

WARNING- ECOTOXIC

Keep out of reach of children

Chariot™

Insecticide

ACTIVE INGREDIENT: Contains 120 g/litre Spinosad in the form of a suspension concentrate

Group	5	Insecticide
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Controls pests in fruit, vines, vegetables and fodder brassicas

Distributed by:

AGPRO NZ Ltd

10 Polaris Place, East Tamaki, Auckland 2013

PO Box 58-963, Botany, Auckland 2163

Ph 09 273 3456 www.agpro.co.nz



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Read label completely before use. Do not handle until all safety precautions have been read and understood.

HAZARD CLASSIFICATIONS: STOT (repeated exposure) category 2, Aquatic toxicity (acute/chronic) category 1, Hazardous to terrestrial invertebrates

RECORD KEEPING

Where 3 kg 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 written record must be 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.

TOXICITY WARNING: MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE. Do not breathe mist or spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. When mixing, applying or conducting spill control wear eye protection, respiratory protection, chemical resistant gloves, boots and overalls. Remove protective clothing and wash hands and face thoroughly before meals and after work.

ECOTOXICITY: VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS. Avoid contamination of any water supply with product or empty container. For the protection of aquatic organisms, a buffer zone (in all directions) of greater than 4 meters must be observed from water bodies. This product must not be applied into or onto water.

HARMFUL TO TERRESTRIAL INVERTEBRATES SUCH AS BEES. Do not apply substance to plants if bees are foraging; or the plants are in flower or part flower, and are likely to be visited by non-target invertebrate pollinators (including bees). Avoid direct application or drift of the spray mix onto bees.

Avoid unintentional release to the environment. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

HANDLING PRECAUTIONS

PERSONAL PROTECTION: When mixing or applying wear eye protection, chemical resistant gloves and boots made of a material such as rubber, nitrile, polyethylene or polyvinyl chloride, and cotton overalls buttoned to the neck and wrist. An approved half/full face filter respirator for particulates and organic vapours should be worn when mixing and applying

PERSONNEL QUALIFICATION & EXPERIENCE: This product must be under the control of an appropriately trained and experienced applicator during use. Refer to Schedule 10 of the Hazardous Substances (Hazardous Property Controls) Notice 2017 for a list of suitable qualifications.

STORAGE: Store in original container tightly closed and in a locked, dry, cool area away from human and animal foodstuffs, seeds and fertilisers. Store in accordance with NZS 8409 Management of Agrichemicals.

EQUIPMENT: Apply with well-maintained and calibrated equipment. Flush spray equipment thoroughly with clean water after use

DISPOSAL: Triple rinse empty container and add rinsate to spray tank. Do not burn empty container that has not been rinsed. Recycle triple rinsed containers through an approved recovery scheme, eg Agrecovery. Otherwise, crush or puncture and bury in a suitably approved landfill.

Dispose of this product only by using according to the label, with an approved waste disposal company or treat so that it is no longer hazardous and then dispose of safely in a managed landfill. Do not burn the product. DO NOT reuse this container for any other purpose.

SPILLAGE: Wear appropriate protective clothing and prevent material from entering waterways. Contain liquid spills and absorb with inert material. Dispose of waste safely in an approved landfill.

FIRST AID

If swallowed: Rinse mouth. Do NOT induce vomiting. Call **0800 CHEMCALL (0800 243 622)** or doctor/physician if you feel unwell. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If splashed in eyes, wash out immediately with water. If medical advice is needed, have product container or label at hand.

NOTICE

Important : You **must** read the warning and conditions given on this label. If they are not acceptable, or if you are in doubt as to the proper handling of this product (including its transport, storage, use, disposal, and requirements for approved handlers) then return the unopened product to the supplier at once.

Warning : This product is subject to controls and could be hazardous if handled incorrectly. The **user is responsible** for ensuring that the handling of this product is in accordance with the law (including the **Hazardous Substances and New Organisms Act 1996**, the **Health and Safety at Work Act 2015** and their associated regulations) and with the directions provided. Renovo Technologies Ltd declines all liability, whether in contract, tort (including but not limited to negligence), (or otherwise), to the maximum extent permitted by law in relation to the handling of this product in a manner which is contrary to the directions given or to any applicable Acts, Regulations or Guidelines. **Further information** regarding the applicable Acts, Regulations and Guidelines for the proper handling of this product may be obtained by contacting EPA New Zealand (www.epa.govt.nz) or Worksafe New Zealand (<https://www.worksafe.govt.nz/>).

This product is warranted to contain the specified active ingredient within accepted analytical tolerance when packed.

