

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



EMULSIFIABLE CONCENTRATE INSECTICIDE

ACTIVE CONSTITUENT: 350g/L ENDOSULFAN SOLVENT: 646g/L LIQUID HYDROCARBONS



For the control of certain insect pests on various crops as per directions for use.

RESTRICTED CHEMICAL PRODUCT - ONLY TO BE SUPPLIED TO OR USED BY AN AUTHORISED PERSON.

A CONDITION OF REGISTRATION OF THIS PRODUCT IS THAT IT WILL ONLY BE SUPPLIED TO AN AUTHORISED PERSON. TO DO OTHERWISE IS AN OFFENCE UNDER THE AGVET CODE.

IMPORTANT: READ THE ATTACHED BOOKLET BEFORE OPENING OR USING THIS PRODUCT.

CONTENTS: 20, 200, 1000 LITRES

Crop Care Australasia Pty Ltd, Unit 15/16 Metroplex Avenue Murarrie Qld 4172. STORAGE AND DISPOSAL (20 & 200L only)

Store in the closed, original container in a cool, 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 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 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 500 mm 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.

STORAGE AND DISPOSAL (1000L only)

DO NOT store or handle near heat or naked flame. Store in the closed, original container in a cool, wellventilated area. Do not store for prolonged periods in direct sunlight. Store this tightly closed minibulk container in a safe and secure place away from children, animals, food and feedstuffs. Storage must be secure so that contents cannot be tampered with. All locks and/or seals must be in order. If locks or seals are broken prior to initial use then the integrity of this product cannot be assured. If this occurs Crop Care Australasia Pty Ltd should be advised immediately. This minibulk container is reusable and remains the property of Crop Care Australasia Pty Ltd. DO NOT rinse empty container. No other liquid, solid or pesticide product should be put into it. When empty return to Crop Care Australasia Pty Ltd for cleaning, relabelling and refilling.

SAFETY DIRECTIONS

Very dangerous particularly the concentrate product. Undiluted product poisonous if absorbed by skin contact, inhaled or swallowed. Will damage the eyes. Will irritate the nose, throat and skin. Avoid contact with eyes and skin. DO NOT inhale vapour. If clothing becomes contaminated with product or wet with spray remove clothing immediately. If product on skin immediately wash area with soap and water. If product in eyes, wash it out immediately with water. When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrist [or equivalent clothing], elbow-length PVC gloves, and full-facepiece (or half facepiece respirator and goggles). When using the prepared spray, wear cotton overalls buttoned to the neck and wrist [or equivalent clothing]. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, respirator (and if rubber wash with detergent and warm water), goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

MATERIAL SAFETY DATA SHEET

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

Conditions of sale

Crop Care Australasia Pty Ltd will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply or use of these goods other than responsibility for the merchantable quality of the goods and such responsibilities imposed by Statutes applicable to the sale or supply of these goods. To the extent allowed by such Statutes the liability of Crop Care Australasia Pty Ltd is limited to the replacement of the goods or (at the option of Crop Care Australasia Pty Ltd) the refund of the price paid and is conditional upon a claim being made in writing and where possible sufficient part of the goods to enable proper examination being returned to Crop Care Australasia Pty Ltd within thirty days of delivery.

ORGANOCHLORINE PESTICIDE, LIQUID, TOXIC, (CONTAINS ENDOSULFAN) UN No: 2996	
PG: III	TOXIC 6
HAZCHEM: 2 X	
IN A TRANSPORT EMERGENCY DIAL 000 POLICE OR FIRE BRIGADE	SPECIALIST ADVICE IN EMERGENCY ONLY 1800 033 498 ALL HOURS - AUSTRALIA WIDE



Crop Care Australasia Pty Ltd ACN 061 362 347 Unit 15/16 Metroplex Avenue Murarrie Qld 4172. EAN 13 and EAN 128 barcodes and Item Print Code

APVMA Approval No.: 45838/20L/0705 APVMA Approval No.: 45838/200L/0705 APVMA Approval No.: 45838/1000L/0705

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DIRECTIONS FOR USE

Restraints:

DO NOT use this product unless records of sprays are kept in accordance with specifications found under "record keeping requirements" in the booklet (attached to container) which forms part of this label. Records of sprays are subject to audit by authorised inspectors.

EXCEPT FOR ORCHARD CROPS, all other crops are limited to a maximum of 2 full coverage sprays of endosulfan product per crop per growth season (or equivalent of 2 sprays in active ingredient per hectare) unless irrigation tail water and up to 25 mm of rainfall can be captured on farm.

DO NOT apply if heavy rains or storms that are likely to cause surface runoff from the farm property are forecast with greater than 50% probability within two days of application. If a property has water retention systems capable of containing all irrigation tailwater and at least a further 50mm of rainfall on the property, then endosulfan may be applied even if rain is forecast within two days.

DO NOT apply when irrigating, or to waterlogged soil or while water remains in furrows unless tail water can be captured.

DO NOT irrigate for at least two days after spraying unless tail water can be captured on farm.

BEFORE applying to cotton, users MUST refer to the "CONDITIONS OF USE ON COTTON" section of this booklet.

CROP	PESTS CONTROLLED	STATES	RATE	WHP	CRITICAL COMMENTS
Pre emergent use ONLY: Canola (Oilseed rape), Linseed, Safflower, Sunflower	Redlegged earthmite Blue oat mite	Qld, NSW, Vic, SA & WA only NSW & WA only	0.5 or 1.0L/ha	see Withholding Period Section (p.12-13)	Spray only by ground rig using at least 50 litres of water per hectare. Use the lower rate for broad area spraying of mite-infested paddocks prior to seedling emergence. This rate will give 3 to 5 weeks residual protection. Use the higher rate as a perimeter spray within the fence lines if mites are moving into the paddock from adjacent areas.
Pre emergent use ONLY: Chickpeas, cowpeas, pigeon peas, peas – field, adzuki beans, faba beans, Navy beans, mung beans,	Redlegged earthmite	Qld, NSW, Vic, SA & WA only	0.5 or 1.0L/ha		Spray only by ground rig using at least 50 litres of water per hectare. Use the lower rate for broad area spraying of mite-infested paddocks prior to seedling emergence. This rate will give 3 to 5 weeks residual protection. Use the higher rate as a perimeter spray within the fence lines if mites are moving into the paddock from adjacent areas.
Lupins, Soybeans		only			
Cotton	Cotton bollworm, native budworm, rough bollworm, aphids, thrips, cotton looper, jassids, green vegetable bug, cutworms, cotton tipworm	Qld, NSW, WA & NT only	2.1L/ha		Apply at or just prior to egg hatching of caterpillars, or at first sign of infestation depending upon insect checks. Repeat sprays at intervals of 5 to 10 days, depending on infestation level, rate of growth of cotton and insect checks. Caterpillar larvae larger than 7 to 10mm are not readily controlled. Refer to the Conditions of Use on Cotton (P. 11) prior to use on cotton.
	Web-spinner caterpillar	NSW, WA & NT only.			

