

#### STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, secure, well-ventilated area. **DO NOT** store for prolonged periods in direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilizers.

#### All other 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 for appropriate disposal to 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 and product.

#### Envirodrum - Micro Matic Valve (110L)

Store the original sealed Envirodrum in a cool, well ventilated area. **DO NOT** store for prolonged periods in direct sunlight. **DO NOT** tamper with the Micro Matic valve or the security seal. **DO NOT** contaminate the Envirodrum with water or any other foreign matter. After each use of the product please ensure that the Micro Matic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the Envirodrum have been used, please return the empty Envirodrum to the point of purchase.

#### Refillable containers (1000L only)

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

#### SAFETY DIRECTIONS

**Very dangerous, particularly the concentrate.** Product and spray are poisonous if absorbed by skin contact, inhaled or swallowed. Attacks the eyes. Will irritate the nose, throat and skin. Repeated minor exposure may have a cumulative poisoning effect. Avoid contact with eyes, skin and clothing. **DO NOT** inhale vapour or spray mist. Protect eyes while using. Obtain an emergency supply of atropine tablets 0.6 mg. When opening the container and preparing spray, wear elbow-length PVC gloves and a face shield. When using the prepared spray, wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length chemical resistant gloves, impervious footwear and half-face piece respirator with combined dust and gas cartridge/canister. If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product or spray on skin, immediately wash area with soap and water. After each day's use, wash gloves, face shield, respirator or face piece and contaminated clothing. Wash rubber respirator with detergent and warm water.

#### FIRST AID

If swallowed, splashed on skin or in eyes, or inhaled, contact Poisons Information Centre (*Phone Australia 13 11 26; New Zealand 0800 764 766*) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. If swallowed, activated charcoal may be advised. Give atropine if instructed.

#### Advice to Doctor

Methomyl is a reversible cholinesterase inhibitor. Atropine sulphate should be used for treatment, 1.2 to 2.0 mg i.v. every 10 to 30 minutes until full atropinisation is achieved. Maintain full atropinisation until patient recovers. **DO NOT** use morphine or 2-PAM. Artificial respiration or oxygen may be necessary. Allow no further exposure to cholinesterase inhibitors until recovery is assured.

Refer to attached Leaflet for additional GHS Hazard & Precautionary Statements

#### SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet, which can be obtained from your supplier or Imtrade CropScience website at [www.imtrade.com.au](http://www.imtrade.com.au)

#### CONDITIONS OF SALE

Imtrade CropScience shall not be liable for any loss, injury, damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on Imtrade's skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of Imtrade CropScience has any authority to add to or alter these conditions.

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# VeripHy®

# DANGEROUS POISON

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

IMTRADE  
**ACTIVIST®**  
225 VERIPHY® SL INSECTICIDE

ACTIVE CONSTITUENT: 225g/L METHOMYL (an anti-cholinesterase compound)  
SOLVENT: 598g/L METHANOL

**GROUP 1A INSECTICIDE**

For the control of insect pests in various crops as specified in the Directions for Use table.

**IMPORTANT: Read the attached Leaflet before use.**

FORM  
**SL**

CONTENTS  
**1L-200L**

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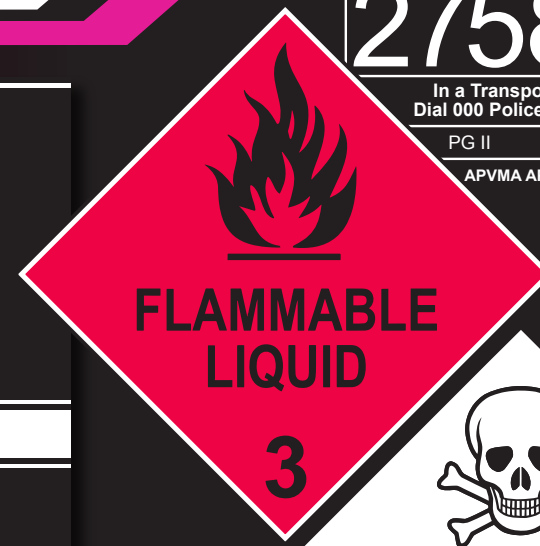
CARBAMATE  
PESTICIDE,  
LIQUID,  
FLAMMABLE,  
TOXIC  
(contains  
METHOMYL,  
METHANOL)

In a Transport Emergency  
Dial 000 Police or Fire Brigade

PG II

HAZCHEM ♦3WE

APVMA APPROVAL NO: 92346/142119



Batch No.  
DOM:

**IMTRADE**  
CropScience

17 Ocean St, Kwinana Beach WA 6167  
08 9419 0333 | [www.imtrade.com.au](http://www.imtrade.com.au)

**DANGEROUS POISON**  
**KEEP OUT OF REACH OF CHILDREN**  
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**ACTIVIST**<sup>®</sup>  
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BEFORE OPENING OR USING THIS PRODUCT**

**APVMA APPROVAL No: 92346/142119**

Imtrade Australia Pty Ltd  
ABN 13 090 151 134  
17 Ocean St, Kwinana Beach WA 6167  
(08) 9419 0333  
[www.imtrade.com.au](http://www.imtrade.com.au)

