

WARNING
KEEP OUT OF REACH OF CHILDREN



BALLISTIC[®] INSECTICIDE

GROUP 3 INSECTICIDE

For control of caterpillars, beetles, thrips and aphids on a broad range of fruit and vegetable crops and on trees and ornamentals.

READ THE ATTACHED BOOKLET COMPLETELY BEFORE MIXING OR APPLYING

Active Ingredient:

Contains 27.5 g/L DELTAMETHRIN in the form of an emulsifiable concentrate, also contains 811 g/L LIQUID HYDROCARBONS

UN No:	3082
DG Class:	9
Packing Group:	III
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Deltamethrin)
Marine Pollutant:	Yes
Batch number:	NET CONTENTS: 1 L, 5 L, 20 L, 20 L
Date of Manufacture:	
Expiry date:	
Barcode to be inserted	



REFER TO BOOKLET FOR FULL LABEL INSTRUCTIONS.**WARNING**

Combustible liquid. Harmful if swallowed. Dermal exposure may cause paresthesia (a sensation of burning, tingling, itching, or numbness). May cause damage to the nervous system through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects. Harmful to terrestrial vertebrates. Very toxic to terrestrial invertebrates (Toxic to bees).

HANDLING PRECAUTIONS

Keep out of reach of children. Read label carefully and follow all instructions. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not eat, drink or smoke while using this product. Do not breathe spray mist or vapours. Wear protective clothing and personal protective equipment as specified in the Personal Protection section below. Wash hands and any exposed skin thoroughly after handling. Do not apply onto or into water. Avoid contamination of any water supply with product or empty container. Collect spillages.

PROTECTION OF BEES

DO NOT spray on any plants in flower while bees are foraging. BALLISTIC INSECTICIDE is known to have a deterrent effect on foraging bees for a short period of time after spraying. Risk to bees is reduced by spraying in early morning and late evening while bees are not foraging.

PCBU RESPONSIBILITIES

A PCBU with management or control of work using this substance must ensure that every worker who uses, handles, manufactures, or stores this hazardous substance (including hazardous waste) is, before the worker is allowed to carry out or supervise work involving those substances, provided with adequate information, training and instruction. This includes the use of personal protective equipment to be used to minimise risks to the health and safety of workers when carrying out work using this substance.

QUALIFICATIONS REQUIRED FOR APPLICATION OF ENVIRONMENTALLY HAZARDOUS SUBSTANCES

Anyone who mixes, loads, or applies this product, either by air or ground based methods, is required to be suitably qualified, or must receive guidance and, if required, assistance from a suitably qualified person. Refer to Schedule 10 of the Hazardous Substances (Hazardous Property Controls) Notice 2017 for a list of suitable qualifications.

RECORD KEEPING

Where 3 L or more of the substance is applied within 24 hours, in a place where the substance is likely to enter air or water and leave the application area, a PCBU with management or control of the substance must ensure that a written record is kept of each application of the substance. Refer to Part 4 Clause 48 of the Hazardous Substances (Hazardous Property Controls) Notice 2017 for details of information that must be recorded.

EQUIPMENT

A PCBU with management or control of work using this substance must ensure that equipment used to handle this substance retains the substance, without leakage, at all of the temperatures and pressures at which the equipment is to be used; and dispenses or applies the substance, without leakage, at a rate and in a manner that the equipment is designed for. The PCBU must ensure that the equipment is accompanied by documentation that is readily available and readily understandable about the use and maintenance of the equipment.

STORAGE

Store in the original, unopened container in a cool, dry, well-ventilated place, out of direct sunlight and away from stockfeed or foodstuffs. In case of fire use water spray, water fog, or foam for extinction.

There are requirements when storing this product in a workplace, relating to labelling, safety data sheets, stationary container systems, separation distances, secondary containment, emergency response plans, and signage; and in a place other than a workplace, relating to stationary container systems, separation distances, emergency response plans, secondary containment, and signage.

Secondary containment and emergency response plans are required where greater than 100 L of this product are stored. Refer to the product SDS for further information.

TRANSPORT

Do not carry greater than 10 L of this product on a passenger service vehicle.

SHELF LIFE

When stored appropriately this product should show no significant degradation for two years from the date of manufacture. Contact your supplier for further information about the use of any product that is older than this.

