMENTAL INSECTICIDE**

ACTIVE CONSTITUENT: 200 g/L IMIDACLOPRID

GROUP	<b>4A</b>	INSECTICIDE
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For the control of a range of insect pests in turf and ornamental situations as per the Directions for Use table.

**CONTENTS: 1, 2.5 and 5 Litres**

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**DIRECTIONS FOR USE****TURF AND ORNAMENTALS – Foliar Application**

<b>Situation</b>	<b>Pest</b>	<b>Rate</b>	<b>Critical Comments</b>
Turf	First instar larvae of: African Black beetle Argentinian scarab Pruinose scarab	2.5 L/ha or 25 mL/100m <sup>2</sup>	Apply at peak egg hatch, that is mid spring to mid summer depending on species.
	Larvae of billbug	Spray with at least 400L water per hectare to ensure even coverage. Preferably spray on to wet or dewy grass. Irrigate with 12 mm of water commencing within one hour of application.	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.
Duboisia	Green peach aphid	25 mL/100L	Apply when aphid numbers reach spray threshold levels as determined by regular monitoring. Ensure thorough coverage of all leaves.
Ornamentals plants	Aphids Azalea lace bug Bronze orange bug Harlequin bug Citrus mealybug Greenhouse thrips Fullers rose weevil		Apply as a thorough cover spray at first sign of insect infestation.
	Hibiscus flower beetle	50 mL/100 L	Spray buds and flowers as needed.
	Longtailed mealybug	50 mL/100 L + surfactant	Apply 3 sprays 2 weeks apart. Use a non-ionic surfactant at label rate.
	Psyllids	25 mL/100 L	Spray at first sign and then a week later.
	Soft scales		Spray in late spring or when small scales are first seen. Apply 3 sprays 2 weeks apart. Add a wetting agent.
	Pandanus trees	Flatid ( <i>Jamella australiae</i> )	<b>Spot spray</b> 875 mL/100 L of water  <b>Stem injection</b> 1.75 L/1 L of water
Roses	Aphids	25 mL/100L	Apply as a thorough cover spray at first sign of insect infestation.

**ORNAMENTALS – Soil Drench Application**

For soil drench treatments, remove mulch and dead vegetation, and moisten the soil surface first. Apply the MALLET mixture, then water it in well immediately after application.

<b>Situation</b>	<b>Pest</b>	<b>Rate</b>	<b>Critical Comments</b>
Azaleas in pots	Azalea lace bug	3.5 mL/250 mL water/pot	Use as a soil drench for pots up to 20 L capacity.
Elm	Elm leaf beetle	7 mL/25 mm of tree diameter at breast height	Use as a soil drench application. Mix the required dose in sufficient water to adequately treat each tree. Use at least 50 L of mix per tree up to a tree diameter of 400-500 mm and then 100 L per tree for larger trees. Inject mix to a depth of 20-30 cm in a minimum of 4 injection sites per tree, 0.75 to 1.5 m apart, arranged in an evenly spaced grid to just beyond the drip line. Ensure root zone is adequately moist with active root growth. Keep treated area moist for 7-10 days after treatment. Treat at least 6-10 weeks prior to pest attack in late winter or early spring when roots are active. <b>DO NOT</b> treat if soil is waterlogged.
Ornamentals in pots	Scarab beetle larvae	3.5 mL/5 L water	Use as a soil drench. 5 L of mixture will treat twenty 6L pots.
Roses	Aphids	3.5 mL/2 L water/plant	Use as a soil drench by pouring mixture evenly around drip zone. Use this rate for plants up to 1 m high. For each additional metre of plant height, add 2 mL extra of MALLET to the 2 L of water.
Seedling eucalypts (to 1 m high) in pots	Chrysomelid beetle larvae, Psyllids	2.5 mL/plant	Mix in water up to 0.5L per 3 L pot and apply to soil. Use less water for smaller pots. Do not dilute to the point where mix runs out the bottom of pots.

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

**GENERAL INSTRUCTIONS****Insecticide Resistance Warning**

<b>GROUP</b>	<b>4A</b>	<b>INSECTICIDE</b>
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For insecticide resistance management, Nufarm Mallet Turf & Ornamental Insecticide is a Group 4A insecticide.

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

***Insecticide Resistance Management Strategy*** for aphids other than green peach aphid and cotton aphid, whitefly and melon thrips: Do not apply MALLET (or other group 4A insecticides) in consecutive sprays. Rotate with registered insecticides from other mode of action groups.

***Confined environments such as glasshouses:***

**Annuals:** Do not apply more than one spray of MALLET (or other group 4A insecticides) to any one crop.

**Perennials:** Rotate with registered insecticides from other groups. Use a maximum of three MALLET (or other group 4A insecticides) sprays in any 12 month period.

***Note on Ornamentals***

MALLET has been used on a wide range of ornamental plant species without damage. However, some species and varieties are particularly sensitive to chemical sprays and as this is often related to local conditions it is advisable to treat only a small number of plants first, in order to ascertain their reaction before treating the whole crop.

**Mixing**

Prior to pouring, shake container vigorously, then add the required quantity of MALLET to water in the spray vat while stirring or with agitators in motion.

MALLET should not be mixed with other pesticides or fertilisers.

**PROTECTION OF LIVESTOCK**

Dangerous to bees. DO NOT spray any plants in flower while bees are foraging.

DO NOT graze any treated turf or feed turf clippings from any treated area to poultry or livestock.

**PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT**

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

**STORAGE AND DISPOSAL**

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in 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**

Harmful if swallowed. May irritate the eyes and skin. Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin. When preparing product for use, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. Wash hands after use. After each day's use, wash gloves, goggles and contaminated clothing.

**FIRST AID**

If poisoning occurs, contact a doctor or Poisons Information Centre. *Phone Australia 131126.*

**MATERIAL SAFETY DATA SHEET**

Additional information is listed in the Material Safety Data Sheet which can be obtained from your supplier.

**CONDITIONS OF SALE**

“Any provisions or rights under the Trade Practices Act 1974 or relevant state legislation which cannot be excluded by those statutes or by law are not intended to be excluded by these conditions of sale. Subject to the foregoing, all warranties, conditions, rights and remedies, expressed or implied under common law, statute or otherwise, in relation to the sale, supply, use or application of this product, are excluded. Nufarm Australia Limited and/or its affiliates (“Nufarm”) shall not accept any liability whatsoever (including consequential loss), or howsoever arising (including negligence) for any damage, injury or death connected with the sale, supply, use or application of this product except for liability which cannot be excluded by statute.”

‘Mallet’ trademark pending.

**In case of emergency: Phone (1800) 033 498**

Ask for shift supervisor. Toll free 24 hours.

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APVMA Approval No.: 60585/1L/0606  
60585/2.5L/0606  
60585/5L/0606

BN:

DOM:

(Barcode, *drumMUSTER* logo and label print code to be inserted)