

POISON

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

OzCrop


Spirotetramat 240 SC

INSECTICIDE


ACTIVE CONSTITUENT: 240 G/L SPIROTETRAMAT

GROUP **23** INSECTICIDE

for the control of various pests in cotton and certain fruit and vegetable crops as specified in the directions for use table.


CONTENTS:
2.5L-20L

Formulation type
Suspension
Concentrate **SC**

BATCH NO.
DATE OF MANUFACTURE:

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DIRECTIONS FOR USE

BRASSICA VEGETABLE CROPS

Crop	Pest	Rate	WHP	Critical Comments
Brassica Vegetables (Broccoli, Broccolini, Brussels sprouts, Cabbage, Cauliflower, Kohlrabi)	Green peach aphid (Myzus persicae)	200 mL/ha + adjuvant OR DILUTE SPRAYING 20mL/100L + adjuvant*	H 3 Days G	Monitor crops and commence applications once local thresholds are reached. Where applicable, use the higher rate when periods of high pest pressure or rapid crop growth are evident or when longer residual control is desired or when crops are dense or large (eg from the commencement of head formation). Continue to monitor crops and make subsequent applications as necessary. DO NOT re-apply within 7 days of a previous OzCrop Spirotetramat 240 SC Insecticide spray.
	Grey cabbage aphid (Brevicoryne brassicae)	200 – 300 mL/ha + adjuvant OR DILUTE SPRAYING 20 – 30 mL/100L + adjuvant*	Refer to grazing WHP statement	DO NOT apply more than 3 applications per crop. Ensure thorough spray coverage of the target crop. For dilute spraying apply to the point of run-off, using application volumes of up to 1000L/ha – refer “Application” section in General Instructions.
	Silverleaf whitefly (Bemisia tabaci Biotype B)	300 – 400 mL/ha + adjuvant OR DILUTE SPRAYING 30 – 40 mL/100L + adjuvant*		*Always add a specified spray adjuvant – refer “Adjuvant” section in General Instructions. Note: The green peach aphid and silverleaf whitefly uses are subject to CropLife Resistant Management Strategies. Refer to www.croplife.org.au for more information.

MANGO

Crop	Pest	Rate	WHP	Critical Comments
Mangoes (Post flowering applications)	White mango scale, citrus mealybug (suppression only)	Fruit less than 50 mm diameter Dilute Spraying 30-40 mL/100 L water plus adjuvant* or 40 mL/100 L water <u>without</u> adjuvant** Fruit greater than 50 mm diameter Dilute Spraying 40 mL/100 L water <u>without</u> adjuvant**	H 14 days	Monitor crops and commence applications from immediately after flowering coinciding with crawler emergence. Continue to monitor crops and apply a second application 21-35 days after the first application if required. Use the higher rate under high pest pressure or to provide longer residual control. DO NOT apply more than two applications of OzCrop Spirotetramat 240 SC Insecticide post-flowering (ie between fruit set and harvest). *Where indicated add a specified spray adjuvant – refer "Adjuvant" section in General Instructions. Refer to Warning: Safety to Fruit, below, for advice on when adjuvant should NOT be used with OzCrop Spirotetramat 240 SC Insecticide. ** When OzCrop Spirotetramat 240 SC Insecticide is applied without an adjuvant for the control of white mango scale or suppression of citrus mealybug, lower levels of control may be evident. Apply thoroughly to ensure complete coverage using dilute spraying equipment (concentrate spraying is not appropriate for this use) – refer "Application" section in General Instructions. Warning – Safety to Fruit OzCrop Spirotetramat 240 SC Insecticide can cause damage (drip point injury) to mango fruit under some circumstances. To reduce the risk of such damage, when fruit is present on trees: <ul style="list-style-type: none"> Do not spray to excessive run-off Do not use wetting agent type adjuvants Do not mix OzCrop Spirotetramat 240 SC Insecticide with any other product, except the specified adjuvant when recommended Do not mix OzCrop Spirotetramat 240 SC Insecticide with any other product including any adjuvant, if any fruit exceeds 50mm diameter (width) Fruit of the variety Honey Gold has been found to be particularly sensitive to spirotetramat, and for some varieties fruit sensitivity may be unknown, hence the following additional precaution applies: <ul style="list-style-type: none"> Do not mix OzCrop Spirotetramat 240 SC Insecticide with any other product, including adjuvant, when applying to fruiting crops of Honey Gold variety or other varieties where fruit safety of OzCrop Spirotetramat 240 SC Insecticide plus adjuvant is unknown Even when these precautions are followed, some fruit damage has occasionally been noted in the Honey Gold variety.
	Pink wax scale	Fruit less than 50 mm diameter Dilute Spraying 30-40 mL/100 L water plus adjuvant* Fruit greater than 50 mm diameter Not recommended		
Mangoes (Post harvest applications – no fruit)	White mango scale, Pink wax scale	Dilute Spraying 30-40 mL/100 L water plus adjuvant* Concentrate Spraying Refer to the application section. Add adjuvant as recommended*		Apply after harvest and after tree pruning (if performed) to ensure good scale control on new growth. Use the higher rate under high pest pressure or to provide longer residual control. DO NOT apply within two weeks before the beginning of flowering. Apply thoroughly to ensure complete coverage. Apply by dilute or concentrate spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. For concentrate spraying, do not use at rates greater than two times the dilute spraying rate (ie at a concentration factor greater than 2X) – refer "Application" section in General Instructions. Where indicated add a specific spray adjuvant – refer "Adjuvant" Section in General Instructions.