FIELD CROPS

VEGETABLES

CROP	PESTS CONTROLLED	STATES	RATE	WHP	CRITICAL COMMENTS
Beetroot	Beetroot webworm, aphids	All States	190mL/ 100L	see Withholding	Apply as thorough spray as required and repeat at 10 to 14 day intervals.
	Leafminer	Tas, SA & WA only	2.1 L/ha	Period Section	
	Heliothis (<i>Helicoverpa</i> spp.), loopers	Qld & WA only	200 mL/ 100 L or 2.1 L/ha	(p.12-13)	Apply as required.
Capsicums, okra, cape gooseberry	Tomato grub, thrips, aphids, Rutherglen bug, jassids, cutworms, tomato russet mite, white flies, looper	All States	190mL/100L or 2.1L/ha		Apply every 10 to 14 days or according to pest incidence. Apply when caterpillars are small (7 to 10mm or less)
	Green vegetable bug	Qld, NSW, Tas, SA & WA only			
Carrots	Aphids, leafhoppers	SA & WA only	190mL/ 100L		Spray thoroughly and repeat as required.
Cucurbits (including chokos, cucumbers, marrows,	Aphids, thrips, jassids, green vegetable bug	All States	-		Apply as a thorough spray every 10 to 14 days, or as required. DO NOT use in confined spaces eg. glasshouses, green houses, igloos or tunnels.
melons.	Cucumber moth, heliothis	Qld & WA only	200 mL/		
pumpkins, squash)	(<i>Helicoverpa</i> spp.) Cucurbit shield bug, fruitspotting bugs, Rutherglen bug	Qld & WA only	100 L 2.1 L/ha		Apply as required. DO NOT use in confined spaces eg. glass houses, green houses, igloos or tunnels.
Egg plant	Tomato grubs, thrips, aphids, Rutherglen bug, jassids, cutworm, tomato russet mite, white flies, loopers Green vegetable bug	All States Qld, NSW, Tas,	190mL/ 100L or 2.1L/ha		Apply every 10 to 14 days or according to pest incidence. Apply when caterpillars are small (7 to 10mm or less). DO NOT use in confined spaces eg. glasshouses, green houses, igloos or
	Egg fruit caterpillar, yellow peach moth Potato moth	SA & WA only Qld & WA only SA & WA only	190mL/ 100L		tunnels.
Potatoes	Thrips, aphids, leaf miner, jassids, potato moth, Rutherglen bug, Green vegetable bug	All States	2.1L/ha		Apply every 10 to 14 days or according to pest incidence commencing at first sign of pests.
Sweet potato	Leaf miner	Qld & WA only	2.1L/ha		Apply every 10 to 14 days or according to pest incidence commencing at first sign of pests.
Taro	Caterpillars (including cluster caterpillars)	Qld & WA only	100 L		Spray thoroughly and repeat as required.
Tomatoes	Tomato grub, thrips, aphids, Rutherglen bug, jassids, white flies, cutworm, tomato russet mite, looper	All States	190mL/ 100L water or 2.1L/ha		Apply every 10 to 14 days or according to pest incidence. Apply when caterpillars are small (7 to 10 mm or less). DO NOT use in confined spaces eg. glasshouses, green houses, igloos or tunnels.
	Green vegetable bug	Qld, NSW, Tas, SA & WA only			

TREE AND VINE CROPS

	RA able, all rates are given for etails on dilute spraying ref section.	CRITICAL COMMENTS For all uses in this table: Apply by dilute or concentrate spraying equipment. Apply the same total amount o product to the target crop whether applying this product by dilute or			
CROP	PESTS CONTROLLED	STATES	RATE (Dilute spraying)	WHP	concentrate spraying methods. Refer to the Special Instructions for Tree and Vine Crops section.
Avocados	Fruit spotting bug, banana spotting bug, yellow peach moth Brown loopers, grey loopers, redbanded thrips, redshouldered leaf beetle (monolepta beetle), swarming leaf beetle	All States Qld & WA only	150mL/ 100L 200 mL/ 100 L water	see Withholding Period Section (p.12-13)	Apply one or two sprays at 2 to 3 week intervals when infestation present. Apply as required.
	Redshouldered leaf	NSW only	150 mL/ 100 L		Ensure thorough coverage of flowers and
Cashews	beetle (monolepta beetle) Fruitspotting bugs	Qld & WA only	200 mL/ 100 L		foliage. Repeat when necessary. Apply as required during December/ January to prevent premature fruit drop.
Citrus including mandarins, lemons, orange, and/or grapefruit	Spined citrus bug	NSW, WA, SA, Vic & Qld only	10 - 30 mL/ 100L		 Spray overwintering clusters of the pest which are usually found on oranges, mandarins and grapefruit adjacent to lemons. Spray in spring if more than 20 adult pests can be found in a 30 minute search and less than 50% of egg batches are parasitised. Spray in December/January if more than 2 adults or 30 nymphs are found in a 30 minute search, and less than 50% of egg batches are parasitised. Spray mandarins in February/March as soon as pests are detected. Continue monitoring for pest presence. Follow-up sprays may be required.
Custard apple	Fruit spotting bug, banana spotting bug, yellow peach moth	All States	150mL/ 100L	-	Apply one or two sprays at 2 to 3 week intervals when infestation present.
	Blue triangle butterfly, loopers	NSW & WA only			Apply cover sprays to foliage and fruit if loopers and caterpillars are found in large numbers in the Spring and Autumn.
	Blue triangle butterfly	Qld only	200 mL/ 100 L]	Spray once in late summer/ autumn. Spray young trees only if serious defoliation occurs.
Guavas, persimmons	Fruit spotting bugs, caterpillars, loopers	NSW & WA only	150mL/ 100L		Apply cover sprays once the damage is detected in the Spring and Autumn. A follow- up spray may be necessary 3 weeks following the initial spray.
	Fruitspotting bugs	Qld only	200 mL/ 100 L		Apply at monthly intervals from time of fruit set, or more frequently in orchards under constant pest pressure.
Kiwifruit	Caterpillars, Rutherglen bug, fruit spotting bugs	NSW & WA only	150mL/ 100L		Apply as high volume spray when pests appear. Apply every 7 to 14 days when pests are present.
	Fruitspotting bugs	Qld only	200 mL/ 100 L		Apply every 2 to 4 weeks during fruiting period depending on orchard location and level of infestation.
Longans	Passionvine hopper Rutherglen bugs, thrips	Qld & WA only Qld & WA only	200 mL/ 100 L		Apply as required. Apply as required. Repeat applications may be necessary.
	Fruitspotting bugs				Apply every 2 to 4 weeks during fruiting period depending on orchard location and
Loquats	Fruitspotting bugs	Qld & WA only	200 mL/ 100 L		level of infestation. Apply every 2 to 4 weeks during fruiting period depending on orchard location and local of infectation
Lychees	Flower eating caterpillar	NSW & WA only	150mL/ 100L		level of infestation. Apply spray when trees are flowering. A repeat spray may be necessary.
	Lychee stink bug, fruitspotting bugs				Apply spray when bug activity is seen on trees. A repeat spray may be necessary one week later.
	Fruitspotting bugs	Qld only	200 mL/ 100 L		Apply from October to harvest whenever bug damaged fruit is found.

