

# POISON

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

# TEPPAN<sup>®</sup> 50SL

ACTIVE CONSTITUENT: 50 g/L CYCLANILIPROLE  
SOLVENT: 659 g/L DIMETHYLSULFOXIDE

## INSECTICIDE

GROUP **28** INSECTICIDE

For the control of insect pests in various tree crops and vegetables  
as per the DIRECTIONS FOR USE table.

SL

SOLUBLE CONCENTRATE



 Nufarm

AUSTRALIAN  
THROUGH  
& THROUGH

## DIRECTIONS FOR USE

### RESTRAINTS

DO NOT apply by aircraft.

DO NOT apply if heavy rains or storms are forecast within 3 days.

DO NOT irrigate to the point of runoff for at least 3 days after application.

DO NOT use on leafy vegetables in protected cropping situations.

### Spray drift restraints

Specific definitions for terms used in this section of the label can be found at [www.apvma.gov.au/spraydrift](http://www.apvma.gov.au/spraydrift)

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

DO NOT apply to pome and nut trees by a boom sprayer.

DO NOT apply by a boom sprayer unless the following requirements are met:

- Spray droplets not smaller than a MEDIUM spray droplet size category
- Minimum distances between the application site and downwind sensitive areas are observed (see the following table titled 'Buffer Zones for Boom Sprayers').

### Buffer zones for boom sprayers

Application Rate	Boom Height Above the Target Canopy	Mandatory Downwind Buffer Zones				
		Bystander Areas	Natural Aquatic Areas	Pollinator Areas	Vegetation Areas	Livestock Areas
Up to 800 mL/ha	0.5 m or lower	Not required	Not required	Not required	Not required	Not required
	1.0 m or lower	Not required	20 metres	Not required	Not required	Not required
Up to 400 mL/ha	0.5 m or lower	Not required	Not required	Not required	Not required	Not required
	1.0 m or lower	Not required	10 metres	Not required	Not required	Not required

DO NOT apply by a vertical sprayer unless the following requirements are met.

- Spray is not directed above the target canopy.
- The outside of the sprayer is turned off when turning at the end of rows and when spraying the outer row on each side of the application site.
- For dilute water rates up to the maximum listed for each type of canopy specified, minimum distances between the application site and downwind sensitive areas are observed (see the following table titled 'Buffer Zones for Vertical Sprayers').

### Buffer zones for vertical sprayers

Application Rate	Maximum Dilute Water Rate	Type of Target Canopy	Mandatory Downwind Buffer Zones				
			Bystander Areas	Natural Aquatic Areas	Pollinator Areas	Vegetation Areas	Livestock Areas
100 mL/100 L	1000 L/ha	2 metres tall and shorter	Not required	Not required	Not required	Not required	Not required
	1600 L/ha	Taller than 2 metres (not fully-foliated)	Not required	20 metres	Not required	Not required	Not required
		Taller than 2 metres (fully-foliated)	Not required	10 metres	Not required	Not required	Not required
	4000 L/ha	Taller than 2 metres (not fully-foliated)	Not required	25 metres	Not required	Not required	25 metres
Taller than 2 metres (fully-foliated)		Not required	20 metres	Not required	Not required	20 metres	
80 mL/100 L	1000 L/ha	2 metres tall and shorter	Not required	Not required	Not required	Not required	Not required
	2000 L/ha	Taller than 2 metres (not fully foliated)	Not required	20 metres	Not required	Not required	Not required
		Taller than 2 metres (fully foliated)	Not required	10 metres	Not required	Not required	Not required