**RESTRAINTS:**

**DO NOT** use in covered or protected situations such as glasshouses, greenhouses or plastic tunnels.

**DO NOT** apply as a fog or mist.

**SPRAY DRIFT RESTRAINTS**

**DO NOT** apply as a fog or mist.

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

**DIRECTIONS FOR USE**

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Adzuki Beans	Heliiothis	NSW & WA only	0.5 or 1.0L/ha	7 (H)	<b>Ovicide/Larvicide:</b> Use only where crops are monitored regularly. Use low rate when eggs are present and high rate when heavy egg lay occurs and/or when first to second instar larvae are present (up to 5mm long).
			1.5 or 2.0L/ha		<b>Larvicide:</b> Apply when infestation reaches an economically damaging level and repeat if necessary. Use low rate on small larvae and light infestations and high rate on large larvae and heavy infestations.
	Green Vegetable Bug		1.5L/ha		Apply when infestation reaches an economically damaging level and repeat if necessary.

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS	
Apples	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. Concentrate spraying – Refer to the Application section in GENERAL INSTRUCTIONS.					
	Lightbrown Apple Moth	Qld, Vic, Tas, SA, WA only	Dilute spraying 150 or 200 mL/100L water	1 (H)	Apply at calyx stage and repeat each 14 days, or as required by pest pressure. Only use low rate in NSW, but in other states use high rate if infestation is heavy.	
		NSW only	Dilute spraying 150 mL/100L water			
	Clodding Moth	NSW, Vic, WA only				Apply on a 14 day schedule for late season control of light infestations only. Moderate to heavy infestations of codling moth will not be controlled.
	Heliothis	Tas & WA only	Dilute spraying 150 to 200 mL/100L water			Apply when number of larvae on shoots suggest economic damage is imminent.
Thrips, Dimpling Bug	Qld & WA only	Dilute spraying 200 mL/100L water		Apply when pests appear and repeat when necessary. Apply as a high volume spray ensuring adequate spray penetration to obtain effective control of the pests. Only apply when bees are not foraging.		
Broad Beans, French Beans, Navy Beans, Long Beans, Legume seed crops	Beanfly	Qld, NSW, WA, NT only	100 mL/100L water OR	1 (H)	Apply about 3 days after seedlings emerge and again 4 days later. Continue weekly applications until blossom.	
	Bean Thrips	Qld, NSW, SA, WA, NT only	1.5 to 2L/ha		Apply when pests first appear. Repeat depending on infestation. Spray to penetrate blossom. Use higher rate on heavier infestations.	
	Bean Pod Borer	Qld, WA, NT only	1.5 or 2.0L/ha		<b>Ovicide/Larvicide:</b> Refer to the Ovicidal/Larvicidal application instructions.	
	Heliothis	Qld, NSW, Tas, WA, NT only	100 mL/100L OR			<b>NOTE:</b> Control of Green Vegetable Bug is important during and after flowering.
			1.5 or 2L/ha			
Green Vegetable Bug, Loopers	Qld, NSW, WA, NT only	500 mL to 1 L/ha	1.5 L/ha			

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
<b>Blueberries</b>	Monolepta Beetle, <i>Helicoverpa</i> spp., Plague Thrip	NSW & WA only	100 mL/ 100 L	5 (H)	<b>Monolepta Beetle:</b> Apply according to pest incidence. <b><i>Helicoverpa</i> spp.:</b> Apply when the infestation reaches an economically damaging level. <b>Plague Thrip:</b> Apply when numerous on flowers.
<b>Brassicas</b> (Brussel Sprouts, Broccoli, Cabbages, Cauliflower)	Cabbage White Butterfly	Qld, WA, NT only	100 mL/ 100L water or 1L/ha	1 (H)	Apply when pests first appear. Repeat depending on infestation. Treatment will probably be required each 5 to 7 days during the growing season. Ensure thorough spray penetration. Use higher rate on heavier infestations.
		NSW, Vic, Tas, SA, WA only	1 or 2L/ha		
	Heliothis	Qld, NSW, Tas, SA, WA, NT only	1.5 or 2L/ha		
	Cabbage Centre Grub	Qld, NSW, SA, WA, NT only	1.5L/ha		
	Cluster Caterpillar	Qld, WA, NT only	1L/ha		
	Loopers	Qld, NSW, Vic, Tas, WA, NT only	1.5L/ha		
<b><i>Centrosema pascuorum</i> seed crops</b>	Green Vegetable Bug	NT & WA only	1.5 to 2L/ha	1 (H)	Apply through boom spray with hollow cone nozzles in 250L/ha water.
<b>Chickpeas</b>	Heliothis	Qld & WA only	1.5 to 2L/ha	1 (H)	Apply when pests first appear. Repeat depending on infestation. Ensure thorough spray penetration.