TREE AND VINE CROPS cont.

and for further d and Vine Crops		er to the Specia		s for Tree	For all uses in this table: 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
CROP	PESTS CONTROLLED	STATES	RATE (Dilute spraying)	WHP	concentrate spraying methods. Refer to the Special Instructions for Tree and Vine Crops section.
Macadamias	Fruitspotting bugs Banana-spotting bug Flower caterpillar Twig girdler, aphids, macadamia lace bug Green vegetable bug	Qld, NSW & WA only	150mL/ 100L	see Withholding Period Section (p.12-13)	Apply two sprays at 3 weekly intervals when premature nut fall is evident. Apply two or three sprays at 2 week intervals after flowering. Apply two or three sprays in the flowering period. Apply as required. Apply the spray when heavy infestations of the pest occur. Ensure thorough coverage.
	Redshouldered leaf beetle (monolepta beetle) Black citrus aphids Hairyline blue butterfly	Qld & WA only	200 mL/ 100 L 150 mL/ 100 L		Apply to infested trees as required. Ensure thorough coverage of flowers and foliage. Repeat applications may be necessary. Apply as required.
Mammey (Mammey	(hairyline caterpillar) Redbanded thrips	Qld only	200 mL/ 100 L		Apply as required. Repeat applications may be necessary.
apples) Mangoes	Flatid planthoppers (including mango planthopper), flower- eating caterpillars, fruitspotting bugs, large mango tip-borer, small mango tip-borer	NSW only Qld & WA only	150 mL/ 100 L 200 mL/ 100 L		Apply as required to flowers, foliage and fruit during the flowering to early fruiting stage.
	Redshouldered leaf beetle (monolepta beetle) Banana-spotting bug,	NSW & WA only Qld & WA only			Apply as a high volume full cover spray when bugs or fresh damage detected.
Passion fruit	Redbanded thrips Passion vine bugs, Rutherglen bug Green vegetable bug	All States Qld, NSW, Tas, SA & WA only	150mL/ 100L 200mL/ 100L		Apply as required when pests present.
Pawpaw	Fruitspotting bugs Fruit spotting bug, banana spotting bug, yellow peach moth	Qld & WA only All States	150mL/ 100L		Apply when 2% or more fruit show fresh injury Apply one or two sprays at 2 to 3 week intervals when infestation is present.
Pecan nuts	Heliothis <i>(Helicoverpa spp.)</i> , green vegetable bug	Qld, NSW & WA only	2.8L/ha		Apply as required from approximately October to April using 30 to 40 litres of water per hectare by aircraft and approximately 1,400 litres of water per hectare by ground.
Pistachios	Christmas beetles, monolepta beetles, fruit spotting bugs, yellow peach moth Aphids, caterpillars	NSW & WA only Qld, WA only	150mL/ 100L 200 mL/		Apply cover sprays once damage by these pests is detected in the Spring and Summer period. It may be necessary to apply a follow- up spray one week after the first. Apply as required.
Pome fruit	Woolly aphids (apples only), green and black peach aphids, thrips, Rutherglen bug, Heliothis <i>(Helicoverpa</i> spp.) Cherry aphid	All States NSW, Vic, Tas, SA & WA	100 L 190mL/ 100L		Apply as a full cover spray as required.
	Dimple bugs	only Qld, NSW, Vic, SA & WA only			Apply as a full cover spray at early-late pink stage. A second application may be necessary if re-infestation occurs.
	Redshouldered leaf beetle	NSW & WA only	150 mL/ 100 L		Spray when heavy infestations occur on flowers. Repeat when necessary.

TREE AND VINE CROPS cont.

	R/ able, all rates are given for etails on dilute spraying re- section.	CRITICAL COMMENTS For all uses in this table: 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			
CROP	PESTS CONTROLLED	STATES	RATE (Dilute spraying)	WHP	concentrate spraying methods. Refer to the Special Instructions for Tree and Vine Crops section.
Pomegranates	Yellow peach moth	Qld & WA only	200 mL/ 100 L	see Withholding	Apply once when damage is evident on small fruit and again 21 days later if necessary.
Rambutans	Fruitspotting bugs	Qld & WA only	200 mL/ 100 L	Period Section	Apply from October to harvest whenever bug damaged fruit is found.
Sapodillas	Yellow peach moth	Qld & WA only	200 mL/ 100 L	(p.12-13)	Apply and repeat as required.
Tamarillos	Fruitspotting bugs Aphids Caterpillars	Qld & WA only	200 mL/ 100 L	_	After fruit set spray every 14 days. Apply when aphid numbers on leaves and terminals begin to cause honeydew contamination of fruit, and natural enemies are not able to control the infestation. Apply if significant defoliation occurs.

