

DANGEROUS POISON

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

MacPhersons

SENECA Insecticide

ACTIVE CONSTITUENT: 225 g/L METHOMYL (an anti-cholinesterase compound)
SOLVENT: 593 g/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

RONIC International Pty Ltd
9 Heales Rd, Lara, VIC, 3212
Ph (03) 5274 2500, Fax (03) 8612 3663
www.agshop.com.au

MacPhersons

CONTENTS: 5 Litres

STORAGE AND DISPOSAL

KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAMES.

Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilizers.

Triple or preferably pressure 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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

SAFETY DIRECTIONS

Infopest Verified
Early the concentrate. Product and spray are poisonous if absorbed by skin contact, inhaled or eyes. Will irritate the nose, throat and skin. Repeated minor exposure may have a cumulative effect. Avoid contact with eyes, skin and clothing. Do not inhale vapour or spray mist. Protect eyes while using. Obtain supply of atropine tablets 0.6mg. When opening the container and preparing spray, wear elbow length face shield. When using the prepared spray wear cotton overalls buttoned to the neck and wrist and get PVC gloves, impervious footwear and half face-piece respirator with combined dust and gas filter. If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product gets on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, face and body thoroughly with soap and water. After each days use, wash gloves, face shield, respirator or face-piece and contaminated clothing. Wash rubber respirator with detergent and warm water.

FIRST AID

If poisoning occurs, contact a Doctor or Poisons Information Centre. **Phone 13 11 26.**

If swallowed, give one atropine tablet every 5 minutes until dryness of the mouth occurs - if poisoned by skin absorption or through lungs, remove any contaminated clothing, wash skin thoroughly and give atropine tablets as above. Get to a doctor or hospital quickly.

Advice to Doctor

Methomyl is a reversible cholinesterase inhibitor. Atropine sulphate should be used for treatment, 1.2 to 2.0mg 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.

MATERIAL SAFETY DATA SHEET

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

CARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC (contains methanol, methomyl)		
UN 2758	PG II	HAZCHEM 3WE
 		IN AN EMERGENCY DIAL 000 POLICE OR FIRE BRIGADE

EXCLUSION OF LIABILITY

This product must be used strictly as directed, and in accordance with all instructions appearing on the label and in other reference material. So far as it is lawfully able to do so, RONIC International Pty Ltd accepts no liability or responsibility for loss or damage arising from failure to follow such direction and instructions.



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APVMA Approval No: 59697/5/0307

Batch Number:

Date Of Manufacture:

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GROUP

1A

INSECTICIDE

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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 0.6mg. 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 and washable hat, elbow length PVC 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 hands, arms and face thoroughly with soap and water. After each days use, wash gloves, face shield, respirator or face-piece and contaminated clothing. Wash rubber respirator with detergent and warm water.