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Citrus	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. Concentrate spraying – Refer to the Application section in GENERAL INSTRUCTIONS.				
	Long-Tailed Mealybug	SA & WA only	Dilute spraying 200 mL/100L water	2 (H)	Apply in August or late November to early December when fruit is absent and young mealybug are present. Treatment will prevent mealybug attaching under the fruit calyx.
	Light Brown Apple Moth	NSW, SA, WA only			Apply in late November to early December when fruit is absent to prevent light brown apple moth attacking under the fruit calyx.
	Bronze Orange Bug, Spined Citrus Bug	Qld, Vic, SA, WA only	Dilute spraying 25 mL/100L water		Apply as populations indicate and before bugs reach the adult winged stage.
	Heliothis		Dilute spraying 200 mL/100L water		Spray only if heavy infestations occur on young foliage and fruit.
	Large Citrus Butterfly, Small Citrus Butterfly				Apply to cover unhardened leaves from recent growth flushes when infestations are noted in young trees only.
Cotton	Heliothis	Qld, NSW, WA only	500 mL or 1L/ha	Nil (H) <b>DO NOT</b> graze or feed treated crops to animals	Avoid contact with spray residue. Keep unprotected persons out of treated areas for at least 24 hours. <b>Ovicide/Larvicide:</b> Check crops every 2 to 3 days for egg and larval numbers. <b>Pre-Squaring:</b> Initiate sprays when significant number of eggs are present, i.e. 75 eggs per 100 plants. Continue at 4 to 5 day intervals while egg numbers are above these levels and larvae control is adequate. Add an effective larvicide at registered rates if significant numbers of small larvae (20 per 100 plants) are present. <b>Squaring:</b> Boll Maturing: Continue above schedule when 50 eggs or more per 100 plant terminals are found. Add an effective larvicide at registered rates if significant numbers of small larvae (10 per 100 plant terminals) are present. If large larvae survive or if <i>Heliothis amigera</i> becomes predominant use higher rates or add other effective larvicides. Refer to appropriate larvicide labels for directions for use. Use higher rate at peak egg laying and when 1st to 2nd instar larvae predominate. Good spray coverage is essential to assure good ovicidal activity. <b>NOTE:</b> Methomyl may cause reddening of foliage. If excessive, discontinue use.

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
<b>Cotton</b> <i>(continued)</i>	Heliothis	Qld, NSW, WA only	1.8 to 2.4L/ha	Nil (H) <b>DO NOT</b> graze or feed treated crops to animals	<b>Larvicide:</b> Apply as an occasional treatment in a spray programmed based on alternative insecticides. <b>DO NOT</b> use more often than every 14 days during active growth stages of the crop or alternatively apply up to 3 treatments at minimum of 3 day intervals between treatments after the boll load is set. <b>DO NOT</b> use during periods of plant stress. <b>NOTE:</b> Methomyl may cause reddening of foliage. If excessive, discontinue use.
	Loopers	Qld, WA only	1.8 to 2.4L/ha		
<b>Cowpeas</b>	Heliothis	NSW, SA, WA only	0.5 or 1L/ha	7 (H)	<b>Ovicide:</b> Apply as detailed for adzuki beans above.
			1.5 or 2L/ha		<b>Larvicide:</b> Apply as detailed for adzuki beans above
	Green Vegetable Bug		1.5L/ha		Apply when infestation reaches an economically damaging level and repeat if necessary.
<b>Duboisia</b>	Cluster Caterpillar	Qld & WA only	100 mL/100L or 1L/ha	-	Apply when pests first appear. Repeat depending on infestation.
<b>Ginger</b>	Heliothis		150 mL/100L or 1.5L/ha		Apply when damage is evident to young shoots at ground level.
<b>Grapevines/ Grapes</b>	<b>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. Concentrate spraying – Refer to the Application section in GENERAL INSTRUCTIONS.</b>				
	Light Brown Apple Moth, Vine Moth	All States	Dilute spraying 150 mL/100L water	7 (H)	Apply during early shoot growth/flowering if pests are a problem and again just before bunches close, if required. Control at later stages is difficult.
<b>Guar</b>	Green Vegetable Bug, Pod Sucking Bug	QLD & WA only	2L/ha	7 (H)	Apply when significant populations are noted.
<b>Hops</b>	Heliothis	Vic, Tas, WA only	2L/ha	14 (H) <b>DO NOT</b> graze treated crops.	Apply when pests first appear. Repeat depending on infestation. For high volume spraying, use at least 1000 L/ha of spray mixture. <b>DO NOT</b> use chemicals from the same group for consecutive sprays.
<b>Lentils</b>	Heliothis	Qld, NSW, WA only	1.5 to 2L/ha	7 (H)	Examine crops at least twice weekly during flowering, podding for caterpillars and their damage. Use the higher rate if infestation is heavy.