OTHER

CROP	PESTS CONTROLLED	STATES	RATE	WHP	CRITICAL COMMENTS
Native trees, shrubs (direct seeding)	Redlegged earthmite, blue oat mite	NSW & WA only	0.5 or 1.0L/ha	see Withholding Period Section (p.12-13)	Apply as soon as activity is evident on seedlings. Use the lower rate for bare earth treatment. Use at least 50 litres of water per hectare to give good coverage. Use the higher rate for longer residual control or as a barrier spray where mite activity is high on surrounding vegetation. Where mite infestations are severe a perimeter spray of up to 3 metres should be applied around seedlings. Direct seeded areas should be either fenced and/or stock removed to ensure survival of seedlings.
Ornamentals, nursery crops	Thrips, aphids, jassids, cutworm, looper and other caterpillars	All States	190mL/ 100L		Apply as a thorough spray, ensuring wetting of plant, and repeat as necessary. DO NOT use in confined spaces eg. glasshouses, greenhouses, igloos or tunnels.
Tobacco	Heliothis (<i>Helicoverpa</i> spp., native budworm, tobacco budworm), looper caterpillars, thrips, leaf miner, aphids, jassids, green vegetable bug	NSW, Vic, SA & WA only Qld only	125 to 250mL/ 100L 200 to 250mL/ 100L	-	Apply as thorough wetting spray every 7 to 14 days or as required according to pest incidence. Use higher rate under severe pest incidence. Apply approximately 600 litres of spray per hectare to young plants (0.5m) increasing to 1,000 litres per hectare to mature plants (1.5m)

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 TO BE USED IN THE HOME GARDEN.

IN TASMANIA THIS PRODUCT MUST NOT BE APPLIED BY AIRCRAFT WITHOUT THE SPECIFIC APPROVAL OF THE REGISTRAR OF CHEMICAL PRODUCTS.

CONDITIONS OF USE ON COTTON

USE ON COTTON IS LIMITED TO A TOTAL OF 2205 GRAMS OF ACTIVE INGREDIENT PER HECTARE PER GROWTH SEASON (EQUIVALENT TO 3 FULL COVERAGE APPLICATIONS OF 735 GRAMS ACTIVE INGREDIENT PER HECTARE) WHERE IRRIGATION TAILWATER AND UP TO 25mm OF RAINFALL CAN BE CAPTURED ON FARM.

THE TOTAL LIMIT IS REDUCED TO 1470 GRAMS OF ACTIVE INGREDIENT (EQUIVALENT TO 2 SPRAYS) PER HECTARE PER GROWTH SEASON WHERE IRRIGATION TAILWATER AND UP TO 25mm OF RAINFALL CANNOT BE CAPTURED ON FARM.

WHEN USED ON COTTON, THIS PRODUCT MUST BE USED IN ACCORDANCE WITH THE CURRENT AUSTRALIAN COTTON INDUSTRY BEST MANAGEMENT PRACTICES MANUAL AND ITS ASSOCIATED SPRAY AND DRIFT MANAGEMENT PLAN EXCEPT WHEN ADVICE OR REQUIREMENTS FROM COTTON'S BEST MANAGEMENT PRACTICES CONFLICT WITH CONDITIONS OF USE FOUND ON THE LABEL OR IN THE BOOKLET (ATTACHED TO THE CONTAINER) WHICH FORMS PART OF THE LABEL. IN SUCH CASES, LABEL DIRECTIONS MUST BE FOLLOWED.

DO NOT USE ON COTTON UNLESS OCCUPIERS OF NEIGHBOURING PROPERTIES AND OCCUPIERS OF NEIGHBOURING RESIDENCES ARE GIVEN PRIOR NOTICE OF PLANNED TIME, LOCATION, FORMULATION AND METHOD OF APPLICATION. "NEIGHBOURING PROPERTIES AND RESIDENCES" ARE THOSE WITH BOUNDARIES WITHIN 750 METRES FOR AERIAL EC OR 200 METRES FOR GROUND EC APPLICATION OF THE AREA OF COTTON TO BE SPRAYED (REFER TO DIAGRAMS IN THIS BOOKLET WHICH FORMS PART OF THE LABEL). NOTIFICATION MAY BE DONE BY A METHOD AGREED IN WRITING WITH THE NEIGHBOURING OWNER OR OCCUPIER. WITHOUT SUCH A WRITTEN AGREEMENT, NOTIFICATION MUST BE MADE BETWEEN 48 AND 12 HOURS BEFORE SPRAYING IS INTENDED AND MUST FOLLOW OTHER REQUIREMENTS AS SPECIFIED UNDER "HOW TO NOTIFY THE NEIGHBOURS" FOUND IN THE BOOKLET WHICH FORMS PART OF THE LABEL.

DO NOT USE ON COTTON AERIALLY OR BY GROUND EXCEPT WITH A HIGH-VOLUME LARGE-DROPLET-PLACEMENT TECHNIQUE AS SPECIFIED IN THIS BOOKLET (ATTACHED TO THE CONTAINER) WHICH FORMS PART OF THE LABEL.

DO NOT USE ON COTTON BY AERIAL SPRAYING WHERE THERE IS LOCATED WITHIN 750 METRES DOWNWIND FROM THE AREA OF COTTON TO BE SPRAYED ANY PROPERTY BOUNDARY OR ANY RESIDENCE WITHOUT PRIOR WRITTEN CONSENT FROM THE OCCUPIERS OF THAT NEIGHBOURING PROPERTY OR RESIDENCE. THE TIME PERIOD OF CONSENT MUST BE INCLUDED IN THE WRITTEN CONSENT AND MAY BE GRANTED FOR A PART OF BUT NOT LONGER THAN THE WHOLE OF THE CURRENT COTTON SEASON. (SEE "OBTAINING WRITTEN CONSENT TO WAIVE THE DOWNWIND NO-SPRAY ZONE" FOUND IN THIS BOOKLET WHICH FORMS PART OF THE LABEL.)