PERSONAL PROTECTION

When mixing or spraying product, wear protective clothing such as waterproof hat, gloves, coat and trousers (worn outside rubber boots) and face shield or goggles. Remove protective clothing and wash hands and face



with soap and water before meals and after work.

SPILLAGE

Exclude all bystanders from the vicinity of the spill and prevent material from entering waterways. Wear appropriate protective clothing as in the personal protection section of this label to clean up spills. Absorb spills with an inert material (such as vermiculite, earth, sand or synthetic absorbent substance) and place in waste containers. Wash area with water and alkaline detergent. Then absorb any remaining liquid with further inert material. Dispose of the waste safely in an approved landfill.

DISPOSAL

Container Disposal - Triple rinse empty container and add rinsate to spray tank. Submit clean empty container to an Agrecovery® depot for recycling. Alternatively, puncture and bury in a suitable landfill. Avoid contamination of any water supply with product or empty container.

Product Disposal - Dispose of this product only by using according to the label, or through the Agrecovery® Chemical Recovery service or other approved facility.

Do not burn product or container.

SAFETY DATA SHEET

A safety data sheet for this product is available at www.adama.com.

FIRST AID

If medical advice is needed have product container or label at hand.

For advice, or if you feel unwell, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately.

IF SWALLOWED: Rinse mouth. Call a POISON CENTRE or doctor if you feel unwell.

CONDITIONS OF SALE

Adama New Zealand Limited will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply of these goods other than the responsibility for the merchantable quality of the goods and such responsibilities mandatorily imposed by the Statutes applicable to the sale and supply of these goods. To the extent allowed by such Statutes the liability of Adama New Zealand Limited is limited to the replacement of the goods or (at the option of Adama New Zealand Limited) the refund of the price paid and is conditional upon a claim being made in writing and where possible sufficient part of the goods to enable proper examination being returned to Adama New Zealand Limited within thirty days of delivery.



ADAMA

Registered to and distributed by:

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EMERGENCY RESPONSE
(All hours)
Ring from anywhere in New Zealand
0800 734 607

In a Transport
Emergency
Phone 111
Police or Fire



A handwritten signature in blue ink, appearing to be "John G. King".

PRODUCT INFORMATION

BALLISTIC INSECTICIDE is a synthetic pyrethroid for the control of caterpillars, beetles, thrips and aphids on a broad range of fruit and vegetable crops, trees and ornamentals.

BALLISTIC INSECTICIDE is a quick acting synthetic pyrethroid insecticide, which works through contact activity and ingestion. It is not systemic. Thorough plant coverage is essential.

DIRECTIONS FOR USE

TAKE ALL REASONABLE STEPS TO ENSURE THAT THE SUBSTANCE DOES NOT CAUSE ANY SIGNIFICANT ADVERSE EFFECTS TO THE ENVIRONMENT BEYOND THE APPLICATION AREA.

EPA Controls:

- Do not apply this substance into or onto water.

It is an offence to use this product on animals.

Unless otherwise specified, rates are suggested for high volume spraying to the point of run-off. For concentrate spraying, adjust dilution rate accordingly.

CROP	PEST	RATE	CRITICAL COMMENTS
Beans	Looper caterpillar White butterfly caterpillar	360 mL/ha in 500-600 L of water or 36 mL/100 L	Apply at first sign of damage and repeat as necessary
Brassicas	Diamondback moth White butterfly caterpillar	360 mL/ha in 700-1000 L of water or 36 mL/100 L	Apply at 10-14 day intervals from transplanting. The addition of a non-ionic spreader-sticker is recommended.
Eucalyptus spp.	Tortoise beetle	Use 450 mL/ha with a suitable adjuvant oil at recommended rates	Apply by aerial spraying using Micronair atomisers.
Pinus spp. Nursery seedling beds	Looper caterpillar Thrips Tomato fruitworm	36 mL/100 L	Apply every 2-3 weeks from seedling emergence. The addition of a suitable spraying oil at 1 L/100 L of spray mix is recommended.
Kiwifruit (pre-flowering only) tamarillos and grape vines, non-bearing pipfruit, stonefruit and avocados, newly planted shelter provided not in flower	Grass grub beetle	90 mL/100 L in moderately fine spray	Ensure complete foliage coverage. Apply at dusk commencing when beetles first appear and at 6-8 day intervals over the beetle feeding period.
Lucerne	Aphids Sitona weevil	225 mL/ha in a minimum of 250 L water	Application should be timed to control adult weevils from mid-May onwards following post-aestivatory flights, but prior to egg laying. Apply if aphids are present immediately after cutting. Repeat if necessary.