Registered pursuant to ACVM Act 1997, No. P9937. See www.foodsafety.govt.nz for registration conditions

HSNO Approval Code: HSR000714. See www.epa.govt.nz for approval conditions

UN Number: UN3082, Environmentally Hazardous Substance, Liquid, NOS

Packing Group: III



Date of Manufacture:

Batch No.

Barcode



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APPLICATION METHODS

CHARIOT can be applied with conventional spraying equipment. Flush equipment thoroughly with clean water after use.

Boom spraying: Use a minimum 200 L/ha water applied as a medium quality spray as defined by the British Crop Protection Council (BCPC) system or the American Society of Agricultural Engineers (ASAE - S572).

IMPORTANT: In order to select the appropriate nozzles for the required spray quality and to operate the equipment to minimize spray drift, this product must be applied in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS 8409).

Cleaning spray equipment:

Rinsing

After using **CHARIOT**

- Empty the spray tank completely and drain the whole system. Thoroughly wash inside the unit using a pressure hose. Drain spray unit and clean any filters in the tank, pump, lines, hoses and nozzles.
- After cleaning the spray unit as above, quarter fill with clean water and circulate the water through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.
- Discard rinse water on land already sprayed or on wasteland away from desirable plants and water sources.

MIXING:

Pour the required quantity of **CHARIOT** into the partly filled spray tank and then add the remainder of the water, agitating thoroughly during filling. Agitate thoroughly during spraying and before spraying after a stoppage.

STORAGE OF DILUTED SPRAY MIX:

Whenever possible use spray mix immediately after it is prepared. However, when weather conditions prevent immediate use, the spray mix may be stored for up to 72 hours without loss of activity. The spray mix must be stored out of direct sunlight.

RAINFASTNESS:

Avoid applications when rain is expected within 6 hours of spraying.

IMPORTANT - RESISTANCE MANAGEMENT:

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CHARIOT is a spinosyn insecticide (Group 5). Some naturally occurring individual insects may become resistant when excessive use of the same insecticide occurs. To maximize the effectiveness of insecticides, products containing alternate modes of action should be used in the spray program. Read the label below and consult <http://resistance.nzpps.org/> for alternate modes of action and the details of resistance management strategies (if any) for the crops listed on the label.

Resistance to this product may develop from excessive use. To minimise this risk use strictly in accordance with label instructions.

CHARIOT has a unique mode of action and controls pest species that are resistant to conventional insecticides. To help prevent the development of resistance **DO NOT** apply more than 4 applications of **CHARIOT** to any crop in any one season. Use insecticides from a different chemical group if more than 4 applications are required.

Brassicas – to minimise the development of insect resistance, refer to the Diamondback Moth Resistance Management Strategy for the appropriate application timing window.

Potatoes - to minimise the development of resistance, **DO NOT** apply more than 4 applications in any one season. **DO NOT** use **CHARIOT** exclusively all season.



COMPATIBILITY

CHARIOT is compatible with most other commonly used pesticides including lime sulphur. Only use adjuvants that have a history of safe use on crops treated, eg Latron™ B-1956 on nectarines. **DO NOT** use other adjuvants with **CHARIOT** unless known to be safe.

POLLINATORS:

When applied during non-foraging periods **CHARIOT** will not interfere with the activity of honeybees once the spray has dried. At least 3 hours drying time should occur before bee foraging is expected. At times when bees aggregate in large numbers outside the hive, ensure they are not directly contacted by the spray.

WITHHOLDING PERIODS

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

Pipfruit, Avocados, Vegetable Brassicas and Tomatoes: 3 days.

Citrus, and Kiwifruit: 14 days

Grapes: 42 days

Potatoes: 7 days

Stonefruit: 1 day

Note: Refer to export industry withholding period charts for export produce.

GRAZING RESTRICTION:

FODDER BRASSICAS: DO NOT allow livestock to graze treated crop or foliage for 7 days after application.

ORCHARDS: DO NOT graze.

VINEYARDS: DO NOT graze stock other than sheep in vineyards which have been treated with **CHARIOT**. Sheep may be grazed in vineyards for the purpose of leaf plucking providing they are not slaughtered for 2 months after leaving the vineyard.

DIRECTIONS FOR USE:

It is an offence to use this product on animals.

CHARIOT controls certain pests in pipfruit, kiwifruit, avocados, citrus, grapes, stonefruit, potatoes, vegetable brassicas; fodder brassicas and field tomatoes. It works by both contact and ingestion activity. Exposed larvae stop feeding immediately but can take up to 3 days to die. **CHARIOT** belongs to the spinosyns group of insecticides.