DO NOT USE ON COTTON BY GROUND SPRAYING WHERE THERE IS LOCATED WITHIN 200 METRES DOWNWIND FROM THE AREA OF COTTON TO BE SPRAYED ANY PROPERTY BOUNDARY OR ANY RESIDENCE WITHOUT PRIOR WRITTEN CONSENT FROM THE OCCUPIERS OF THAT NEIGHBOURING PROPERTY OR RESIDENCE. THE TIME PERIOD OF CONSENT MUST BE INCLUDED IN THE WRITTEN CONSENT AND MAY BE GRANTED FOR A PART OF BUT NOT LONGER THAN THE WHOLE OF THE CURRENT COTTON SEASON (SEE "OBTAINING WRITTEN CONSENT TO WAIVE THE DOWNWIND NO-SPRAY ZONE" FOUND IN THIS BOOKLET WHICH FORMS PART OF THE LABEL.)

DO NOT USE ON COTTON BY AERIAL SPRAYING OUTSIDE THE PERIOD OF 15 NOVEMBER TO 15 JANUARY INCLUSIVE (EXCEPTING ONLY THE SHIRE COUNCIL AREAS OF BOURKE AND WALGETT IN NSW AND BALONNE, BANANA, BAUHINIA, BELYANDO, BROADSOUND, DARLYMPLE, DUARINGA, EMERALD, PEAK DOWNS, RICHMOND AND WAROO IN QLD WHERE THE PERIOD IS 1 NOVEMBER TO 31 DECEMBER INCLUSIVE).

DO NOT USE ON COTTON BY GROUND APPLICATION OUTSIDE THE PERIOD OF 1 OCTOBER TO 15 JANUARY INCLUSIVE.

CONDITIONS	CONDITIONS OF USE ON COTTON CONTINUED							
	Permissible Dates of Application on Cotton							
Application of endosulfan on cotton can only take place during the time windows specified below.								
			are determinec windows must		d used and by	the geograph	ic area where	
Octo	ober	Nove	ember	Dece	mber	Jan	uary	
1st-15th	16th-31st	1st-14th	15th-30th	1st-14th	15th-31st	1st-15th	16th-31st	
		Endosulfa	an EC - Ground a	pplication				
	Endosulfan EC - Aerial application ¹							
	Endosulfan EC - Aerial application ²							

- 1. All cotton growing areas except for the areas listed in (2) below.
- 2. Shire council areas Bourke and Walgett in NSW, and Balonne, Banana, Bauhinia, Belyando, Broadsound, Darlymple, Duaringa, Emerald, Peak Downs, Richmond and Waroo In QLD.

DO NOT USE BY AERIAL SPRAYING ON COTTON LESS THAN 20 CENTIMETRES IN HEIGHT.

WITHHOLDING PERIOD

Native trees, nursery crops, ornamentals, shrubs, tobacco - WITHHOLDING PERIOD NOT REQUIRED WHEN USED AS DIRECTED.

Citrus fruit: **DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION** Loquats, Pome fruit: **DO NOT HARVEST FOR 28 DAYS AFTER APPLICATION** Avocado, Kiwifruit, Mammey, Passionfruit, Pomegranate, Sapodilla: **DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION** Custard Apple, Guava, Lychees, Longans, Mango, Pawpaw, Persimmon, Rambutan, Tamarillo: **DO NOT**

Custard Apple, Guava, Lychees, Longans, Mango, Pawpaw, Persimmon, Rambutan, Tamarillo: **DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION**

Cucurbits: DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION Capsicum, Tomatoes: DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION Cape gooseberry, Eggplant, Okra: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION Beetroot, Carrot, Potato, Sweet Potato, Taro: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION. Cashews, Pecans, Pistachios: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION Macadamias: DO NOT HARVEST FOR 2 DAYS AFTER APPLICATION

Pulse crops (Adzuki beans, Chickpeas, Cowpeas, Faba beans, Field peas, Lupins, Mung beans, Navy beans, Pigeon peas): HARVEST: NIL; GRAZING: DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 7 WEEKS AFTER APPLICATION

Oilseeds: Canola (Rapeseed), Linseed, Soya beans, Safflower, Sunflowers): HARVEST: NIL; GRAZING: DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 8 WEEKS AFTER APPLICATION

Cotton: DO NOT HARVEST FOR 8 WEEKS AFTER APPLICATION

This product must not be used on cotton where cotton trash, fodder or stubble (excluding seed and hulls) will or may be fed to livestock.

DO NOT Feed Cotton Fodder, Stubble or Trash to Livestock

DO NOT Feed Vegetable Wastes or Wrapper Leaves of Treated Vegetable Crops to Livestock DO NOT Feed Treated Melons or Melons Crops to Livestock

DO NOT Feed Treated Tomato Crops to Livestock

Export Trade Advice - Livestock

Consumption by livestock of any materials previously treated with this product, may produce residues in the animal that might not be acceptable in some export markets. The label withholding periods for grazing only apply to stock slaughtered for the domestic market. Some export markets apply different standards. To meet these standards, ensure that the Export Slaughter Interval (ESI) is observed before stock are sold or slaughtered.

Export Slaughter Interval (ESI) - 21 days

Livestock that have been grazing on or fed treated crops (except for label exclusions cotton, melons, tomato, vegetable wastes/wrapper leaves) should be placed on clean feed for 21 days prior to export slaughter.

DO NOT GRAZE ORCHARDS AFTER APPLICATION

GENERAL INSTRUCTIONS

INSECTICIDE RESISTANCE WARNING GROUP 2 A INSECTICIDE

For insecticide resistance management Endosan EC Insecticideis a Group 2A insecticide.

Some naturally occurring insect biotypes resistant to Endosan EC and other Group 2A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Endosan EC or other Group 2A insecticides are used repeatedly. The effectiveness of Endosan EC on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Crop Care Australasia Pty Ltd accepts no liability for any losses that may result from the failure of Endosan EC to control resistant insects.

Endosan EC Insecticide may be subject to specific resistance management strategies. For further information contact your local supplier, Crop Care representative or local agricultural department agronomist.

Note - Resistance

* Helicoverpa armigera resistance Northern NSW and QLD. To help contain pyrethroid resistance in Helicoverpa armigera, the Summer Crop Insecticide Strategy as developed by the Avcare Insecticide Resistance Action Committee, Qld. Department of Primary Industries and the NSW Department of Agriculture and Fisheries should be adhered to. Failure to observe the strategy may result in widespread resistance affecting the future viability of Summer cropping. In some areas cotton bollworm *H. armigera* may have developed tolerance to endosulfan and in these areas this product may not give satisfactory control. Consult your local Crop Care Australasia representative, the Department of Agriculture or Department of Primary Industries for local information. However, apparent tolerance should not be confused with poor application.