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PG II

HAZCHEM 3WE



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DIRECTIONS FOR USE

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

CROP	PEST	STATE	RATE	WHP (DAYS) H-Harvest G-Grazing	CRITICAL COMMENTS
Adzuki beans	Heliothis	NSW, WA only	0.5 or 1.0L/ha	7(H)	Ovicide/Larvicide: Use only where crops are monitored regularly. Use low rate when eggs are present and high rate when heavy egg by occurs and/or when first to second instar larvae are present (up to 5mm long).
			1.5 or 2.0L/ha		Larvicide: 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.
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 .				
	Light brown apple moth	Old, Vic, Tas, SA, WA only	Dilute spraying 150 or 200mL/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 150mL/100L water		
	Codling 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 200mL/100L water		Apply when number of larvae on shoots suggest economic damage is imminent.
	Thrips, dimpling bug	Old, WA only	Dilute spraying 200mL/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	Bean fly	Old, NSW, WA, NT only	100mL/100L water OR 1.5 to 2L/ha	1(H)	Apply about 3 days after seedlings emerge and again 4 days later. Continue weekly applications until blossom.
	Bean thrips	Old, NSW, SA, WA, NT only			Apply when pests first appear. Repeat depending on infestation. Spray to penetrate blossom. Use higher rate on heavier infestations.
	Bean pod borer	Old, WA, NT only	1.5 or 2.0L/ha		
	Heliothis	Old, NSW, Tas, WA, NT only	100mL/100L OR 1.5 or 2L/ha		
			500mL to 1L/ha		OVICIDE/LARVICIDE: Refer to Ovicide/Larvicide application instructions.
	Green vegetable bug, loopers	Old, NSW, WA, NT only	1.5L/ha		NOTE: Control of green vegetable bug is important during and after flowering.
Blueberries	Monolepta beetle, Helicoverpa spp., plague thrip	NSW & WA only	100mL/100L	5(H)	Monolepta beetle: Apply according to pest incidence. Helicoverpa spp.: Apply when the infestation reaches an economically damaging level. Plague thrip: Apply when numerous on flowers.
Brassicac sprouts, cauliflower, broccoli, cabbages)	Cabbage white butterfly	Old, WA, NT only	100mL/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	Old, NSW, Tas, SA, WA, NT only	1.5 or 2L/ha		
	Cabbage centre grub	Old, NSW, SA, WA, NT only	1.5L/ha		
	Cluster caterpillar	Old, WA, NT only	1L/ha		
	Loopers	Old, NSW, Vic, Tas, WA, NT only	1.5L/ha		
Centrosema pasadenae seed crops	Green vegetable bug	NT & WA only	1.5 to 2L/ha	1(H)	Apply through boom spray with hollow cone nozzles in 250 L/ha water.
Chickpeas	Heliothis	Old, WA only	1.5 to 2L/ha	1(H)	Apply when pests first appear. Repeat depending on infestation. Ensure thorough spray penetration.
Citrus	Refer Critical Comments opposite				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 mealy bug	SA, WA only	Dilute spraying 200mL/100L water	2(H)	Apply in August or late November to early December when fruit is absent and young mealy bug are present. Treatment will prevent mealy bug attacking 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	Old, Vic, SA, WA only	Dilute spraying 25mL/100L water		Apply as populations indicate and before bugs reach the adult winged stage.
	Heliothis		Dilute spraying 200mL/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 rooted in young trees only.

CROP	PEST	STATE	RATE	WHP (DAYS) H=Harvest G=Grazing	CRITICAL COMMENTS