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS		
Lettuce: Field grown Head and Leafy Lettuce (not hydroponic Lettuce)	<i>Helicoverpa</i> spp. Larvae	All States	200mL/ 100L or 2L/ha	7 (H) Nil (G)	Apply when pests first appear. Repeat depending on infestation. For high-volume spraying, use at least 1000L/ha of spray mixture. <b>DO NOT</b> apply more than 4 applications per crop. There, <b>MUST</b> be at least a 3-day interval between consecutive applications. Observe the Western Flower Thrips Insecticide Resistance Management Strategy (available from <a href="http://www.dpi.nsw.gov.au/agriculture/horticulture/pests-diseases-hort/multiple/thrips/wft-resistance">http://www.dpi.nsw.gov.au/agriculture/horticulture/pests-diseases-hort/multiple/thrips/wft-resistance</a> ).		
	<i>Helicoverpa</i> spp. <i>Ova</i>		100mL/ 100L or 1L/ha				
	Cluster Caterpillar		200mL/ 100L or 2L/ha				
	Western Flower Thrips		200mL/ 100L or 2L/ha				
Linseed	Heliothis	Qld & WA only	1.5 or 2L/ha	7 (H)	Apply from early flowering and repeat depending on infestation. Larvae completely enclosed inside bolls may not be controlled. Use high rate for heavier infestations.		
Lucerne (forage, hay and seed)		Qld, NSW, Vic, Tas, SA, NT only	1.5 to 2L/ha			3 (G)	Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestations.
		WA only	1 to 2L/ha				
Lupins	Heliothis	Qld, NSW, WA only	1.5 or 2L/ha	7 (H)	Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestations.		
		Vic & Tas only	1.5L/ha				
Mint		Tas & WA only	1.5 or 2L/ha	14 (H)	Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestations.		
Mung Beans (Seed)	Heliothis	Qld, NSW, WA, NT only		7 (H)	<b>Larvicide:</b> Apply when pests first appear. Repeat depending on infestation.		
		Qld & WA only	500 mL to 1L			<b>Ovicide/Larvicide:</b> Refer to Ovicidal/Larvicidal Application instruction for more detail.	
	Green Vegetable Bug	Qld, NSW, WA, NT only	1.5L/ha		Apply when pests first appear. Repeat depending on infestations. <b>NOTE:</b> All armyworms, except the day feeding armyworm, feed mainly during the evening so spraying at dusk is recommended.		
	Bean Pod Borer	Qld, WA, NT only	1.5 to 2L/ha				



CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Pastures native & improved (alone or with Legumes)	Armyworms	Qld, NSW, SA, WA only	1.5 to 2L/ha	3 (G)	Apply when pests first appear. Repeat depending on infestations. <b>NOTE:</b> All armyworms, except the day feeding armyworm, feed mainly during the evening so spraying at dusk is recommended.
	Common Armyworm	Vic & WA only			
	Southern Armyworm	Tas & WA only			
	Buffel Grass Seed Caterpillar		1.75L/ha		
Pasture Legume seed crops	Heliiothis, Lucerne Blue Butterfly		1.5 to 2L/ha		Apply when pests appear (when webbing is just visible) and repeat if necessary. Ensure thorough spray penetration to obtain effective control of the pest.  Apply as infestations indicate during the flowering and pod setting period of crop development.
Peaches, Nectarines	<b>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. Concentrate spraying – Refer to the Application section in GENERAL INSTRUCTIONS.</b>				
	Green Peach Aphid	All States	Dilute spraying 100 mL/100L water	1 (H)	Apply when pests first appear. Repeat depending on infestation. <b>DO NOT</b> apply to early peach varieties such as Watts.
	Heliiothis	Tas & WA only	Dilute spraying 150 mL/100L water		
Peanuts	Heliiothis	Qld, WA, NT only	1.5 or 2L/ha	14 (H)	Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation.
Pears	<b>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. Concentrate spraying – Refer to the Application section in GENERAL INSTRUCTIONS.</b>				
	Light Brown Apple Moth	Vic & WA only	Dilute spraying 150 or 200 mL/100L	2 (H)	Apply at calyx stage from late November onwards and repeat at 14 day intervals or as required depending on infestation.

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Peas (including Field Peas)	Heliothis	Qld, NSW, SA, WA only	1.5 or 2L/ha	1 (H) Peas  7 (H) Field peas	Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation. Spray for good coverage and penetration.
		Vic & Tas only	1.5L/ha		
	Loopers Pea Thrips	Qld, NSW, Vic, SA, WA only	100 mL/ 100L water or 1L/ha		
Pigeon Peas	Green Vegetable Bug	NSW & WA only	1.5L/ha	7 (H)	Apply when infestation reaches an economically damaging level and repeat if necessary.
	Heliothis	Qld & WA only	1.5 to 2L/ha	14 (H)	Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation.
Poppies		Tas & WA only			
Potatoes	Potato Moth	All States	1.5 or 2L/ha	Nil	Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation.
	Potato Looper	Qld & WA only	1.5L/ha		
Rapeseed/ Canola (Seed)	Cabbage Moth	WA only	1L/ha	7 (H)	<b>Ovicide/Larvicide:</b> Refer to Ovicidal/ Larvicidal Application instructions.
	Heliothis	NSW, Vic, Tas, SA, WA only	1.5 to 2L/ha		
		NSW only	500 mL to 1L		
Sesame Seed	Corn Earworm	Qld, WA, NT only	1.5 to 2L/ha	14 (H)	Apply when significant populations are noted (Refer Larvicidal Application instructions for more detail).
	Green Vegetable Bug		1.5L/ha		
Sorghum	Heliothis	Qld, NSW, WA, NT only	1.5 to 2L/ha	14 (H) 14 (G)	Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation.
			500 mL or 1L/ha		<b>Ovicide/Larvicide:</b> Refer to Ovicidal/ Larvicidal Application instructions.
	Armyworm	Qld, NSW, WA, NT only	1.5L/ha		Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation. <b>NOTE:</b> All armyworms, except the day feeding armyworm, feed mainly during the evening so spraying at dusk is recommended.
	Sorghum Midge	Qld, WA, NT only	1L/ha		Apply when 1 midge/head is present from first emergence, from boot to pollen shedding. Repeat application when significant egg laying recommences.