Mixing

Add the required amount of product to the spray vat under agitation.

Compatibility

'Endosan' may be mixed in the spray vat with any of the following products: Crop Care Amitraz EC Insecticide, Bullet Miticide, Dithane M-45, Saboteur, Lannate L, *Bacillus thuringiensis*, Folimat and Zinc Sulphate.

RECORD KEEPING REQUIREMENTS Required for all endosulfan uses on all crops

All growers using endosulfan are required to keep a record of each application. It is the responsibility of the grower to collect (either directly or from a person acting on his or her behalf) and record all of the information required in the endosulfan spray record which must contain at least the information set out below. (For convenience, an endosulfan record-keeping form can be obtained from retailers of endosulfan or from the Australian Pesticides and Veterinary Medicines Authority).

General:

aonoran		
Name and address of farm owner (or grower if grower is not owner)	Name and address of person who applied endosulfan	Date and time of application
Number of endosulfan sprays applied to field so far this season (including contribution from band sprays)	Map of farm with treated field or paddock outlined on map and field number or name indicated	Area of field or paddock sprayed with endosulfan
Level of user's training (license, certification, etc.)	Whether neighbours have been notified	When and how neighbours were notified

For Cotton Growers Only:

A sketch of the	Whether or not the
downwind no-spray	downwind neighbour
zone drawn onto	has consented to
the map	waive the downwind
	no-spray zone
Whether farm is	Whether farm has
registered with the	a cotton industry
cotton industry as	Spray and Drift
using Best	Management Plan
Management	in place
Practices	

Crop and Pest Details:

Name of crop	Stage of crop growth (height) or age if tree or perennial crop	Health of crop (whether stressed and type of stress)
Major types of pests present	Pest numbers for each type	Pest stage of growth
Length of time since last irrigation	Whether standing water was in furrows at time of application	

Weather Conditions at Application site:

Whether (at	Whether and how	Conditions at time of
beginning of	much rain fell in	application (showers,
application) rain was	previous 24 hours	overcast, partly
officially forecast for		cloudy, clear sky,
the next 48 hours		inversion conditions)
Temperature and	Wind speed and	Wind consistency
humidity at time of	direction at	(gusty/steady
application	beginning of	breeze, direction
	application	steady/variable)
Whether wind	Whether wind speed	Whether smoke
direction changed	changed during	wind direction
during application	application and to	indicators were used
and to where	what	

Application Details:

Method of Application (by aircraft or by ground equipment)	Equipment and type of nozzles used	Speed of aircraft or ground application equipment
Sprayer pressure used	Formulation used (EC)	Name of endosulfan product used or unique APVMA approval number
Amount active ingredient applied per hectare	Total volume of spray mixture applied per hectare	Total amount of active ingredient used in spray operation
Any additives used in mixture and rate of use	Whether closed mixing and loading equipment was used	Operator protection used (type of protective clothing, enclosed cab)
For aerial applications – was GPS equipment used	For aerial applications – what was the length of the boom as percentage of wingspan	Ű
Time at beginning of application	Time at end of application	

Description of any problems with the application caused by equipment.

Description of any problems with the application caused by weather.

A statement saying the information on this record is accurate and correct followed by the signature of the grower.

APPLICATION

Endosan EC is a contact spray. Thorough, even coverage is essential.

Ground Spray

Standard low volume boom or high volume equipment may be used.

Aircraft

Apply using water as a carrier. Endosan EC should not be applied by aircraft in Tasmania without the specific approval of the Registrar of Chemical Products.

Special Instructions for tree and vine crops

Dilute spraying

- Use a sprayer designed to apply high spray volumes up to the point of run-off and matched to the crop being sprayed.
- Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient water to cover the crop to the point of run-off. Avoid excessive run-off.
- The required spray volume may be determined by applying different test volumes, using different settings on the sprayer, or from industry guidelines or expert advice.
- Add the amount of product specified in the 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 spray volumes less than those required to reach the point of run-off) and matched to the crop being sprayed.
- Set up and operate the sprayer to achieve even coverage throughout the crop canopy using your chosen spray volume.
- Determine an appropriate dilute spray volume (See *Dilute Spraying* above) for the crop canopy. This is needed to calculate the concentrate mixing rate.
- The mixing rate for concentrate spraying can then be calculated in the following way:

EXAMPLE ONLY

- 1. Dilute spray volume as determined above: For example 1500 L/ha
- 2. Your chosen concentrate spray volume: For example 500 L/ha
- 3. The concentration factor in this example is: 3 X (i.e. 1500 L ÷ 500 L = 3)
- If the dilute label rate is 10 mL/100 L, then the concentrate rate becomes 3 x 10, that is 30 mL/ 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.

HIGH VOLUME LARGE-DROPLET-PLACEMENT TECHNIQUE SPECIFICATIONS FOR EC FORMULATIONS.

Meteorology

Mandatory

Immediately before beginning a spray application, the operator (or a person acting on his or her behalf) must measure and record wind speed, wind direction, ambient air temperature and relative humidity (wetbulb temperature depression) at the application site.

DO NOT apply endosulfan when surface temperature inversion conditions exist at the application site.

Advisory

Endosulfan should not be applied during unstable atmospheric conditions characterised by high temperatures, strong convective activity and variable horizontal wind velocities.

Endosulfan should be applied when the local mean wind speed is between 4 and 20 km/hr as measured 2 metres above the ground.

Spraying should not take place when the wet-bulb depression (a measure of evaporation potential) is greater than 10°C.

Aerial Equipment and Application

Mandatory

DO NOT apply endosulfan EC formulations unless a volume of carrier water greater than 30 L/ha is used. Use higher volumes of water (40 to 50 L/ha) when ambient air temperatures at the application site exceed 30°C.

DO NOT apply endosulfan with booms where the distance between the two outermost nozzles is greater in length than 65% of the wingspan.

DO NOT apply endosulfan EC formulations unless the droplet volume median diameter (VMD) of the spray is greater than 250µm. The nozzle system and airspeed combinations specified in the following table can be used to satisfy this requirement.

Note: For the following table ✔ means "Ok to use"

NB: All nozzles must be directed backward and aimed parallel with the airstream.