Cotton	Heliothis	Old, NSW, WA only	500mL or 1L/ha	Nil (H) DO NOT graze or feed treated crops to animals	Avoid contact with spray residue. Keep unprotected persons out of treated areas for at least 24hrs. Ovicide/Larvicide: Check crops every 2-3 days for egg and larval numbers. Pre-Squaring: Initiate sprays when significant number of eggs are present, i.e. 75 eggs per 100 plants. Continue at 4-5 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. Squaring: Both 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 armigera</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. NOTE: Methomyl may cause reddening of foliage. If excessive, discontinue use.
			1.8 to 2.4L/ha		
	Loopers	Old, WA only	1.8 to 2.4L/ha		
Cowpeas	Heliothis	NSW, SA, WA only	0.5 or 1L/ha	7 (H)	Ovicide: Apply as detailed for adzuki beans above.
			1.5 or 2L/ha		Larvicide: Apply as detailed for adzuki beans as above.
	Green vegetable bug		1.5L/ha		Apply when infestation reaches an economically damaging level and repeat if necessary.
Duboisia	Cluster caterpillar	Old, WA only	100mL/100L OR 1L/ha		Apply when pests first appear. Repeat depending on infestation.
Ginger	Heliothis		150mL/100L or 1.5L/ha		Apply when damage is evident to young shoots at ground level
Grapevines /grapes	Refer Critical Comments opposite				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.
	Light brown apple moth, Vine moth	All States	Dilute spraying 150mL/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.
Guar	Green vegetable bug, pod sucking bug	Old, WA only	2L/ha	7 (H)	Apply when significant populations are noted.
Hops	Heliothis	Vic, Tas, WA only	2L/ha	14 (H) DO NOT graze treated crops	Apply when pests first appear. Repeat depending on infestation. For high volume spraying, use at least 1000L/ha of spray mixture. DO NOT use chemicals from the same group for consecutive sprays.
Lentils	Heliothis	Old, 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.
Linseed	Heliothis	Old, 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)		Old, 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	Old, 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	Old, NSW, WA, NT only		7 (H)	LARVICIDE: Apply when pests first appear. Repeat depending on infestation.
		Old, WA only	500mL to 1L/ha		OVICIDE/LARVICIDE: Refer to Ovicide/ Larvicide Application instruction for more detail.
	Green vegetable bug	Old, NSW, WA, NT only	1.5L/ha		Apply when pests first appear. Repeat depending on infestations.
	Bean pod borer	Old, WA, NT only	1.5 to 2L/ha		
Pastures native & improved (alone or with legumes)	Armyworms	Old, NSW, SA, WA only		3 (G)	Apply when pests first appear. Repeat depending on infestations. Note: All armyworms, except the day feeding armyworms, feed mainly during the evening so spraying at dusk is recommended.
	Common armyworm	Vic, WA only			
	Southern armyworm	Tas & WA only			
	Butterfly grass seed caterpillar	Old, WA only	1.75L/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.
Pasture legume seed crops	Heliothis, Lucerne blue butterfly		1.5 to 2L/ha		Apply as infestations indicate during the flowering and pod setting period of crop development.
Peaches, nectarines	Refer Critical Comments opposite				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.
	Green peach aphid	All States	Dilute spraying 100mL/ 100L water	1 (H)	Apply when pests first appear. Repeat depending on infestation. DO NOT apply to early peach varieties such as Watts.
	Heliothis	Tas, WA only	Dilute spraying 150mL/ 100L water		
Peanuts	Heliothis	Old, 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	Refer Critical Comments opposite				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.
	Light brown apple moth	Vic, WA only	Dilute spraying 150mL OR 200mL/100L	2 (H)	Apply at calyx stage from late November onwards and repeat at 14 day intervals or as required depending on infestation.
Peas (including field peas)	Heliothis	Old, 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	Old, NSW, Vic, SA, WA only			
	Pea thrips		100mL/ 100L water OR 1L/ha		