COTTON

Crop	Pest	Rate	WHP	Critical Comments
Cotton	Silverleaf whitefly (<i>Bemisia tabaci</i>)	300-400 mL/ha plus adjuvant*	H 3 weeks G Refer to grazing WHP statement	Monitor crops and commence applications once local thresholds are reached. Use the higher rate when periods of high pest pressure or rapid crop growth are evident or when longer residual control is desired or when crops are well advanced. Continue to monitor crops and make subsequent applications as necessary. DO NOT re-apply within 14 days of a previous OzCrop Spirotetramat 240 SC Insecticide spray. DO NOT apply more than 2 applications per crop. OzCrop Spirotetramat 240 SC Insecticide may not control silverleaf whitefly adults and eggs, however a decline in the total silverleaf whitefly population will occur over time as the juvenile stages are controlled. Ensure thorough spray coverage of the target crop – refer “Application” section in General Instructions. Note: These uses are subject to CropLife Resistant Management Strategies. Refer to www.croplife.org.au for more information. *Always add a specified spray adjuvant – refer “Adjuvant” section in General Instructions.
	Cotton aphid (<i>Aphis gossypii</i>)			

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

WITHHOLDING PERIODS

HARVEST:

Brassica Vegetables: DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION

Cotton: DO NOT HARVEST FOR 3 WEEKS AFTER APPLICATION

Mangoes: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATIONS

GRAZING:

Brassica Vegetables: DO NOT GRAZE TREATED BRASSICA CROPS

Cotton: DO NOT FEED COTTON FODDER, STUBBLE OR TRASH TO LIVESTOCK

TRADE ADVICE

LIVESTOCK DESTINED FOR EXPORT MARKETS

The grazing withholding period only applies to stock slaughtered for the domestic market. Some export markets apply different standards. To meet these standards, ensure that in addition to complying with the grazing withholding period, the Export Slaughter Interval is observed before stock are sold or slaughtered.

EXPORT SLAUGHTER INTERVAL (ESI): 3 DAYS

LIVESTOCK THAT HAS BEEN GRAZED ON OR FED TREATED CROPS SHOULD BE PLACED ON CLEAN FEED FOR 3 DAYS PRIOR TO SLAUGHTER

EXPORT OF TREATED PRODUCE

Growers should note that suitable MRLs or import tolerances do not exist in all markets for produce treated with OzCrop Spirotetramat 240 SC Insecticide. In some situations, export requirements may be met by limiting application number and/or imposing a longer withholding period than specified above. If you are growing produce for export, please check with OzCrop Pty Ltd or your industry body for the latest information on any potential trade issues and their management before using OzCrop Spirotetramat 240 SC Insecticide.

GENERAL INSTRUCTIONS

ADJUVANT

BRASSICA CROPS

For both dilute and concentrate (where applicable) spraying methods, apply OzCrop Spirotetramat 240 SC Insecticide with Agridex* or Hasten*. Generally, apply Agridex or Hasten at 0.5 to 1.0L/ha. This can be achieved by adding Agridex or Hasten at 200mL/100L of spray mixture, up to a maximum of 1.0L/ha where application volumes exceed 500L/ha.

MANGOES

For both dilute and concentrate (where applicable) spraying methods, apply OzCrop Spirotetramat 240 SC Insecticide with Agridex* or Hasten* at 50mL/100L of spray mixture only when the addition of adjuvant is specified in the rate column of the Directions for Use table, and for application when fruit is present on trees, only after referring to Warning: Safety to Fruit, in the critical comments of the Directions for Use table, for advice on when adjuvant should NOT be used with OzCrop Spirotetramat 240 SC Insecticide.