Nozzle Type	Airspeed	Airspeed
	90 - 115 knots	116-135 knots
CP <u>Standard</u> 30° deflector	Boom Pressure greater than 30psi required	DO NOT USE
CP <u>Straight Stream</u> 30° deflector	~	DO NOT USE
CP <u>Straight Stream</u> 5° deflector	v	DO NOT USE
CP <u>Straight Stream</u> 0° deflector	~	Boom Pressure greater than 30psi required
<u>Flat Fan</u> Min. Specification: Fan angle 65° or less Orifice size 10 or greater	~	v

Advisory

Aircraft used for endosulfan EC application should be pattern tested to ensure that even coverage and low coefficients of variation are achieved at optimum flight lane separations.

The spray system should not be operated if the wheel height is greater than 3 metres above the crop height.

Booms should be fixed at a vertical displacement of 25 to 30 cm below the trailing edge of the aircraft wing.

Ground-Based Equipment and Application

Mandatory

DO NOT apply endosulfan EC formulations unless a volume of carrier water greater than 50 L/ha is used. For band spraying applications, use at least 50L/ha of carrier water for the actual area sprayed in the bands.

Use only flat fan nozzles with all ground-based boom sprayer equipment.

All nozzles must be operated such that a "medium" spray quality is produced as indicated by manufacturers according to the BCPC and ASAE nozzle classification system.

DO NOT use additional adjuvants in the spray mix unless approved (on label) by the pesticide manufacturer.

DO NOT use ducted air or sleeve sprayers unless the air velocity is adjusted to ensure that there is no reflection of air from the ground surface.

Advisory

Release height of the spray should be as low as possible, consistent with nozzle specifications and coverage requirements.

Booms sprayers should be rigged to ensure that vertical boom movement does not exceed 0.5 metres at normal operating speeds.

Crop checking (Cotton)

Frequent and thorough checking of whole plants, flower or fruiting body as required, should be made over a random sample of plants representative of the whole crop area. Inspect crops after spraying to ensure a thorough kill of larvae has been obtained. Then check at frequent intervals, not more than 2 days apart when insect pressure is heavy. Apply the recommended treatment as soon as a crop check indicates spraying is necessary. Acceptable 'threshold' values for eggs, larval, nymphal or adult numbers may vary according to the stage of crop development, the pest complex present and the pest management programme undertaken. Alternative higher thresholds may be acceptable under certain circumstances.

PRECAUTIONS

For aerial application, support workers/markers should be protected by enclosed cabs.

RE-ENTRY PERIODS

Re-entry to treated areas is permitted once the spray has dried.

PROTECTION OF LIVESTOCK

Dangerous to bees. DO NOT spray any plants in flower while bees are foraging.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Extremely dangerous to fish. DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

DO NOT apply under weather conditions or from spraying equipment that could be expected to cause spray to drift onto wetlands, natural surface waters, neighbouring properties or other sensitive areas.

STORAGE AND DISPOSAL (20 & 200L only)

Store in the closed, original container in a cool, 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 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 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 500 mm 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.

STORAGE AND DISPOSAL (1000L only)

DO NOT store or handle near heat or naked flame. Store in the closed, original container in a cool, wellventilated area. Do not store for prolonged periods in direct sunlight. Store this tightly closed minibulk container in a safe and secure place away from children, animals, food and feedstuffs. Storage must be secure so that contents cannot be tampered with. All locks and/or seals must be in order. If locks or seals are broken prior to initial use then the integrity of this product cannot be assured. If this occurs Crop Care Australasia Pty Ltd should be advised immediately. Date: 13.09.05 Page 16 of 19

This minibulk container is reusable and remains the property of Crop Care Australasia Pty Ltd. DO NOT rinse empty container. No other liquid, solid or pesticide product should be put into it. When empty return to Crop Care Australasia Pty Ltd for cleaning, relabelling and refilling.

SAFETY DIRECTIONS

Very dangerous particularly the concentrate product. Undiluted product poisonous if absorbed by skin contact, inhaled or swallowed. Will damage the eyes. Will irritate the nose, throat and skin. Avoid contact with eyes and skin. DO NOT inhale vapour. If clothing becomes contaminated with product or wet with spray remove clothing immediately. If product on skin immediately wash area with soap and water. If product in eyes, wash it out immediately with water. When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrist [or equivalent clothing], elbow-length PVC gloves, and fullfacepiece (or half facepiece respirator and goggles). When using the prepared spray, wear cotton overalls buttoned to the neck and wrist [or equivalent clothing]. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, respirator (and if rubber wash with detergent and warm water), goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

MATERIAL SAFETY DATA SHEET

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

Conditions of sale

Crop Care Australasia Pty Ltd will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply or use of these goods other than responsibility for the merchantable quality of the goods and such responsibilities imposed by Statutes applicable to the sale or supply of these goods. To the extent allowed by such Statutes the liability of Crop Care Australasia Pty Ltd is limited to the replacement of the goods or (at the option of Crop Care Australasia Pty Ltd) the refund of the price paid and is conditional upon a claim being made in writing and where possible sufficient part of the goods to enable proper examination being returned to Crop Care Australasia Pty Ltd within thirty days of delivery.

In a Transport Emergency Dial 000 Police or Fire Brigade
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Crop Care Australasia Pty Ltd ACN 061 362 347 Unit 15/16 Metroplex Avenue Murarrie Qld 4172.

APVMA Approval No.: 45838/0705

DEFINITIONS APPLYING WITHIN THIS LABEL For Endosulfan Use on Cotton Downwind

The direction toward which the wind is blowing during the time that an endosulfan spray application is carried out.

Occupier

In relation to land, means the person in actual occupation of the land or, if there is no person in actual occupation, the person entitled to possession of the land. In relation to residence, means a responsible person in actual occupation of the residence.

Neighbour

A neighbour is the occupier of a neighbouring property or residence the boundaries or walls of which are within 750 metres for aerial EC or 200 metres for ground EC application of the area of cotton to be sprayed with endosulfan.

Area Of Cotton To Be Sprayed

A cotton field or portion of a cotton field intended to be sprayed. The intention to spray the area is necessarily made before the wind direction is known at the actual time of spraying. The possible location of a "downwind no-spray zone" (see definition below) which may come into effect at the time of spraying does not influence the dimensions of the area of cotton originally planned to be treated with endosulfan.