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Soybeans	Green Vegetable Bug	Qld, NSW, WA, NT only	1.5L/ha	7 (H)	Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation.
	Loopers	Qld, WA, NT only			
	Heliothis	Qld, NSW, WA, NT only	1.5 or 2L/ha		<b>Larvicide:</b> Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation. <b>Ovicide/Larvicide:</b> Refer to Ovicidal/Larvicidal Application instructions.
			500 mL to 1L/ha		
Stonefruit (Cherries, Nectarines, Peaches)	<b>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. Concentrate spraying – Refer to the Application section in GENERAL INSTRUCTIONS.</b>				
	Thrips	Qld & WA only	Dilute spraying 200 mL/100L water	1 (H)	Apply at petal fall. Apply as a high volume spray ensuring adequate spray penetration.
Strawberries	Cluster Caterpillar, Heliothis, Loopers	Qld, NSW, Vic, Tas, WA, NT only	150 mL/100L water OR 1.5L/ha	Fresh: 3 (H) Frozen: 10 (H)	Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation. <b>NOTE:</b> To avoid the possibility of taint in strawberries to be frozen, <b>DO NOT</b> apply later than 10 days before harvest.
	Heliothis, Lightbrown Apple Moth	SA & WA only	150 or 200 mL/100L water		
Sunflowers	Green Vegetable Bug	Qld only	1.5L/ha	7 (H)	<b>NOTE:</b> Apply to sunflowers before seed heads turn over, to ensure spray penetration. <b>Ovicide/Larvicide:</b> Refer to Ovicidal/Larvicidal Application instructions.
		NSW & WA only	1.5 to 2L/ha		
	Heliothis	Qld only	1.5L/ha		
		NSW & WA only	1.5 to 2L/ha		
		SA only	2L/ha		
	Qld, NSW, SA, WA only	500 mL to 1L			

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Sweetcorn and Maize	Heliothis	All States	150 or 100 mL/100L or 1.5 or 2L/ha	1 (H) Sweetcorn 14 (H) Maize 3 (G) Sweetcorn (14 (G) Maize	<p><b>Larvicidal:</b> Apply initial spray at early silking or when eggs are first observed on silks. Repeat at 2 to 3 day intervals during silking if infestation continues. Use sufficient spray volume to thoroughly cover developing cobs. Use higher rate on heavier infestations. <b>NOTE:</b> Maize in NSW only may also require control at tasselling stage.</p> <p><b>Ovicidal:</b> Use this rate only where crops are monitored for eggs and larvae. Apply only when egg-laying occurs. As soon as larvae are present, use Larvicidal rates as recommended above.</p>
			200 mL/100L or 1L/ha Sweetcorn – NSW only: 500 mL to 1L/100L water		
Sweetcorn and Maize (continued)	Armyworm	Qld, NSW, SA, WA, NT only	1.5L/ha	1 (H) Sweetcorn 14 (H) Maize 3 (G) Sweetcorn (14 (G) Maize	Apply when pests first appear. Repeat depending on infestation. <b>NOTE:</b> All Armyworms, except the day feeding Armyworm, feed mainly during the evening so spraying at dusk is recommended.
Sweet Peppers (Capsicum)	Heliothis	Qld, WA, NT only	150 or 200 mL/100L water	1 (H)	Apply when pests first appear. Repeat depending on infestation, although the spray intervals should not exceed 7 days. Increase spray volume as plants increase in size. Use higher rate on heavier infestations.
Tea Tree	Xylorectid Caterpillar, Psyllid, Leafhopper, Crysomelid Beetle	NSW & WA only	1.5 to 2L/ha	Nil	Apply as a thorough foliar spray.

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS	
Tobacco	Cluster Caterpillar, Heliothis, Tobacco Leafminer, Tobacco Looper	Qld, NSW, Vic, WA only	100 mL/100L water	Nil	Apply when pests first occur. Repeat depending on infestation. The following is a guide: <b>Plant Age</b> <b>Litres spray/ha</b> 1 – 3 weeks                      250 4 weeks                              300 5 weeks                               450 6 weeks                               550 After 6 weeks                      900 – 1100 as required	
	Green Vegetable Bug, Leafhopper, Tobacco Thrips	Qld & WA only				
	Tobacco Stem Borer	Qld, NSW, WA only				Apply 10 days after seedlings emerge and repeat at 6 day intervals (7 day intervals in NSW only) until transplanting.
	Cutworm, True & False Wireworms, Grasshoppers, Seed harvesting ants (seed bed only)	Qld & WA only	150 or 200 mL/100L water OR 1.5 or 2L/ha			Cutworms and Wireworms: Apply at dusk or late afternoon, using 1 knapsack/30m length of bed. For field plants, ensure base of stem is well covered with spray. Use low rate for Cutworms, high rate for Wireworms. Grasshoppers: Use low rate and apply to fully grown plants when pests first appear. Repeat depending on infestation. Seed harvesting ants: use high rate and apply by pouring directly down the ant hole, in seed beds only.
	Stubby Root Nematode	Vic & WA only	20L/ha			Spray onto soil and incorporate to a depth of 10 cm just prior to transplanting.
	Common Brown Leafhopper (vector for tobacco yellow dwarf virus)	Vic & WA only	45 mL/100L water then 450 mL/100L water	Nil	Apply low rate in transplant water, then 6 weeks later apply high rate as an overall spray.	