COTTON

Apply OzCrop Spirotetramat 240 SC Insecticide with Agridex* or Hasten* at 1.0L/ha.

* or other specified adjuvant – refer to OzCrop Pty Ltd for further information.

MIXING

Shake the container well before using. Partially fill the spray tank with clean water and add the required volume of product to the water whilst agitating. Top up the tank with clean water to the required volume. Add the required amount of specified adjuvant. OzCrop Spirotetramat 240 SC Insecticide should be applied as soon as possible after mixing.

GROUND APPLICATION

BRASSICA CROPS

Thorough coverage of the target area is essential. Apply in sufficient water. Use suitable application parameters (nozzles, pressure, boom height, speed, etc.) to ensure thorough and even coverage.

Application using rate per hectare

Thorough coverage of the target area is essential. Adjust water volumes according to the crop growth stage.

Application using rate per 100 L (Dilute Spraying)

- Use a sprayer designed to apply high volumes of water up to the point of run-off and matched to the crop being sprayed.
- Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient water to cover the crop to the point of run-off. Avoid excessive run-off.
- The required water volume may be determined by applying different test volumes, using different settings on the sprayer, from industry guidelines or expert advice.
- Add the amount of product specified in the Directions for Use table for each 100 L of water. Spray to the point of run-off, to a maximum of 1000 L/ha for vegetable crops.
- The required dilute spray volume will change and the sprayer set up and operation may also need to be changed, as the crop grows.

MANGOES

Dilute Spraying

- Use a sprayer designed to apply high spray volumes, up to the point of run-off and matched to the crop being sprayed.
- Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient water to cover the crop to the point of run-off. Avoid excessive run-off.
- The required spray volume may be determined by applying different test volumes, using different settings on the sprayer, or from industry guidelines or expert advice.
- Add the amount of product specified in the Direction for Use table for each 100 L of water. Spray to the point of run-off, to a maximum of 1,000 L/ha for passionfruit and 10,000 L/ha for citrus crops.
- The required dilute spray volume will change and the sprayer set up and operation may also need to be changed, as the crop grows.

Concentrate Spraying

- Use a sprayer designed and set up for concentrate spraying (that is a sprayer which applies spray volumes less than those required to reach the point of run-off) and matched to the crop being sprayed.
- Set up and operate the sprayer to achieve even coverage throughout the crop canopy using your chosen spray volume.
- Determine an appropriate dilute spray volume (See Dilute Spraying above) for the crop canopy. This is needed to calculate the concentrate mixing rate.
- The mixing rate for concentrate spraying can then be calculated in the following way:
 1. Dilute spray volume as determined above: For example 1500 L/ha
 2. Your chosen concentrate spray volume: For example 750 L/ha
 3. The concentration factor in this example is 2X (i.e. $1500 \text{ L} \div 750 \text{ L} = 2$)
 4. If the dilute label rate is 30 mL/100 L, then the concentrate rate becomes 2×30 , that is, 60 mL/100 L
- The chosen spray volume, amount of product per 100 L of water, and the sprayer set up and operation may need to be changed as the crop grows.
- Do not use at a concentration factor greater than 2X (e.g. at a rate higher than 80 mL/100 L where a dilute spraying rate of 40 mL/100 L is specified).
- Note that the concentrate mixing rate is applicable only to OzCrop Spirotetramat 240 SC Insecticide. The adjuvant rate remains unchanged (i.e. no concentrate factor applies). Refer to the Adjuvant section.

For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry best practice.

COTTON

Apply as a blanket spray or banded spray ensuring thorough coverage of the foliage. Apply in a minimum of 80 L/ha.

Aerial application (cotton only)

OzCrop Spirotetramat 240 SC Insecticide must only be applied by aircraft (fixed-wing or helicopter) fitted with accurately calibrated equipment. Apply a minimum total spray volume of 30 L/ha. Do not apply OzCrop Spirotetramat 240 SC Insecticide using Ultra Low Volume (ULV) methods. Further enhancement of aircraft application can be achieved through modification of spray patterns (e.g. reduced swath width), increased water volume (e.g. from 30 L/ha to 50 L/ha), and the use of Global Positioning Systems (GPS) as an aid during spray applications.