CROP	PEST	RATE	WHP	CRITICAL COMMENTS
<b>TREE CROPS</b>				
Apply by dilute or concentrate spraying equipment. Rates listed are for dilute spraying. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. Refer to the Application section of the label.				
Pome Fruit	Codling moth ( <i>Cydia pomonella</i> )	60-80 mL/100L water	7 days	Thorough coverage is essential to achieve best results. Select a spray volume appropriate for the size of trees and density of foliage. For best results apply 1500-2000 litres of water per hectare. Make no more than 3 applications/crop with a 14 day minimum interval between treatments. Use the high rate for heavy infestations and the low rate for mild infestations. Make first application just prior to or at the beginning of egg hatch. Use trap catches and local degree day-based spray timing advisories to determine the development of each codling moth generation. For effective resistance management make applications of Teppan® 50SL Insecticide in one codling moth generation before rotating to an insecticide with a different mode of action (Non-Group 28) in the next generation.
	Apple looper ( <i>Phrissogonus laticostata</i> ) Light brown apple moth ( <i>Epiphyas postvittana</i> )	60 mL/100L water		Thorough coverage is essential to achieve best results. Select a spray volume appropriate for the size of trees and density of foliage. For best results apply 1500-2000 litres of water per hectare. Make no more than 3 applications/crop with a 14 day minimum interval between treatments.
Macadamias	Macadamia seed weevil ( <i>Kuschelorrhynchus macadamiae</i> ) Fruit spotting bug ( <i>Amblypelta nitida</i> ) Banana spotting bug ( <i>A. lutescens lutescens</i> )	100 mL/100L water	14 days	For best results, apply with a non-ionic adjuvant, such as Activator at 50 mL/100L. Make no more than 3 applications/crop with a 14 day minimum interval between treatments. Alternate to a different mode of action (Non-Group 28) between each Teppan® 50SL Insecticide application.  <i>Macadamia seed weevil:</i> Monitor macadamia seed weevil populations and once petal fall has finished, commence applications as part of a program until shell hardening.
	Macadamia nut borer ( <i>Cryptophlebia omdelata</i> )	80 mL/100L water		<i>Fruit &amp; banana spotting bugs:</i> Monitor orchards and apply once economic thresholds are reached, beginning from early nut set. Apply to the point of runoff and ensure thorough coverage as this is critical for control.  <i>Macadamia nut borer:</i> Clean up fallen nuts to reduce carry over populations to the next season. Monitor macadamia nut borer populations until they reach economic thresholds, then target eggs and newly hatched larvae. Apply to the point of runoff and ensure thorough coverage as this is critical for control.
Avocado	Fruit spotting bug ( <i>Amblypelta nitida</i> ) Banana spotting bug ( <i>A. lutescens lutescens</i> )	100 mL/100L water	14 days	For best results, apply with a non-ionic adjuvant, such as Activator at 50 mL/100L. Make no more than 3 applications/crop with a 14 day minimum interval between treatments. Alternate to a different mode of action (Non-Group 28) between each Teppan® 50SL Insecticide application.  <i>Fruit &amp; banana spotting bugs:</i> Monitor orchards and apply once economic thresholds are reached, beginning from after flowering. Apply to the point of runoff and ensure thorough coverage as this is critical for control.

Almonds	Carob moth ( <i>Ectomyelois ceratoniae</i> ) Carpophilus beetle ( <i>Carpophilus</i> spp)	80 mL/100L water	7 days	For best results, apply with a non-ionic adjuvant, such as Activator at 50 mL/100 L. Make no more than 3 applications/crop with a 14 day minimum interval between treatments.  <i>IPM statement:</i> Practice good IPM by shaking mummy nuts off the tree during winter to reduce carob moth infestation.  <i>Carob moth:</i> 1 <sup>st</sup> generation Monitor traps for adult carob moth and eggs and larvae in mummy nuts on the tree after flowering in spring. Apply from September to the end of November. 2 <sup>nd</sup> generation Target early hull split (1 – 5%) ensuring thorough coverage of the hull.  <i>Carpophilus beetle:</i> Before and during hull split, monitor for carpophilus beetle in the orchard. Apply once economic thresholds are reached. Apply at 10 - 50 % hull split, prior to shell split. Ensure thorough coverage of the hulls is critical for control.  <i>Codling moth (walnuts only):</i> Make first application just prior to or at the beginning of egg hatch. Use trap catches and local degree day-based spray timing advisories to determine the development of each codling moth generation. For effective resistance management make applications of Teppan® 50SL Insecticide in one codling moth generation before rotating to an insecticide with a different mode of action (Non-Group 28) in the next generation.
Walnuts	Codling moth ( <i>Cydia pomonella</i> ), Carob moth ( <i>Ectomyelois ceratoniae</i> ) Carpophilus beetle ( <i>Carpophilus</i> spp)			

<b>VEGETABLE CROPS</b>				
Fruiting Vegetables other than Cucurbits (protected cropping)	Heliothis ( <i>Helicoverpa armigera</i> ) Armyworms ( <i>Spodoptera</i> sp.)	80 mL/100L water or 800 mL/ha	1 day	Make no more than 3 applications/crop with a 14 day minimum interval between treatments.
Brassica vegetables (including Broccoli, Brussel sprouts, Cabbage and Cauliflower)	Diamondback moth ( <i>Plutella xylostella</i> ) Cluster caterpillar ( <i>Spodoptera litura</i> )	40 mL/100L water or 400 mL/ha	1 day	For best results, apply with a non-ionic adjuvant at label rate, such as Activator at 50 mL/100L.  Time sprays to target newly hatched eggs and early larval stages once they reach threshold numbers and before they become entrenched in the plant.
Brassica Leafy Vegetables (including Chinese cabbage, Kale, Bok choy, Pak-choi, Pak-tsoi, Tat soy, Celery mustard, Mibuna)	Cabbage Cluster Caterpillar ( <i>Crocidolomia pavonana</i> ) Cabbage white ( <i>Pieris rapae</i> ) Cabbage Centre Grub ( <i>Hellula hydrates</i> )			Make no more than 3 applications/season with a 7 day minimum interval, only using successive applications within a single pest generation (please refer to INSECTICIDE RESISTANCE MANAGEMENT section for guidance)