CROP	PEST	STATE	RATE	WHP (DAYS) H=Harvest G=Grazing	CRITICAL COMMENTS
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	Old, WA only	1.5 to 2L/ha		Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation.
Poppies		Tas, WA only		14 (H)	
Potatoes	Potato moth	All States		Nil	
	Potato looper	Old, WA only	1.5L/ha		
Rapeseed /canola (Seed)	Cabbage moth	WA only	1L/ha	7 (H)	
	Heliothis	NSW, Vic, Tas, SA, WA only	1.5 to 2L/ha		
		NSW only	500mL to 1L/ha		OVICIDE/LARVICIDE: Refer to Ovicidal/Larvicidal application instructions
Sesame seed	Corn earworm	Old, 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	Old, NSW, WA, NT only	1.5 or 2L/ha	14 (H) 14 (G)	Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation.
			500mL to 1L/ha		Ovicide/Larvicide: Refer to Ovicide/Larvicide Application instructions.
	Armyworm	Old, NSW, WA, NT only	1.5L/ha		Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation. NOTE: All armyworms, except the dayfeeder armyworm, feed mainly during the evenings so spraying at dusk is recommended.
	Sorghum midge	Old, WA, NT only	1L/ha		Apply when 1 midgehead is present from first emergence, from boot to pollen shedding. Repeat application when significant egg laying recommences.
Soybeans	Green vegetable bug	Old, 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	Old, WA, NT only			
	Heliothis	Old, NSW, WA, NT only	1.5 or 2L/ha		Larvicide: Apply when pests first appear. Repeat depending on infestation. Use higher rate on heavier infestation.
			500mL to 1L/ha		Ovicide/Larvicide: Refer to Ovicide/Larvicide Application instructions.
Stonefruit (cherries, nectarines, peaches)	Refer Critical Comments opposite				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.
	Thrips	Old, WA only	Dilute spraying 200mL/100L water	1 (H)	Apply at petal fall. Apply as a high volume spray ensuring adequate spray penetration.
Strawberries	Cluster caterpillar, heliothis, loopers	Old, NSW, Vic, Tas, WA, NT only	150mL/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. NOTE: To avoid the possibility of bait in strawberries to be frozen, do not apply later than 10 days before harvest.
	Heliothis, light brown apple moth	SA, WA only	150mL OR 200mL/100L water		
Sunflowers	Green vegetable bug	Old only	1.5L/ha	7 (H)	NOTE: Apply sunflowers before seed heads turn over to ensure spray penetration.
		NSW, WA only	1.5 to 2L/ha		
	Heliothis	Old only	1.5L/ha		Ovicide/LARVICIDE: Refer to Ovicidal/Larvicidal Application instructions.
		NSW, WA only	1.5 or 2L/ha		
		SA only	2L/ha		
Sweetcorn and maize	Heliothis	All States	150 or 200mL/100L OR 1.5 or 2L/ha	1 (H) Sweetcorn 14 (H) Maize	LARVICIDAL : 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 spraying volume to thoroughly cover developing cobs. Use higher rate on heavier infestations. NOTE: Maize in NSW only may also require control at tasselling stage.
				3 (G) Sweetcorn	
			190mL/100L OR 1L/ha Sweetcorn – NSW only. 500mL to 1L/100L water	14 (G) Maize	OVICIDAL: 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.
	Armyworm	Old, NSW, SA, WA, NT only	1.5L/ha		Apply when pests first appear. Repeat depending on infestation. NOTE: All armyworms, except the dayfeeder armyworm, feed mainly during the evenings, so spraying at dusk is recommended.
Sweet peppers (capsicum)	Heliothis	Old, WA, NT only	150 OR 200mL/100L water	1 (H)	Apply when pests first appear. Repeat depending on pest 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	Xyleborid caterpillar, psyllid, leafhopper, chrysomelid beetle	NSW & WA only	1.5 to 2L/ha	Nil	Apply as a thorough foliar spray.
Tobacco	Cluster caterpillar, heliothis, tobacco leafminer, tobacco looper	Old, NSW, Vic, WA only	100mL/100L water	Nil	Apply when pests first occur. Repeat depending on infestation. The following is a guide : 2-3rd instar 1-3 weeks 250 4 weeks 300 5 weeks 450 6 weeks 550 After 6 weeks as required 900-1100
	Green vegetable bug, leaf hopper, tobacco thrip	Old, WA only			
	Tobacco stem borer	Old, 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)	Old, WA only	150 or 200mL/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 10cm just prior to transplanting.
	Common brown leafhopper (vector for tobacco yellow dwarf virus)		45mL/100L water then 450mL/100L water		Apply low rate in transplant water, then 6 weeks later apply high rate as an overall spray.
Tomatoes	Heliothis	All States	50 or 100mL/100L water OR 500mL or 1L/ha	1 (H)	Ovicide: (Helicoverpa armigera 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.
		NSW & WA only	200mL/100L water		Larvicide: 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.
		Old, Vic, Tas, SA & WA only	150 or 200mL/100L water		
	Potato moth, tobacco leaf miner	Old, NSW, WA, NT only			
	Green vegetable bug	Old, Tas, WA, NT only	150mL/100L water OR 1.5L/ha		
	Loopers		1.5L/ha		
Wheat, barley, oats	Armyworms	All States	1 or 1.5L/ha	14 (H) 14 (G)	Apply when pests appear. Repeat depending on pest infestation. Use the low rate against larvae up to 30mm long and the high rate against larger larvae. In Old and WA use low rate for aerial application against common armyworm. NOTE: All armyworms, except the dayfeeder armyworm, feed mainly during the evening so spraying at dusk is recommended.
	Helicobis		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
DO NOT APPLY LATER THAN THE NUMBER OF DAYS SHOWN BEFORE HARVEST:

Apples, beans, brassicas, <i>Centrosema pascurum</i> seed crops, chickpeas, nectarines, peaches, peas, stonefruit, sweetcorn, sweet peppers (capsicum), tomatoes	: 1 DAY
Pears, Citrus	: 2 DAYS
Strawberries (fresh)	: 3 DAYS
Strawberries (frozen)	: 10 DAYS
Blueberries	: 5 DAYS
Azuki beans, cowpeas, field peas, grapes, guar, lentils, linseed, lupins, mung beans, pigeon peas, rapeseed/canola, soybeans, sunflowers	: 7 DAYS
Barley, hops, maize, mint, oats, peanuts, poppies, sesame seed, sorghum, wheat	: 14 DAYS

Cotton, duboisia, ginger, pasture legume seed crops, potatoes, tea tree, tobacco :
NOT REQUIRED WHEN USED AS DIRECTED.

GRAZING
DO NOT GRAZE OR CUT FOR STOCK FOOD EARLIER THAN THE NUMBER OF DAYS SHOWN AFTER APPLICATION

Lucerne, Pastures, sweetcom	: 3 DAYS
Barley, maize, oats, sorghum, wheat	: 14 DAYS

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

GENERAL INSTRUCTIONS :
MacPhersons SENECA Insecticide is a water miscible liquid to be dissolved in water for spray application. 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.

USE OF WETTING AGENT
ALWAYS add a non-ionic agricultural wetting agent such as MacPhersons Wetter 600 at a rate of 25mL/100L of spray solution.

INSECTICIDE RESISTANCE WARNING

GROUP

1A

INSECTICIDE

For insecticide resistance management MacPhersons SENECA Insecticide is a Group 1A insecticide. Some naturally occurring insect biotypes resistant to MacPhersons SENECA Insecticide 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 MacPhersons SENECA Insecticide or other Group 1A insecticides are used repeatedly. The effectiveness of MacPhersons SENECA Insecticide on resistant individuals could be significantly reduced. Since the occurrence of resistant individuals is difficult to detect prior to use, RONIC International Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant insects. MacPhersons SENECA Insecticide may be subject to specific resistance management strategies. For further information contact your local supplier, RONIC International Pty Ltd representative or local agricultural department agronomist.

Export of Treated Produce
Growers should note that suitable MRL's or import tolerances may not be established in all markets for produce treated with MacPhersons SENECA Insecticide. If you are growing produce for export, please check with RONIC for the latest information on MRL's and import tolerances BEFORE using MacPhersons SENECA Insecticide.

Mixing
Fill spray tank 1/4 to 1/2 full of water. Start agitation (using mechanical or hydraulic means, NOT air agitation), add required quantity of MacPhersons SENECA Insecticide 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
Apply when wind velocity is low, to avoid drift.
DO NOT apply as a fog or mist.
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 are present (up to 5mm long). If large larvae are present (longer than 5mm) 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 (that 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

- Dilute spray volume as determined above; For example 1500L/ha
- Your chosen concentrate spray volume; For example 500L/ha
- The concentration factor in this example is 3 X (I.E. 1500L ÷ 500L = 3)
- If the dilute label rate is 10mL/100L, then the concentrate rate becomes 3 x 10, that is, 30mL/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, inter 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
This product can be mixed in the spray tank with one of the following insecticides : Chlorfens ®, Larvin ® 375. Mixtures with other insecticides should be tested for compatibility prior to mixing commercial quantities.

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 PVC 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. Avoid drift by applying when wind velocity is low.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS 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 waterways with the chemical or used containers. DO NOT re-use container.

STORAGE AND DISPOSAL
KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAMES.
Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers.

Triple or preferably pressure 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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

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 0.6mg. 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 and washable hat, elbow length PVC gloves, impervious footwear and half face-piece respirator with combined dust and gas cartridge/filter. 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 hands, arms and face thoroughly with soap and water. After each days use, wash gloves, face shield, respirator or face-piece and contaminated clothing. Wash rubber respirator with detergent and warm water.

FIRST AID
If poisoning occurs, contact a Doctor or Poisons Information Centre. **Phone 13 11 26.**
If swallowed, give one atropine tablet every 5 minutes until dryness of the mouth occurs - if poisoned by skin absorption or through lungs, remove any contaminated clothing, wash skin thoroughly and give atropine tablets as above. Get to a doctor or hospital quickly.

Advice to Doctor
Methorol is a reversible cholinesterase inhibitor. Atropine sulphate should be used for treatment, 1.2 to 2.0mg 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.

MATERIAL SAFETY DATA SHEET
Additional information is listed in the Materials Safety Data Sheet, which can be obtained from the supplier.

CARBAMATE PESTICIDE, LIQUID, FLAMMABLE, TOXIC (contains methanol, methionyl)		
UN 2758	PG II	HAZCHEM 3WE
		IN AN EMERGENCY DIAL 000 POLICE OR FIRE BRIGADE

EXCLUSION OF LIABILITY
This product must be used strictly as directed, and in accordance with all instructions appearing on the label and in other reference material. So far as it is lawfully able to do so, RONIC International Pty Ltd accepts no liability or responsibility for loss or damage arising from failure to follow such direction and instructions.

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