



**WARNING
ECOTOXIC**

Keep out of reach of children

HORTCARE®

SPINOSAD SC

INSECTICIDE



For the control of insect pests in fruit,
vines, vegetables and fodder brassicas.

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

GSSSC376/F03



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HORTCARE® SPINOSAD SC
NET CONTENTS: 5 Litres

Grosafe®

HORTCARE® SPINOSAD SC

PEEL HERE



HAZARD CLASSIFICATIONS:

Specific target organ toxicity (repeated exposure) Category 2; Hazardous to terrestrial vertebrates; Hazardous to the aquatic environment (acute and chronic) Category 1.

WARNING: May cause organ damage from repeated oral exposure at high doses.

PERSONAL PROTECTION: When mixing or loading wear overalls, impervious gloves and eye/face protection. Avoid inhalation of spray mist. Wash hands and exposed skin after work.

STORAGE: Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from foodstuffs. When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Contact the proprietor for further information about the use of this product if it is older than this.

SPILLS AND DISPOSAL: When dealing with spills wear personal protective clothing and equipment as described in the PERSONAL PROTECTION section. Contain and absorb with suitable inert absorbent material and store in properly labelled, sealed drums for safe disposal. If spray mixture is spilled absorb and collect in drums as above. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

PRODUCT DISPOSAL: If possible dispose of by using according to the label, otherwise dispose of in an approved landfill or bury below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots.

CONTAINER DISPOSAL: Triple rinse container and add residue to mixture. If circumstances, especially wind direction, permit the empty containers may be burned, otherwise bury in a suitable land fill.

ENVIRONMENT: Toxic to aquatic organisms with long lasting effects, **Do not apply directly onto or into water.** Avoid contamination of any water supply with product or empty container. Toxic to terrestrial invertebrates, avoid drift to non-target areas. Take all reasonable steps to ensure that the product does not cause any significant adverse effects to the environment beyond the application area. Do not apply to plants if – (a) bees are foraging, or (b) the plants are in flower or part flower, or are likely to be visited by non-target invertebrate (including bees).

QUALIFIED HANDLER: This product must be under the control of an qualified handler during use.

RECORD KEEPING: A record of use must be kept according to HSNO Regulations and N.Z. Standard for the Management of Agrichemicals (NZS 8409). If 3L or more is applied within 24 hours, in places where the product is likely to enter air or water and leave the application area, a written record is to be kept for each application.

SAFETY DATA SHEET: A safety data sheet is available from Grosafe Chemicals Ltd.

FIRST AID: If swallowed, give a glass or two of water but do NOT induce vomiting. If in eyes, immediately flush with plenty of water for at least 15 minutes. If irritation persists, get medical attention. If on skin, remove contaminated clothing immediately. Wash skin immediately with plenty of soap and water. In case of inhalation of spray remove to fresh air. Get medical attention if patient is in distress. For advice call a doctor or the National Poisons Centre (0800 764 766)

EMERGENCY RESPONSE 0800 CHEMCALL: (0800 243 622)

Registered pursuant to the ACVM Act 1997, No P8879. See www.foodsafety.govt.nz for registration conditions.
Approved pursuant to HSNO Act 1996, Approval Code: HSR000714 See www.epa.govt.nz for approval conditions.

WARRANTY This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance when packed. The user bears the risk for damage resulting from factors beyond the manufacturer's control. The manufacturer declines all liability for damage resulting from improper storage or use of the product.

REGISTERED PROPRIETOR:


Grosafe[®]
CHEMICALS LTD

20 JEAN BATTEN DRIVE
MT MAUNGANUI 3116
POBox 14-450 Tauranga 3143
FREE PHONE 0800 220 002
info@grosafe.co.nz
www.grosafe.co.nz

Batch No:

Date of Manufacture:



GENERAL INFORMATION

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

Resistance Management

Resistance to this product may develop from excessive use. To minimise this risk do not apply Hortcare® Spinosad SC more than four times to a single crop in one season. If further treatment is required, choose an insecticide from a different product group. Contact your GroSafe representative for advice and for resistance management strategies. Hortcare® Spinosad SC acts both by insect contact and ingestion. Treated larvae stop feeding immediately but can take up to three days to die.

Compatibility: Hortcare® Spinosad SC is compatible with most other commonly used pesticides, including lime sulphur. Latron™ B-1956 and EcoSpread® have a history of safe use on nectarines. Do not use other adjuvants with Hortcare® Spinosad SC unless known to be safe.

Pollinators: Hortcare® Spinosad SC will not interfere with honey bee activity once the spray has dried. Spray at least three hours before bee foraging is expected. Avoid spraying near hives.

Withholding periods

Pipfruit, Avocados, Vegetable Brassicas, Tomatoes:	3 days
Citrus, Kiwifruit:	14 days
Grapes:	42 days
Potatoes:	7 days
Stonefruit:	1 day

Refer to export industry withholding period charts for export produce.

Grazing Restriction: Fodder Brassicas: Do not allow livestock to graze treated crops within 7 days of application.

APPLICATION METHODS

Hortcare® Spinosad SC can be applied with conventional spraying equipment. Flush equipment thoroughly with clean water after use.