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

#### WITHHOLDING PERIODS

##### HARVEST:

Avocados, macadamias: **DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION**

Pome fruit, almonds, walnuts: **DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION**

Brassica vegetables (including broccoli, brussels sprouts, cabbage, and cauliflower), brassica leafy vegetables (including Chinese cabbage, kale, bok choy, pak-choi, pak-tsoi, tat soy, celery mustard, mibuna), fruiting vegetables, other than cucurbits (protected cropping): **DO NOT HARVEST FOR 1 DAY AFTER APPLICATION**

##### GRAZING:

Avocados, almonds, macadamias, pome fruit, walnuts: **DO NOT ALLOW LIVESTOCK TO GRAZE TREATED ORCHARDS**

Brassica vegetables (including broccoli, brussels sprouts, cabbage, and cauliflower), brassica leafy vegetables (including Chinese cabbage, kale, bok choy, pak-choi, pak-tsoi, tat soy, celery mustard, mibuna), fruiting vegetables, other than cucurbits (protected cropping): **DO NOT ALLOW LIVESTOCK TO GRAZE TREATED CROPS OR CUT FOR STOCKFOOD**

##### EXPORT OF TREATED PRODUCE

Growers should note that suitable MRLs or import tolerances **DO NOT** exist in all markets for produce treated with TEPPAN® 50SL 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 Nufarm Australia Limited or your industry body for the latest information on any potential trade issues and their management before using TEPPAN® 50SL Insecticide.

## GENERAL INSTRUCTIONS

### Mixing

Add the required amount of Teppan® 50SL Insecticide to clean water in half filled spray tank with the agitator or by-pass in operation. Maintain agitation while filling tank with remainder of water. Agitation must also be maintained throughout the spray operation.

### Application

To be effective Teppan® 50SL Insecticide requires thorough spray coverage. Ensure that equipment is properly calibrated to give an even distribution at the correct volume. Thorough coverage of the target area is essential. Apply in sufficient water, and using suitable application parameters (nozzles, pressure, boom height, speed, etc) to ensure thorough and even coverage. Use only MEDIUM spray droplets. Adjust water volumes according to the crop growth stage.

**Pome Fruit & Tree Nuts:** The same quantity of Teppan® 50SL Insecticide per hectare should be used when spraying by either the dilute or concentrate method.

**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 Teppan® 50SL Insecticide specified in the Directions for Use table for each 100 L of water. Spray to the point of run-off. 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 water volumes less than those required to reach the point of runoff) and matched to the crop being sprayed. Apply a minimum of 500 L water/ha. Set up and operate the sprayer to achieve even coverage throughout the crop canopy using your chosen water 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:

### EXAMPLE ONLY

1. Dilute spray volume as determined above: for example, 1000 L/ha
2. Your chosen concentrate spray volume: for example, 500 L/ha
3. The concentrate factor in this example is 2X (i.e.  $1000\text{ L} \div 500\text{ L} = 2$ )
4. If the dilute label rate is 14 g/100 L, then the concentrate rate becomes  $2 \times 14$ , which is 28 g/100 L of concentrate spray.

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

### INSECTICIDE RESISTANCE WARNING

**GROUP****28****INSECTICIDE**

For insecticide resistance management, Teppan® 50SL Insecticide is a Group 28 insecticide. Some naturally occurring insect biotypes resistant to Teppan® 50SL Insecticide and other Group 28 insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Teppan® 50SL Insecticide and other Group 28 insecticides are used repeatedly. The effectiveness of Teppan® 50SL Insecticide on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Nufarm Australia Limited accepts no liability for any losses that may result from the failure of Teppan® 50SL Insecticide to control resistant insects. Teppan® 50SL Insecticide may be subject to specific resistance management strategies. For further information contact your local supplier, Nufarm Australia Limited representative or local agricultural department agronomist.

### COMPATIBILITY

For information on the compatibility of Teppan® 50SL Insecticide with other products, contact your local Nufarm Australia Limited representative.

### PRECAUTIONS

#### Re-entry period

#### Field Crops:

Not required.

