

Primary Label

POISON

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

**Zooter Soil Guard
INSECTICIDE**

ACTIVE CONSTITUENT: 350 g/L IMIDACLOPRID

GROUP 4A INSECTICIDE

A soil applied treatment for the control of greyback and Childers canegrub in sugar cane and silverleaf whitefly in various vegetable crops as specified in the DIRECTIONS FOR USE table.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USING THIS PRODUCT.

CONTENTS 1L, 5L, 10L, 200L

SHERWOOD CHEMICALS AUSTRALASIA PTY LTD

LEVEL 3, 1060 HAY STREET

WEST PERTH 6005

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www.sherwoodchemicals.com.au

APVMA Approval No:

BATCH NUMBER:

DATE OF MANUFACTURE:

PROTECTION OF WILDLIFE, FISH, CRUSTAEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or used container. Imidacloprid is toxic to certain aquatic species.

Application should be planned to avoid run-off within 48 hours of application. Application should not be made to wet/waterlogged soils.

Application is not to be performed if heavy rains are expected to occur within 48 hours.

Irrigation run-off from treated areas should be prevented from entering drains and waterways.

Sugarcane: Irrigation should not occur within 48 hours of application. Vegetables (furrow spray pre-plant and plant hole drench applications): Irrigation within 48 hours of application should be minimal, and sufficient to reduce seedling stress only.

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 container 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 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers or product should not be burnt.

SAFETY DIRECTIONS

Harmful if swallowed. Repeated exposure may cause allergic disorders. Wash hands after use. When preparing product for use, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbowlength PVC gloves and face shield. After each day's use, wash gloves, face shield and contaminated clothing.

FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre 131126

MATERIAL SAFETY DATA SHEET

For further information, refer to the Material Safety Data Sheet (MSDS) which is available from the supplier or from our web site, www.sherwoodchemicals.com.au

NOTICE TO BUYER

Sherwood Chemicals Australasia Pty Ltd (Sherwood Chemicals) shall not be liable for any loss, injury, damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence, use under abnormal conditions or otherwise in connection with the sale, supply, use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on Sherwood Chemicals skill or judgment in purchasing or using the product and every person dealing with this product does so at their own risk.

This product is NOT classified as a Dangerous Good under the Australian code for the transport of dangerous goods by road and rail.

For specialist advice in an emergency only, call 0421 667 972

Leaflet

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DIRECTIONS FOR USE**Restrains**

DO NOT use on crops produced hydroponically or in glasshouses and other covered situations. DO NOT apply Zooter Soil Guard or any other Group 4A Insecticide as a foliar spray after soil application of Zooter Soil Guard in that crop. DO NOT apply more than one application of Zooter Soil Guard per crop for vegetables, per ratoon crop for sugarcane.

CROP	PEST	RATE	CRITICAL COMMENTS
Sugar Cane (ratoon cane only)	Greyback canegrub	16-22 mL per 100 metres of cane row (equivalent to 1.05-1.44 L/ha for single row cane with 1.52 m Spacing between rows)	Apply from September to November to fields which are at high risk of greyback grub damage. In areas where early flights of beetles occur, application should be early within this period. Late applications where large 3 rd instar larvae dominate the grub population will not be as effective. Application should be made while stools are small enough to avoid excessive damage. Use the high rate when high grub populations are expected, e.g. an average greater than 4 grubs per stool. Apply only as a subsurface soil application behind coulters (refer to Application directions under GENERAL INSTRUCTIONS). Soil should have moisture at coulters depth at the time of application or should receive at least 15 mm of rainfall or irrigation within 1 week. DO NOT leave Zooter Soil Guard exposed to sunlight. After application ensure the Zooter Soil Guard treated band is covered by at least 100 mm of soil and that coulters slits are filled in completely. DO NOT apply more than once per season.
	Childers canegrub	11-16 mL per 100 metres of cane row (equivalent to 0.72-1.05 L/ha for single cane row with 1.52 m spacing between rows)	Apply from September to November. Check for the presence of grubs from September onwards. Apply Zooter Soil Guard when grub numbers reach an economic threshold (about 3 grubs per stool). Use the high rate when grub populations are high, e.g. an average greater than 5 grubs per stool or if application is late (damage already visible). Apply only as a subsurface soil application behind coulters (refer to Application directions under GENERAL INSTRUCTIONS). Soil should have moisture at coulters depth at the time of application or should receive at least 15 mm of rainfall or irrigation within 1 week. DO NOT leave Zooter Soil Guard exposed to sunlight. After application ensure the Zooter Soil Guard treated band is covered by at least 100 mm of soil and that coulters slits are filled in completely. DO NOT apply more than once per season.
Capsicum, cucurbits eggplant, sweet potato, tomatoes	Silverleaf whitefly, including type B	14 mL/100 metres of row	Sub-surface trickle irrigation injection. Apply once only 5 - 7 days after planting out (or 5 - 7 days from seed emergence if planted from seed). Begin injection only after water has reached the furthest drip points and soil is partially wetted up. After Zooter Soil Guard injection is completed, continue irrigation only until lines are flushed, not longer than 1 hour. DO NOT apply Zooter Soil Guard using surface trickle irrigation or any other type of above ground irrigation system. Subsequent irrigations should occur only when soil moisture measurements indicate the need for addition of water. Do not over irrigate or cause runoff. In situations where root development in the crop is slow, evidence of control may be delayed.
		14 mL/100 metres of row (Mix with water, using at least 2 litres of spray mixture per 100 m of row)	Furrow spray pre-plant. Apply to open furrow not earlier than 5 days prior to planting as a narrow band of spray centred under the plant row. Do not leave Zooter Soil Guard exposed to sunlight. Sprayed soil should be covered immediately. After final shaping of the planting bed, the treated layer of soil should be approximately 100 mm below the soil surface. At planting, steps should be taken to ensure workers do not contact treated soil.
Capsicum, eggplant, tomatoes		14 mL/100 metres of row (Mix with sufficient water to allow a constant volume of at least 50 mL of drench mixture per plant)	Plant hole drench. DO NOT apply Zooter Soil Guard by this method where plant spacing along the row exceeds 60 cm. Apply the selected volume of drench mixture in the planting hole at planting or within 2 days after planting. Steps should be taken to ensure workers do not contact treated soil or drench mixture.

