

**WARNING**  
Keep out of reach of children



**Entrust™ SC**

**Naturalyte™**

**Qalcova™ active**

**INSECTICIDE**

**ACTIVE INGREDIENT:** Contains 240 g/litre spinosad in the form of a suspension concentrate.

**GROUP 5 INSECTICIDE**

Controls pests in fruit, vines, vegetables and fodder brassicas.

**READ THE LABEL COMPLETELY BEFORE USE**

**NET CONTENTS: 250 mL, 1 L, 4 L, 5 L, 10 L**

**Corteva Agriscience New Zealand Limited**

Private Bag 2017

New Plymouth 4342

[www.corteva.co.nz](http://www.corteva.co.nz)

Telephone: 0800 803 939



INFORMATION WITHIN THIS BOX IS NOT PART OF THE LABEL

Entrust™ SC Naturalyte™

2<sup>nd</sup> November 2021

## **WARNING**



May cause damage to organs through prolonged or repeated exposure.

Hazardous to terrestrial invertebrates.

Very toxic to aquatic life with long lasting effects.

## **QUALIFICATION REQUIREMENTS**

This product must be under the personal control of an approved handler when:

- a) applied in a wide dispersive manner; or
- b) used by a commercial contractor.

## **RECORD KEEPING**

Records of use, as described in the EPA Hazardous Substances (Hazardous Property Controls) Notice 2017 and the New Zealand Standard for the Management of Agrichemicals (NZS8409) must be kept if more than 3 L of Entrust™ SC Naturalyte™ is applied or discharged within 24 hours in a place where members of the public may be present or where the substance may enter air or water and leave the place.

## **HEALTH HAZARDS**

May cause damage to organs (vacuolization of cells in various tissues or central nervous system effects) through prolonged or repeated exposure. DO NOT breath fumes, mist, vapours or spray. DO NOT eat, drink or smoke while using this product. Remove protective clothing immediately after handling this product and thoroughly wash hands and face.

## **ENVIRONMENTAL HAZARDS**

Very toxic to aquatic life with long lasting effects. Avoid release to the environment. DO NOT apply directly into or onto water. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

Hazardous to terrestrial invertebrates. DO NOT apply substance to plants if bees are actively foraging. Once the spray deposit has dried, foraging bees will not be affected.

## **HANDLING PRECAUTIONS**

### **EQUIPMENT**

Apply using accurately calibrated and maintained equipment in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

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Flush equipment thoroughly with clean water after use according to Cleaning Spray Equipment instructions below. Dispose of cleaning water according to the disposal instructions below.

## STORAGE

Store in the original container tightly closed and in a locked, dry, cool, well-ventilated area, well away from ignition sources and foodstuffs. Storage must be generally in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

Stores containing 100 L or more of Entrust™ SC Naturalyte™ require bunding and are subject to signage. See the Hazardous Substances Emergency Management and Identification Regulations and the New Zealand Standard for the Management of Agrichemicals (NZS8409) for further information.

## PERSONAL PROTECTION

When opening the container, preparing the product for use and applying the product, wear eye protection, chemical resistant gloves and cotton overalls buttoned to the neck and wrist.

## SPILLAGE

DO NOT touch or walk through spilled material. Wear the protective equipment recommended above. Stop leak when safe to do so. Dam area and prevent entry into waterways, and drains. **Small spills/leaks:** Absorb with proprietary absorbent suitable for chemical spills or inert material such as sand, soil or sawdust. Collect spilled product and place in sealable container for disposal. Spill residues may be cleaned using water and detergent. Contain and absorb wash water for disposal. Absorb and collect washings and place in the same sealable container for disposal. Seek advice from the SDS, product label or Corteva Agriscience regarding disposal. **Large spills/leaks:** Dam the area off and report them to Corteva Agriscience Emergency Services at 0800 844 455.

## DISPOSAL

Triple rinse empty container and add rinsate to spray tank. Triple rinsed containers containing the Agrecovery logo on the label and that are free of all residues (liquid and dry) and have an intact legible label may be taken to an Agrecovery collection site. Otherwise crush or puncture and bury in a suitably approved landfill. DO NOT burn empty containers.

Dispose of the product only by using according to the label, via Agrecovery (visit [www.agrecovery.co.nz](http://www.agrecovery.co.nz) or call 0800 AGRECOVERY (247 326) for information about the type and quantity of chemical acceptable for disposal), or at an approved landfill. DO NOT burn.

Dispose of unused spray mix and equipment cleaning water onto non-grazed and non-cropped ground away from edible and flowering plants.

DO NOT dispose of this product, spray mix or equipment cleaning water down drains or sewers.

## FIRST AID

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Get medical advice if you feel unwell. For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. If medical advice is needed, have the product container or label at hand.

## TRANSPORT

This product may be carried on a passenger service vehicle providing the Dangerous Goods requirements are complied with.

## SAFETY DATA SHEET

A Safety Data Sheet for Entrust™ SC Naturalyte™ is available from Corteva Agriscience on request. Call Customer Service Toll Free on 0800 803 939 or visit [www.corteva.co.nz](http://www.corteva.co.nz).

## 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 [if applicable]) 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* and the *Agricultural Compounds and Veterinary Medicines Act 1997*) and with the directions provided. The Registrant 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](http://www.epa.govt.nz)) or the Ministry for Primary Industries (MPI) ([www.foodsafety.govt.nz](http://www.foodsafety.govt.nz)).