#### For Protected Cropping:

**DO NOT** enter protected cropping for 4 hours after product application. If prior entry is necessary, wear 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 OF LIVESTOCK

**DO NOT** graze or feed treated crops to animals.

### PROTECTION OF HONEY BEES AND OTHER INSECT POLLINATORS

Toxic to bees. Harmful to bee brood. **DO NOT** apply to orchard crops from the onset of flowering until flowering is complete. **DO NOT** allow spray drift to flowering weeds or flowering crops in the vicinity of the treatment area. Before spraying, notify beekeepers to move hives to a safe location with an untreated source of nectar and pollen, if there is a potential for managed hives to be affected by the spray or spray drift.

### PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic life. **DO NOT** contaminate wetlands or watercourses with this product or used containers.

#### INTEGRATED PEST MANAGEMENT

Application of Teppan® 50SL Insecticide according to this label is expected to be safe to predatory mites, spiders and lacewings, but may have adverse effects on some parasitoid wasps in the treated field and in downwind areas reached by spray drift. In-crop residues are expected to be safe for *Aphelinus mali*. Minimise spray drift to reduce harmful effects on beneficial arthropods in non-crop areas.

Toxic to beneficial arthropods. In-crop residues, after the third application, are expected to be compatible with integrated pest management (IPM) programs after the periods shown in the tables below. Minimise spray drift to reduce harmful effects on beneficial arthropods in non-crop areas.

#### Integrated Pest Management (IPM) – Orchards

Application Rate	IPM Compatible
100 mL / 100 L with water rate of 4000 L/ha	63 days
100 mL / 100 L with water rate of 2000 L/ha	56 days
80 mL / 100 L with water rate of 4000 L/ha	63 days
80 mL / 100 L with water rate of 2000 L/ha	49 days
80 mL / 100 L with water rate of 1500 L/ha	49 days
60 mL / 100 L with water rate of 2000 L/ha	49 days
60 mL / 100 L with water rate of 1500 L/ha	42 days
40 mL / 100 L with water rate of 2000 L/ha	42 days
40 mL / 100 L with water rate of 1500 L/ha	35 days

#### Integrated Pest Management (IPM) – Vegetables

Application Rate	IPM Compatible
Up to 800 mL/ha	42 days
Up to 400 mL/ha	28 days

#### STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. **DO NOT** store for prolonged periods in direct sunlight.

#### Non-refillable containers

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 to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm 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.

#### Returnable containers

Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

#### SAFETY DIRECTIONS

May irritate the eyes. Avoid contact with eyes. Wash hands after use.

#### FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131 126; New Zealand 0800 764 766. If swallowed, **DO NOT** induce vomiting. If in eyes wash out immediately with water. If in eyes, hold open, flood with water for at least 15 minutes and see a doctor.

**ADDITIONAL STATEMENTS (WHS REGULATIONS 2011)**

Not required - product not classified as hazardous under GHS criteria.

**SAFETY DATA SHEET**

For further information refer to the Safety Data Sheet (SDS), which can be obtained by scanning the QR code, from your supplier or the Nufarm website.

In case of emergency: Phone 1800 033 498 (24 hrs) and ask for shift supervisor.

**PRODUCT STEWARDSHIP INFORMATION AND TOOLS**

[stewardshipfirst.com.au](http://stewardshipfirst.com.au) is a website with CropLife Australia's suite of world-leading product stewardship initiatives, programs and best-practice guides.

**CONDITIONS OF SALE**

Any provisions or rights under the Competition and Consumer Act 2010 or relevant state legislation which cannot be excluded by those statutes or by law are not intended to be excluded by these conditions of sale. Subject to the foregoing, all warranties, conditions, rights and remedies, expressed or implied under common law, statute or otherwise, in relation to the sale, supply, use or application of this product, are excluded. Nufarm Australia Limited and/or its affiliates ("Nufarm") shall not accept any liability whatsoever (including consequential loss), or howsoever arising (including negligence) for any damage, injury or death connected with the sale, supply, use or application of this product except for liability which cannot be excluded by statute.

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Registered to and manufactured by:



Ishihara Sangyo Kaisha, Ltd.  
3-15, Edobori 1-chome, Nishiku,  
Osaka 550-0002, Japan  
Tel: +81-6-6444-7154  
[iskweb.co.jp](http://iskweb.co.jp)

Distributed by:



Nufarm Australia Limited  
103-105 Pipe Road  
Laverton North Victoria 3026  
Tel: (03) 9282 1000  
[nufarm.com.au](http://nufarm.com.au)



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**NUFARM AUSTRALIA LIMITED**

103-105 Pipe Rd, Laverton North VIC 3026

For product advice, or to learn more about complementary Nufarm solutions,  
reach out to your local Nufarm specialist or call **1800 NUFARM (1800 683 276)**.

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