COMPATIBILITY

Do not mix OzCrop Spirotetramat 240 SC Insecticide with Amistar or Du-Wett.

Do not mix OzCrop Spirotetramat 240 SC Insecticide with any other product, except the specified adjuvant when recommended, when applying to fruiting mango crops.

For further information on the compatibility of OzCrop Spirotetramat 240 SC Insecticide with other products, contact your local OzCrop Pty Ltd representative.

IPM compatibility

OzCrop Spirotetramat 240 SC Insecticide may have an adverse effect on predatory mites where IPM is practiced.

RESISTANCE WARNING

GROUP 23 INSECTICIDE

For insecticide resistance management OzCrop Spirotetramat 240 SC Insecticide is a Group 23 Insecticide. Some naturally occurring insect biotypes resistant to OzCrop Spirotetramat 240 SC Insecticide and other Group 23 insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if OzCrop Spirotetramat 240 SC Insecticide or other Group 23 insecticides are used repeatedly. The effectiveness of OzCrop Spirotetramat 240 SC Insecticide on resistant individuals could be significantly reduced. Since the occurrence of resistant individuals is difficult to detect prior to use, OzCrop Pty Ltd accepts no liability for any losses that may result from the failure of OzCrop Spirotetramat 240 SC Insecticide to control resistant insects.

OzCrop Spirotetramat 240 SC Insecticide may be subject to specific resistance management strategies. For further information contact your local supplier, OzCrop Pty Ltd representative or local agricultural department agronomist.

Precautions:

Do not allow re-entry into treated areas until the spray has dried, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.



PROTECTION

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

Application of OzCrop Spirotetramat 240 SC Insecticide to crops/plants other than those specified on this label may cause symptoms of phytotoxicity.

Caution: Phytotoxic symptoms have occasionally been observed when OzCrop Spirotetramat 240 SC Insecticide is applied to crops in protected cropping environments. This may be exacerbated when applied in tank mixtures.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Toxic to aquatic organisms. DO NOT contaminate streams, rivers or watercourses with the chemical or used containers.

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 rinse containers 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 deliver empty packaging for appropriate disposal at an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

Disposal - 100L, 110L, 200L and 1000L Container

110L Containers:

If tamper evident seals are broken prior to initial use, then the integrity of the contents cannot be assured. Empty container by pumping through dry-break connection system. DO NOT attempt to breach the valve system of the filling point or contaminate the container with water or other products. Ensure that the couple, pump, meter and hoses are disconnected, triple rinsed with clean water and drained after each use. When empty, or contents no longer required, return the container to the point of purchase. This container remains the property of OzCrop Pty Ltd.

100L, 200L and 1000L Containers:

If tamper evident seals are broken prior to initial use, then the integrity of the contents cannot be assured. The container must be vented before discharging contents. To empty, connect a camlock fitted hose to the bottom valve. Remove top cap when discharging for venting purposes. When the container is empty, close all caps and valves and return the container to the point of purchase.

SAFETY DIRECTIONS

May irritate the eyes. Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin.

When opening the container preparing spray and using prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length chemical resistant gloves. If product on skin, immediately wash areas with soap and water. If product in eyes wash it out immediately with water. Wash hands after use. After each day's use, wash gloves and contaminated clothing.

FIRST AID:

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26, New Zealand 0800 764 766

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet (SDS), which can be obtained from the supplier.

CONDITIONS OF SALE

To the extent permitted by law, all conditions and warranties and statutory or other rights or action which buyer or any other user may have against OzCrop Pty Ltd or Seller are hereby excluded. OzCrop Pty Ltd hereby gives Notice to Buyer and other users that it will not accept responsibility for any indirect or consequential loss arising from reliance on product information or advice provided by OzCrop Pty Ltd or on its behalf unless it is established that such information or advice was provided negligently and that the product has been used strictly as directed. OzCrop Pty Ltd liability shall, in all circumstances, be limited to replacement of the product or a refund of the purchase price paid therefor.

Safe Work Australia

May cause an allergic skin reaction. May cause respiratory irritation. Suspected of damaging fertility. Suspected of damaging the unborn child. Toxic to aquatic life with long lasting effects. Obtain special instructions before use. Use only outdoors or in a well-ventilated area. Avoid breathing mist/vapours/spray. Avoid release to the environment. Wash all exposed external body areas thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. IF exposed or concerned: Get medical advice/ attention. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor/physician/first aider/if you feel unwell. If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Collect spillage. IF INHALED: Remove person to fresh air and keep comfortable for breathing.



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