CROP	PEST	RATE	CRITICAL COMMENTS
Avocados	Leafroller	40 mL/100 L as a dilute spray. DO NOT apply less than 800 mL/ha on mature trees.	Apply at 21day intervals as part of an IPM programme or when pest threshold is reached. Ensure thorough coverage.
Brassicas – Fodder	Diamondback moth, White butterfly, Brassica aphid		Ensure thorough coverage of the target foliage. Repeat application as required
		200 mL/ha ¹	Always apply in mixture with 100 mL/ha Uptake™ Spraying Oil or equivalent and 300 mL/ha Lorsban™ 50EC Insecticide or equivalent.
		400ml mL/ha	Always apply in mixture with 100 mL/ha Uptake™ Spraying Oil or equivalent
Brassicas - Vegetable	Diamondback moth White butterfly	400 mL/ha plus wetter ²	Closely monitor pest populations and time sprays to coincide with egg hatch. Repeat applications at 7-10 day intervals as new infestations occur. Use a minimum spray volume of 250 L/ha water. Ensure thorough coverage of the target area by increasing water volume with crop growth stage.
Citrus	Kelly's Citrus Thrips	40 mL/100 L as a dilute spray. DO NOT apply less than 800 mL/ha on mature trees.	Add wetting agent (eg Latron™ B-1956) at 40 mL/100 L of spraymix. Apply at 100% petal fall with up to three further sprays at two week intervals depending on larval appearance. Ensure thorough coverage.
Field Tomatoes	Tomato fruitworm	400 mL/ha plus wetter ²	Closely monitor pest populations and time sprays to coincide with egg hatch. Repeat applications at 7-10 day intervals as new infestations occur. Use a minimum spray volume of 250 L/ha water. Ensure thorough coverage of the target area by increasing water volume with crop growth stage.



Barbara

Grapes	Leafroller	40 mL/100 L plus a wetter ² as a dilute spray. DO NOT apply less than 400 mL/ha.	Apply at capfall and again at pre-bunch closure when pest thresholds are reached. Ensure thorough coverage.
Kiwifruit	Leafroller	20 – 40 mL/100 L as a dilute spray. DO NOT apply less than 400 mL/ha under moderate pest pressure and 800 mL/ha under severe pest pressure.	<p>Post-petal fall Apply up to 2 sprays within the first 3 weeks after fruit set. Use the higher rate when pest pressure is severe.</p> <p>Pre-harvest One further spray can be applied to the crop if needed and provided it is applied more than 14 days before harvest. Use the higher rate when pest pressure is severe. For export crops refer to the Zespri Crop Protection Programme or consult your exporter.</p> <p>Ensure thorough coverage.</p> <p>DO NOT apply in mixture with mineral oil.</p>
Pipfruit	Leafroller Pearslug	40 mL/100 L as a dilute spray. DO NOT apply less than 800 mL/ha on mature trees.	<p>Use as part of an Integrated Pest Management (IPM) programme. Apply every 14 days or when pest threshold is reached.</p> <p>Increase water rate as leaf canopy increases.</p> <p>Ensure thorough coverage.</p> <p>Note - to minimise adverse effects if the woolly apple aphid parasitoid <i>Aphelinus mali</i>, or predatory mite <i>T. pyri</i> are being used, apply late in the season or when activity is low.</p>



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Potatoes	Potato tuber moth	400 mL/ha plus wetter ²	<p>Only target foliar infestations of tuber moth. Potato tuber moth larvae in tubers or below the soil surface will not be controlled.</p> <p>Carefully monitor crops for eggs and larvae by regular field scouting. Target sprays at first sign of larvae in foliage. Repeat applications at 14-21 day intervals as new infestations occur. Use a minimum spray volume of 500 L/ha water.</p> <p>Adequate soil moisture as well as covering exposed tubers with soil will assist in reducing infestation of Potato tuber moth in tubers.</p>
Stonefruit	Leafroller (except Golden Queen peaches)	40 mL/100 L as a dilute spray. DO NOT apply less than 800 mL/ha on mature trees.	Apply every 14 days or when pest threshold is reached.
	Thrips		<p>Apply from flowering until shuckfall at 10 - 14 day intervals, or when pest threshold is reached.</p> <p>Pre-harvest: Apply twice at 7 day intervals with the last application 1-3 days before harvest.</p> <p>Both timings: Add wetting agent (eg. Latron B-1956) at 25 mL/100 L of spray mix. Ensure thorough coverage.</p>
	Cherryslug		Apply when larvae occur in large numbers.

1. For fodder brassicas only use the low rate of 200mL/ha if tank mixing with a Chlorpyrifos product.
2. For grapes, potatoes and all vegetable brassica crops, add a non-ionic wetting agent at the recommended rate.

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Registered to:
Renovo Technologies Ltd
4 Swans Road, Bell Block, New Plymouth 431
Tel: 06 907 3025