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
Tomatoes	Heliothis	All States	50 or 100 mL/100L water or 500 mL or 1L/ha	1 (H)	<p><b>Ovicide:</b> (<i>Helicoverpa armigera</i> only): Apply the low rate when egg numbers indicate potential damage. Use the high rate at peak egg lay and when eggs are mainly in flowers and fruit.</p> <p><b>Larvicide:</b> Apply when pests first appear. Repeat depending on pest infestation, although the spray interval should not exceed 7 days. Increase spray volume as plants increase in size. Use higher rate on heavier infestations.</p>
		NSW & WA only	200 mL/100L water		
		Qld, Vic, Tas, SA, WA only	150 or 200 mL/100L water		
	Potato Moth, Tobacco Leafminer	Qld, NSW, WA, NT only	12		
	Green Vegetable Bug	Qld, Tas, WA, NT only			
Loopers		1.5L/ha			
Barley, Oats, Wheat	Armyworms	All States	1 or 1.5L/ha	14 (H) 14 (G)	<p>Apply when pests appear. Repeat depending on infestation. Use the low rate against larvae up to 20 mm long and the high rate against larger larvae. In Qld and WA use low rate for aerial application against Common Armyworm.</p> <p><b>NOTE:</b> All Armyworms, except the day feeding Armyworm, feed mainly during the evening so spraying at dusk is recommended.</p>
	Heliothis		1.5 to 2L/ha		Apply when pests appear. Repeat depending on infestation.

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

**THIS PRODUCT IS TOO HAZARDOUS FOR USE IN THE HOME GARDEN. IN TASMANIA, THIS PRODUCT MUST NOT BE APPLIED BY AIRCRAFT WITHOUT THE SPECIFIC APPROVAL OF THE REGISTRAR OF PESTICIDES.**

## **WITHHOLDING PERIODS (WHP)**

**(G) = Grazing (H) = Harvest**

### **HARVEST**

*Cotton, Dubiosia, Ginger, Pasture Legume Seed Crops, Potatoes, Tea Tree, Tobacco:* **DO NOT REQUIRED WHEN USED AS DIRECTED.**

*Apples, Beans, Brassicas, Centrosema Pascuorum Seed Crops, Chickpeas, Nectarines, Peaches, Peas, Stonefruit, Sweetcorn, Sweet Peppers (Capsicum), Tomatoes:* **DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.**

*Pears, Citrus:* **DO NOT HARVEST FOR 2 DAYS AFTER APPLICATION.**

*Strawberries (FRESH):* **DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION.**

*Blueberries:* **DO NOT HARVEST FOR 5 DAYS AFTER APPLICATION.**

*Adzuki Beans, Cowpeas, Field Peas, Grapes, Guar, Lentils, Lentils, Lettuce, Linseed, Mung Beans, Pigeon Peas, Rapeseed/Canola, Soybeans, Sunflowers:* **DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.**

*Strawberries (FROZEN):* **DO NOT HARVEST FOR 10 DAYS AFTER APPLICATION.**

*Barley Hops, Maize, Mint, Oats, Peanuts, Poppies, Sesame Seed, Sorghum, Wheat:* **DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.**

### **GRAZING**

*Lucerne, Pastures, Sweetcorn:* **DO NOT GRAZE OR CUT FOR STOCKFEED FOR 3 DAYS AFTER APPLICATION.**

*Barley, Maize, Oats, Sorghum, Wheat:* **DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 14 DAYS**

**AFTER APPLICATION.**

*Cotton, Hops and crops not otherwise specified above:* **DO NOT GRAZE OR FEED CROPS TO ANIMALS.**

### **EXPORT OF TREATED PRODUCE**

Growers should note that suitable MRLs or import tolerances may not be established in all markets for produce treated with ACTIVIST® 225 VeripHy®. If you are growing produce for export, please check with Imtrade for the latest information on MRLs and import tolerances BEFORE using ACTIVIST® 225 VeripHy®.

### **GENERAL INSTRUCTIONS**

ACTIVIST® 225 VeripHy® is a soluble concentrate to be dissolved in water for spray application. ALWAYS add a non-ionic agricultural wetting agent at a rate of 0.025% of active material. This is 25 mL/100L for most wetting agents. It is most effective when spray schedules are initiated on young insects. The lower rates are used on small larvae and light infestations, the higher rates on larger larvae and heavy infestations.