Boom spraying: Use a minimum of 200 litres water per hectare as a medium quality spray (as defined by the British Crop Protection Council [BCPC] system or the American Society of Engineers [ASAE-S572]). In order to select the appropriate nozzles and to minimise spray drift apply in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS 8409).

Cleaning spray equipment - After using Hortcare® Spinosad SC

- Empty the spray tank completely and drain the whole system. Wash inside the unit with a pressure hose. Drain, and clean filters, pump, lines, hoses and nozzles.
- Quarter fill the spray tank with clean water and circulate through the system. Drain and repeat.
- Discard rinse water on land already sprayed or on waste land, away from desirable plants and water courses.

MIXING

Before opening the container, shake the contents several times to ensure product is well mixed. Pour the measured quantity of Hortcare® Spinosad SC into the partly filled spray tank, commence agitation and continue filling. Agitate during spraying and before spraying after a stoppage. If possible use the spray mix immediately after preparation. If circumstances prevent use, the spray mix may be stored for up to 72 hours without loss of activity. Store out of direct sunlight and agitate before recommencing. Avoid applications if rain is expected within 6 hours of spraying.

The product must not be used on animals unless the use is approved as part of this registration.

DIRECTIONS FOR USE

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

CROP	PEST	RATE	COMMENT
Avocados	Leafroller	40ml / 100L as a dilute spray. Apply at least 800ml / ha on mature trees	Apply at 21 day intervals as part of an IPM programme or when pest threshold is reached. Ensure thorough coverage.
Brassicas - fodder	Diamondback moth, White butterfly, Brassica aphid	200ml / ha	Apply in mixture with 100 ml/ha spraying oil and 300 ml/ha Hortcare® Chlorpyrifos 50 EC. Ensure thorough coverage. Repeat as required.

CROP	PEST	RATE	COMMENT
Brassicas - vegetable	Diamondback moth, White butterfly,	400ml / ha plus wetter ¹ .	Monitor pest numbers and time sprays to coincide with egg hatch. Repeat at 7 - 10 day intervals as required. Apply at least 250 litres spraymix / ha. Ensure thorough coverage, increasing volume as crop grows.
Citrus	Kelly's Citrus thrips	40ml / 100L as a dilute spray. Apply at least 800ml / ha on mature trees	Add Latron B-1956 at 40ml/100L of spray mix. For ORGANIC PRODUCTION add EcoSpread® at label rates. EcoSpread® is BioGro certified biodegradable. Apply at 100% petal fall, with up to 3 further sprays at 2 week intervals depending in larval numbers. Ensure thorough coverage.
Field Tomatoes	Tomato fruitworm	400ml / ha plus wetter ¹ .	Monitor pest numbers and time sprays to coincide with egg hatch. Repeat at 7 - 10 day intervals as required. Apply at least 250 litres spraymix / ha. Ensure thorough coverage, increasing volume as crop grows.
Grapes	Leafroller	40ml / 100L plus wetter ¹ . as a dilute spray. Apply at least 400ml / ha	Apply at capfall and again at pre-bunch closure, when pest thresholds are reached. Ensure thorough coverage.
Kiwifruit	Leafroller	20ml - 40ml / 100L as a dilute spray. Apply at least 400ml / ha under moderate pest pressure and 800ml / ha under severe pest pressure	Post petal-fall - Apply up to 2 sprays within first 3 weeks after fruit set. Pre-harvest - If required apply a further spray (more than 14 days before harvest). For export crops refer to the Zespri Crop Protection Programme or consult your exporter. Ensure thorough coverage. Do not apply in mixture with mineral oil.
Pipfruit	Leafroller Pear slug	40ml / 100L as a dilute spray. Apply at least 800ml / ha on mature trees	Use as part of an Integrated Pest Management (IPM) Programme. Apply every 14 days or when pest threshold is reached. Increase water rate as leaf canopy increases. Ensure thorough coverage. Note: to minimise adverse effects on the woolly apple aphid parasitoid <i>Aphelinus mali</i> , or predatory mite <i>T.pyri</i> apply late in the season or when activity is low.
Potatoes	Potato tuber moth	400ml / ha plus wetter ¹ .	Active only against foliar infestations of tuber moth, larvae in tubers or underground will not be controlled. Spray when larvae are observed in the foliage: repeat at 14 – 21 day intervals if required. Use at least 500L spraymix / ha. Covering exposed tubers with soil will reduce tuber moth damage.
Stonefruit	Leafroller (except for Golden Queen peach)	40ml / 100L as a dilute spray. Apply at least 800ml / ha on mature trees	Apply every 14 days or when pest thresholds are reached.
	Thrips		Apply at 10 - 14 day intervals from flowering to shuck fall, or when pest thresholds are reached. Pre-harvest: apply twice at a 7 day interval, the last application 1- 3 days before harvest. Both timings: Add Latron B-1956 surfactant at 25ml/100L of spray mix. For ORGANIC PRODUCTION add EcoSpread® at label rates. EcoSpread® is BioGro certified biodegradable. Ensure thorough coverage.
	Cherry slug		Apply when larvae appear.

1. For grapes, potatoes and all vegetable brassica crops, add EcoSpread® at the recommended rates.