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

WITHHOLDING PERIODS***Harvest*****NOT REQUIRED WHEN USED AS DIRECTED*****Grazing*****Sugarcane - DO NOT GRAZE OR CUT FOR STOCKFEED FOR 21 WEEKS AFTER APPLICATION****GENERAL INSTRUCTIONS****GROUP 4A INSECTICIDE**

Insecticide Resistance Warning: For insecticide resistance management, Zooter Soil Guard is a Group 4A insecticide. Some naturally occurring insect biotypes resistant to Zooter Soil Guard 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 Zooter Soil Guard and other Group 4A insecticides are used repeatedly. The effectiveness of Zooter Soil Guard on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Sherwood Chemicals Australasia Pty Ltd accepts no liability for any losses that may result from the failure of Zooter Soil Guard to control resistant insects. Zooter Soil Guard may be subject to specific resistance management strategies. For further information contact your local supplier, Sherwood Chemicals Australasia Pty Ltd representative or local agricultural department agronomist.

Resistance Management Strategy (vegetables): Do not apply more than one soil application of Zooter Soil Guard to each crop. Do not use Zooter Soil Guard or any Group 4A insecticide as a foliar spray after soil application of Zooter Soil Guard in that crop. Refer to district advice for local silverleaf whitefly resistance management strategies.

Export of Treated Produce: Growers should note that MRL's or import tolerances do not exist in all markets for edible produce treated with Zooter. If you are growing edible produce for export please check with Sherwood Chemicals Australasia Pty Ltd for the latest information on MRL's and import tolerances before using Zooter.

Note for Vegetable Crops: potential migration of silverleaf whitefly from neighbouring crops. Adult silverleaf whitefly (SLWF) are controlled when they ingest a lethal dose of active ingredient by feeding on a Zooter Soil Guard treated crop. However, in some very susceptible crops and varieties, the migration of large populations of adults from adjacent fields may result in significant feeding damage to the crop, although further reproduction and development of the pest will be prevented. To help prevent such damage it is important to minimise the migration of adult SLWF into a treated crop, e.g. by applying a 'clean-up' fast-acting insecticide to recently harvested crops. Consideration of factors such as planting sequences and timing, wind direction, variety selection, and general crop hygiene should also be integral to SLWF management. Crops should also be monitored for SLWF adult numbers after application of Zooter Soil Guard, and appropriate fast acting insecticides for control of adults should be applied if economic thresholds are reached or excessive adult feeding damage is observed.

Mixing: Prior to pouring, shake container vigorously, then add the required quantity of Zooter Soil Guard to water in the tank while stirring or with agitators in motion. Zooter Soil Guard requires constant agitation in the tank.

Application (sugarcane)

Apply only as a subsurface soil application. Apply in no less than 1.5 litres of water per 100 metres of cane row (equivalent to no less than 100 L/ha of water for single row cane with 1.52 m spacing between rows).

Greyback canegrub

Twin coulter method: Apply subsurface behind twin coulters to a depth of 100 - 125 mm. Coulters should be spaced 220 mm to 500 mm apart, one either side of the centre of the stool. Coulter slits should be in the sides or top of the stool mound rather than at the base. Narrow spacings may not be possible with advanced ratoon growth. DO NOT apply using narrow spacings if ratoon growth is advanced such that excessive crop damage from equipment may result. Single coulter method ("stool split"): Apply subsurface behind a single coulter in the centre of the stool. DO NOT apply using this method if ratoon growth is advanced such that excessive crop damage from equipment may result. This method is not suitable for all areas. Before using this method, consult your local Sherwood Chemicals Australasia Pty Ltd representative.

Childers canegrub

Twin coulter method: Apply subsurface behind twin coulters to a depth of 100 - 125 mm. Coulters should be spaced 220 to 350 mm apart, with one coulter on either side of the centre of the stool. **Application (vegetables):** Refer to instructions in Critical Comments for each application method.

Protection of Wildlife, Fish, Crustaceans and Environment: DO NOT contaminate streams, rivers or waterways with the chemical or used container. Imidacloprid is toxic to certain aquatic species. Application should be planned to avoid run-off within 48 hours of application. Application should not be made to wet/waterlogged soils. Application is not to be performed if heavy rains are expected to occur within 48 hours. Irrigation run-off from treated areas should be prevented from entering drains and waterways. Sugarcane: Irrigation should not occur within 48 hours of application. Vegetables (furrow spray pre-plant and plant hole drench applications): Irrigation within 48 hours of application should be minimal, and sufficient to reduce seedling stress only.

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Notice to Buyer

The use of this product is beyond the control of Sherwood Chemicals Australasia Pty Ltd (Sherwood Chemicals).

No warranty is expressed or implied regarding the suitability or efficiency for any purpose for which the buyer uses it. Sherwood Chemicals accepts no responsibility for any consequences resulting from the use of this product. Sherwood Chemicals not be held liable for any loss, injury or damage arising from the sale, supply

or use of this product, whether through negligence or otherwise. No responsibility will be accepted for any consequences whatsoever resulting from the use of this product.

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