CROP	PEST	RATE	CRITICAL COMMENTS
Onions	Onion thrips	360 mL/ha in 500-600 L of water	Apply at the first sign of thrips damage and repeat as necessary after 2-3 weeks. The addition of a non-ionic wetter is recommended.
Ornamentals	Looper caterpillar Thrips Tomato fruitworm	36 mL/100 L	Apply at first appearance and repeat as necessary
Potatoes	Potato tuber moth	450 mL/ha in 500/600 L of water	To control foliage mining apply at 10-14 day intervals from the first appearance of mining activity. Maintain adequate soil moisture and soil cover over developing tubers to assist in the control of tuber mining.
Tamarillos	Whitefly	Pre-flowering: 72 mL/100 L Post-flowering: 45 mL/100 L or 22 mL plus 300 mL of a suitable oil/100 L	Apply immediately after pruning and repeat 7-10 days later. Apply at 10-14 day intervals or as required. Ensure complete coverage of plants, particularly the undersides of leaves where whitefly favour.
Tomatoes (outdoor)	Looper caterpillar Tomato fruitworm	27-36 mL/100 L of water. Apply 400-1000 L/ha depending on crop density.	Use the lower rate on a 14 day schedule or the high rate on a 21 day schedule. Begin treatment after emergence or transplanting.
Maize and sweetcorn	Corn earworm	360 mL/ha in a minimum of 100 L of water	Apply as an aerial application at the first sign of caterpillars in the cob tassels. Then repeat 14-21 days later if necessary.
	Greasy cutworm	450 mL/ha in 250 L of water	Apply in evening as a directed spray to thoroughly cover the base of the plants. Rain within a few days of treatment will improve control.
Winter squash	Aphids	360 mL/ha in 500-700 L of water	Make two applications 10-14 days apart over the pre-flower period. Use alternative insecticides if required for the rest of the season.

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.

WITHHOLDING PERIODS

- Beans, brassicas and tomatoes (outdoor):** Do not apply later than 3 days before harvest.
- Maize, sweetcorn and tamarillos:** Do not apply later than 7 days before harvest.
- Maize and sweetcorn stubble:** Do not graze or feed stubble to animals within 14 days of application.
- Onions, potatoes:** Do not apply later than 14 days before harvest.
- Lucerne:** Do not apply later than 21 days before harvest.
- Pipfruit, stonefruit and avocados:** Apply to non-bearing plants only.
- Grapes:** Use only before the start of flowering.
- Kiwifruit:** Do not apply to kiwifruit after bud cracking (first visible petals).
- Winter squash:** Do not use after the start of flowering.



MIXING

Add the required amount of BALLISTIC INSECTICIDE directly into a partly filled spray tank with the agitation system operating. Complete filling with water and maintain agitation during application.

APPLICATION

May be applied with ground and aerial spray equipment capable of achieving uniform and complete coverage.

For hydraulic knapsack application use 4 ml/10 L and for airblast knapsack sprayers use 12 ml/10 L of water.

COMPATIBILITY

BALLISTIC INSECTICIDE is compatible with most commonly used fungicides and insecticides. Flocculation may occur when mixed with some sulphur formulations.

RESISTANCE MANAGEMENT

BALLISTIC INSECTICIDE contains the GROUP 3 pyrethroid insecticide, deltamethrin. Use strictly in accordance with label directions. Pest population with resistance to pyrethroid insecticide are known to exist. To minimize the risk of resistance developing, do not use another product containing an insecticide in the same group in conjunction with BALLISTIC INSECTICIDE. Since the occurrence of resistant pests is difficult to detect prior to use Adama New Zealand Ltd accepts no liability for losses that may result from the failure of this product to control resistant pests. Refer to <https://resistance.nzpps.org> for current resistance management advice for listed pests, or contact your agronomist, Adama representative or specialist advisor.

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