## MIXING

Add a few mLs of ACTIVIST® 225 VeripHy® to a sample of water to be used in the spray solution preparation and mix thoroughly.

If a yellow colouring is exhibited, this signals that the spray solution is acidic ( $\text{pH} < 7$ ) and alkaline hydrolysis is not a threat with no further action needed. Progress directly to spray solution preparation at full scale.

If a purple colouring is exhibited, this signals that the spray solution is alkaline ( $\text{pH} > 7$ ) and alkaline hydrolysis is a threat. The spray tank dilution water requires treatment with an acidifying agent. Imtrade Pro 700 Surfactant (APVMA Product No. 64260) or an equivalent product should be added in line with label directions to reduce the pH a preferred level and preserve Methomyl. After acidification retest the dilution water by adding a few mLs of ACTIVIST® 225 VeripHy® and only progress to spray solution preparation at full scale when a yellow colouring is exhibited.

Fill spray tank  $\frac{1}{4}$  to  $\frac{1}{2}$  full of water. Start agitation (using mechanical or hydraulic means. NOT air agitation), add required quantity of ACTIVIST® 225 VeripHy® and continue filling with water. Add non-ionic wetting agents as recommended previously. Continue agitation for several minutes prior to spraying to ensure thorough mixing.

## APPLICATION

Proper timing and good coverage is essential for effective insect control.

**Larvicidal:** Apply at the recommended rates when the insects first appear and repeat as needed. Apply the lower rates on small caterpillars and light infestations of insects. Use the higher rates on larger caterpillars and heavier infestations. Best control is obtained when spray schedules are initiated on young insects.

**Ovicidal/Larvicidal:** Use these rates only where crops are regularly monitored for eggs and larvae. Use the lower rate when eggs are present. Use the higher rate when heavy egg lays occur and/or when first to second instar larvae are present (up to 5 mm long). If large larvae are present (longer than 5 mm), use the larvicide rates as recommended. This product may be used at ovicidal/larvicidal rates in conjunction with other recommended larvicides used to control other insects.

### Ground Application

Apply as a coarse spray with low pressure ground equipment. Use sufficient water to obtain thorough, uniform coverage.



## Special instructions for Tree Crops/Vines

### 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 100L 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 (this is a sprayer which applies water 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 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 1500L/ha.
  2. Your chosen concentrate spray volume: For example 500L/ha.
  3. The concentration factor in this example is 3X (i.e.  $1500L \div 500L = 3$ ).
  4. If the dilute label rate is 10g/100L, then the concentrate rate becomes  $3 \times 10$ , that is 30g/100L of concentrate spray.
- The chosen spray volume, amount of product per 100L 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.

### Air Application

For Cotton, Soybeans, Sorghum, Mung beans, Sunflowers, Pastures, Winter Cereals and Linseed only: **DO NOT** use less than 22L/ha water and increase the spray volume according to density of crop and pest pressure. Turn off spray boom while passing over creeks or dams.

### COMPATIBILITY

As the formulations of other manufacturers products are beyond the control of Imtrade, all mixtures should be tested prior to mixing commercial quantities.

## VeripHy® Colour Indication

Methomyl is subject to alkaline hydrolysis once diluted as a spray solution, being the degradation of active ingredient content on reaction with water, at  $\text{pH} > 7$ .

The magnitude of degradation of Methomyl varies with temperature, time held in the spray tank, the presence of other chemicals and contaminants and the extent to which the pH level is greater than 7.

To proactively manage the threat of alkaline hydrolysis, ACTIVIST® 225 VeripHy® is equipped with colour indication technology. This forewarns when there may be a problem and equally provides surety when there is not.

Add a few mLs of ACTIVIST® 225 VeripHy® to a sample of water to be used in the spray solution preparation and mix thoroughly.

If a yellow colouring is exhibited, this signals that the spray solution is acidic ( $\text{pH} < 7$ ) and alkaline hydrolysis is not a threat with no further action needed. Progress directly to spray solution preparation at full scale.

If a purple colouring is exhibited, this signals that the spray solution is alkaline ( $\text{pH} > 7$ ) and alkaline hydrolysis is a threat. The spray tank dilution water requires treatment with an acidifying agent. Imtrade Pro 700 Surfactant (APVMA Product No. 64260) or an equivalent product should be added in line with label directions to reduce the pH a preferred level and preserve Methomyl. After acidification retest the dilution water by adding a few mLs of ACTIVIST® 225 VeripHy® and only progress to spray solution preparation at full scale when a yellow colouring is exhibited.

OK	Acidify – add Imtrade Pro 700 Surfactant
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## INSECTICIDE RESISTANCE WARNING

### GROUP 1A INSECTICIDE

For insecticide resistance management, ACTIVIST® 225 VeripHy® is a Group 1A Insecticide. Some naturally occurring insect biotypes resistant to ACTIVIST® 225 VeripHy® and other Group 1A Insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if ACTIVIST® 225 VeripHy® or other Group 1A Insecticides are used repeatedly. The effectiveness of ACTIVIST® 225 VeripHy® on resistant individuals could be significantly reduced.