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

<p><b>Registered to:</b> Corteva Agriscience New Zealand Limited Private Bag 2017 New Plymouth 4342 Telephone 0800 803 939 <a href="http://www.corteva.co.nz">www.corteva.co.nz</a></p>	<p><b>EMERGENCY RESPONSE</b> (All hours) Ring from anywhere in New Zealand <b>0800 844 455</b> <b>Or Globally</b> <b>+64-6-751-2407</b></p>	<p><b>IN A TRANSPORT EMERGENCY</b> <b>DIAL 111</b> <b>FOR POLICE OR FIRE</b></p>
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Registered pursuant to the ACVM Act 1997, No P9135  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

Approved pursuant to HSNO Act 1996, EPA Approval Code HSR000714

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See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.



	Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPINOSAD) Marine Pollutant
	UN Number:	3082

Date of Manufacture:

Batch No.

Barcode

## APPLICATION METHODS

**Entrust™ SC Naturalyte™ is acceptable for use on conventionally grown crops as well as crops grown under organic systems as certified by BioGro New Zealand.**

Entrust™ SC Naturalyte™ 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 (NZS8409).

## CLEANING SPRAY EQUIPMENT

### Rinsing

After using Entrust™ SC Naturalyte™:

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

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Pour the required quantity of Entrust™ SC Naturalyte™ 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.

## RESISTANCE MANAGEMENT

GROUP	<b>5</b>	INSECTICIDE
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Entrust™ SC Naturalyte™ 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.

Entrust™ SC Naturalyte™ 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 Entrust™ SC Naturalyte™ 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 Entrust™ SC Naturalyte™ exclusively all season.

## COMPATIBILITY

**If using Entrust™ SC Naturalyte™ on crops grown under organic systems as certified by BioGro New Zealand, ensure that any tank mix partners, including adjuvants are also approved for use under certification.**

Entrust™ SC Naturalyte™ is compatible with most other commonly used pesticides including lime sulphur.

Latron™ B-1956 has a history of safe use on nectarines. DO NOT use other adjuvants with Entrust™ SC Naturalyte™ unless known to be safe. Latron B-1956 is not acceptable for use in organic systems as certified by BioGro New Zealand.

## POLLINATORS

When applied during non-foraging periods Entrust™ SC Naturalyte™ will not interfere with the activity of honey bees 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 Residue 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 Entrust™ SC Naturalyte™. 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.**

Entrust™ SC Naturalyte™ 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. Entrust™ SC Naturalyte™ belongs to the spinosyns group of insecticides.

CROP	PEST	RATE	CRITICAL COMMENTS
Avocados	Leafroller	20 mL/100 L as a dilute spray.  Do not apply less than 400 mL/ha on mature trees.	Apply at 21 day intervals as part of an IPM programme or when pest threshold is reached.  Ensure thorough coverage.

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<b>CROP</b>	<b>PEST</b>	<b>RATE</b>	<b>CRITICAL COMMENTS</b>
<b>Brassicas - Fodder</b>	Diamondback moth, White butterfly	200 mL/ha	Always apply in mixture with 100 mL/ha Uptake™ Spraying Oil.  Ensure thorough coverage of the target foliage.  Repeat application as required.
<b>Brassicas - Vegetable</b>	Diamondback moth White butterfly	200 mL/ha plus wetter <sup>1</sup>	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.
<b>Citrus</b>	Kelly's Citrus Thrips	20 mL/100 L as a dilute spray. Do not apply less than 400 mL/ha on mature trees.	Add Latron B-1956 at 40 mL/100 litres of spray mix. Apply at 100% petal fall with up to three further sprays at two week intervals depending on larval appearance. Ensure thorough coverage.
<b>Field Tomatoes</b>	Tomato fruitworm	200 mL/ha plus wetter <sup>1</sup>	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.
<b>Grapes</b>	Leafroller	20 mL/100 L plus a wetter <sup>1</sup> as a dilute spray. Do not apply less than 200 mL/ha.	Apply at capfall and again at pre-bunch closure when pest thresholds are reached. Ensure thorough coverage.

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CROP	PEST	RATE	CRITICAL COMMENTS
Kiwifruit	Leafroller	10 – 20 mL/100 L as a dilute spray. Do not apply less than 200 mL/ha under moderate pest pressure and 400 mL/ha under severe pest pressure.	<p><b>Post-petal fall</b></p> <p>Apply up to 2 sprays within the first 3 weeks after fruit set. Use the higher rate when pest pressure is severe.</p> <p><b>Pre-harvest</b></p> <p>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	20 mL/100 L as a dilute spray.  Do not apply less than 400 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><b>Note</b> - 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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CROP	PEST	RATE	CRITICAL COMMENTS
Potatoes	Potato tuber moth	200 mL/ha plus wetter <sup>1</sup>	<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)	20 mL/100 L as a dilute spray. Do not apply less than 400 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><b>Pre-harvest:</b> Apply twice at 7 day intervals with the last application 1-3 days before harvest.</p> <p><b>Both timings:</b> Add Latron B-1956 surfactant at 25 mL/100 L of spray mix. Ensure thorough coverage.</p>
	Cherryslug		Apply when larvae occur in large numbers.

<sup>1</sup> For grapes, potatoes and all vegetable brassica crops, add a non-ionic wetting agent at the recommended rate.

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