Since the occurrence of resistant individuals is difficult to detect prior to use, Imtrade CropScience accepts no liability for any losses that may result from the failure of this product to control resistant insects. ACTIVIST® 225 VeripHy® may be subject to specific resistance management strategies.

For further information contact your local supplier, Imtrade representative or local agricultural department agronomist.

## **PRECAUTION**

Keep unprotected persons and animals out of operational areas during treatment and while there is a danger of drift. Avoid contact with spray residues.

## **RE-ENTRY PERIOD**

**DO NOT** allow entry into treated areas for at least 24 hours after treatment. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) a washable hat and elbow-length chemical resistant gloves. Clothing must be laundered after each days use.

## **PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS**

**DO NOT** apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.

## **PROTECTION OF WILDLIFE, FISH, CRUSTACEAN AND ENVIRONMENT**

**Dangerous to birds, fish, stock and wildlife. Birds feeding on treated areas may be killed. Dangerous to bees.**

**DO NOT** spray any plants in flower while bees are foraging. Ensure beehives are removed from the area to be treated and from adjacent paddocks. **DO NOT** contaminate streams, rivers or watercourses with the chemical or used containers. **DO NOT** re-use container.

## **STORAGE AND DISPOSAL**

**The method of disposal of the container depends on the container type. Read the Storage and Disposal instructions on the label that is attached to the container.**

Store in the closed, original container in a dry, cool, secure, well-ventilated area. **DO NOT** store for prolonged periods in direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilizers.

### ***All other 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 for appropriate disposal to 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 and product.

### **Envirodrum - Micro Matic Valve (110L)**

Store the original sealed Envirodrum in a cool, well ventilated area. **DO NOT** store for prolonged periods in direct sunlight. **DO NOT** tamper with the Micro Matic valve or the security seal. **DO NOT** contaminate the Envirodrum with water or any other foreign matter. After each use of the product please ensure that the Micro Matic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the Envirodrum have been used, please return the empty Envirodrum to the point of purchase.

### **Refillable containers (1000L only)**

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

## SAFETY DIRECTIONS

**Very dangerous, particularly the concentrate.** Product and spray are poisonous if absorbed by skin contact, inhaled or swallowed. Attacks the eyes. Will irritate the nose, throat and skin. Repeated minor exposure may have a cumulative poisoning effect. Avoid contact with eyes, skin and clothing. **DO NOT** inhale vapour or spray mist. Protect eyes while using. Obtain an emergency supply of atropine tablets 0.6 mg. When opening the container and preparing spray, wear elbow-length chemical resistant gloves and a face shield. When using the prepared spray, wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length chemical resistant gloves, impervious footwear and half-face piece respirator with combined dust and gas cartridge/canister. If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product or spray on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hand, arms, face thoroughly with soap and water. After each day's use, wash gloves, face shield, respirator or face piece and contaminated clothing. Wash rubber respirator with detergent and warm water.

## FIRST AID

If swallowed, splashed on skin or in eyes, or inhaled, contact Poisons Information Centre (*Phone Australia 13 11 26; New Zealand 0800 764 766*) or a doctor at once. Remove any contaminated clothing and wash skin thoroughly. If swallowed, activated charcoal may be advised. Give atropine if instructed.

## Advice to Doctor

Methomyl is a reversible cholinesterase inhibitor. Atropine sulphate should be used for treatment, 1.2 to 2.0 mg i.v. every 10 to 30 minutes until full atropinisation is achieved. Maintain full atropinisation until patient recovers. **DO NOT** use morphine or 2-PAM. Artificial respiration or oxygen may be necessary. Allow no further exposure to cholinesterase inhibitors until recovery is assured.

### **Additional GHS Hazard & Precautionary Statements**

- Highly flammable liquid and vapour; •Fatal if swallowed; •Causes damage to organs;
- Very toxic to aquatic life with long-lasting effects; •Keep away from heat, sparks, open flames and hot surfaces – No smoking; •Keep container tightly closed; •Ground/bond container and receiving equipment; •Take precautionary measures against static charge;
- DO NOT** breathe fumes or spray; •**DO NOT** get in eyes, on skin or on clothing; •Wash contact areas thoroughly after handling; Use only outdoors or in a well-ventilated area;
- DO NOT** eat, drink or smoke when using this product; •**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing; •**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing; •If exposed: Call a POISON CENTRE or doctor; •If skin irritation occurs: Get medical advice; •If eye irritation persists: Get medical advice; •In case of fire, use carbon dioxide, dry chemical, foam, water fog; •Store locked up.

## SAFETY DATA SHEET

For further information refer to the Safety Data Sheet which is available from your supplier or Imtrade CropScience website at [www.imtrade.com.au](http://www.imtrade.com.au)

## CONDITIONS OF SALE

Imtrade CropScience shall not be liable for any loss, injury, damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on Imtrade's skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of Imtrade CropScience has any authority to add to or alter these conditions.

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<b>UN 2758</b>	<b>CARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC (contains METHOMYL, METHANOL)</b>
<b>IN A TRANSPORT EMERGENCY DIAL 000 POLICE OR FIRE BRIGADE</b>	
<b>PG II</b>	<b>HAZCHEM •3WE</b>

APVMA Approval No. 92346/142119