Neighbour Notification Zone

A zone extending in all directions from the edges of the cotton field or portion of a cotton field intended to be sprayed. (See Diagram A under "DIAGRAMS" following this section.) Its width is determined by the endosulfan formulation (EC) and by the application method (by air or by ground). The widths are 750 metres for EC applied by aircraft and 200 metres for EC applied by ground equipment. Property boundaries or residences falling within that zone make it necessary for the grower to notify the occupiers of those properties and residences according to methods specified under "HOW TO NOTIFY THE NEIGHBOURS".

Note that because the wind direction cannot be known prior to the time of spraying, the possible location of a "downwind no-spray zone" (see definition below) does not influence the area of cotton originally planned to be treated with endosulfan and does not relieve the cotton grower of the obligation to notify neighbours who might be anticipated to be downwind.

Downwind No-Spray Zone

A zone of higher risk for spray drift effects where spraying cannot take place unless written consent to waive the zone is obtained from the downwind neighbour as specified under "OBTAINING WRITTEN CONSENT TO WAIVE THE DOWNWIND NO-SPRAY ZONE". Its width is determined by the endosulfan formulation (EC) and by the application method (by air or by ground). The widths are 750 metres for EC applied by aircraft and 200 metres for EC applied by ground equipment. The no-spray zone begins at the nearest downwind property boundary or residence and, depending upon the distance between the property boundary or residence and the cotton field, extends toward or into the cotton field to be sprayed.

DIAGRAMS & EXPLANATIONS RELATED TO DIAGRAMS

For Endosulfan Use on Cotton

The width of both the **neighbour notification zone** and the **downwind no-spray zone** is determined by the endosulfan formulation (EC) and by the application method (by air or by ground).

- For both types of zone, the widths are:
- 750 metres for EC applied by aircraft
- 200 metres for EC applied by ground equipment

Legend Field planted to cotton



Neighbour notification zone around field

Crop area allowed to be sprayed without consent

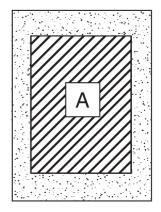
Downwind no-spray zone unless written consent is obtained



Neighbour Notification Zone

The neighbour notification zone extends in all directions around the area of cotton to be sprayed and requires the cotton grower to notify all neighbours falling within that zone before spraying.

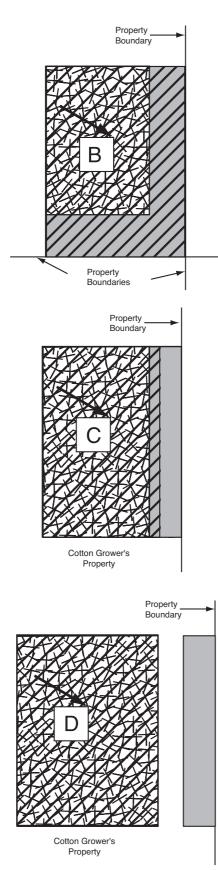
(See definition in previous section under "DEFINITIONS APPLYING WITHIN THIS LABEL".)



Down-wind No-Spray Zone

The downwind no-spray zone is a zone of higher risk for spray drift effects where spraying cannot take place without written consent from the downwind neighbour. (See definition in previous section under "DEFINITIONS APPLYING WITHIN THIS LABEL".)

See below for examples of several different situations.



EXPLANATIONS RELATED TO DIAGRAMS For Endosulfan Use on Cotton Diagram A

Shows the neighbour notification zone extending in all directions around a cotton field. If no property lines or residences fall within that zone, then no neighbours need to be notified. For example, if the grower chose to apply endosulfan by ground, then the zone would extend only 200 metres in all directions and may not reach to neighbouring properties or residences.

Alternatively, if the grower chose to apply EC endosulfan by air, the zone would extend 750 metres in all directions and might include neighbouring properties or residences and therefore require the grower to notify those neighbours

Diagram B

Shows a cotton field bordered on two sides by property lines. In this case the wind is blowing toward both property lines which requires the endosulfan user to observe a no-spray zone for both downwind portions of the field. Since the property lines adjoin the field, the full width of the no-spray zone extends into the field.

Diagram C

Shows a cotton field with only one property line nearby but not adjoining the field. The wind is blowing toward the property line, but since there is a gap between the property line and the edge of the field, only a portion of the no-spray zone extends into the field, and therefore only that portion of the field must not be sprayed unless consent to waive the no-spray zone is obtained from that neighbour. The rest of the no-spray zone is taken up by the gap which is located on the cotton grower's property. **Diagram D**

Shows a cotton field with a downwind property line which is so far removed that it exceeds the width of the no spray-zone (as illustrated). Therefore, all of the downwind no-spray zone, which begins at the neighbour's property boundary, falls within the gap on the cotton grower's property. No portion of it extends into the cotton field allowing the entire field to be sprayed without a neighbour's consent.

It is important to remember that the width of the no-spray zone depends upon the application method and the formulation. The situation shown in diagram D might be the case for a ground application of EC (200 metre wide zone), but for the same field, it might be as shown in diagram C for an aerial application of EC (750 metre wide zone). The width of the downwind no-spray zone which is chosen and the width of the gap between the field edge and the downwind property line will determine which situation applies.

HOW TO NOTIFY THE NEIGHBOURS For Endosulfan Use on Cotton

Notification of neighbours may be done by a method agreed in writing between the cotton grower and the neighbour. The agreement must be signed by both parties and may be made before or during the endosulfan spray period for that cotton season. If such a written agreement is not achieved with a particular neighbour, then the cotton grower (or a person acting on the grower's behalf) must notify that neighbour between 48 hours and 12 hours before application of endosulfan is intended. Specifications for giving

notification are set out in sections 1 through 5 below,

- The notice must include the following information: <u>(For convenience, a standard APVMA Endosulfan</u> <u>Neighbour Notification Form containing the following</u> <u>elements can be obtained from retail sellers of</u> <u>endosulfan or from the APVMA.</u>)
- (i) the name, address and telephone number of the cotton grower;
- (ii) the name of the neighbour being notified;
- (iii) the date and estimated time of the planned application;
- (iv) the location, size and outline of the area of cotton to be sprayed shown on a map which must also show the full extent to which the neighbour notification zone extends onto the neighbour's property or residence;
- (v) the formulation of endosulfan to be used in the planned treatment (EC) and
- (vi) the method of application (by aircraft or by ground equipment).
- Notice must be given in writing in at least one of the following forms:
- by personally delivering the notice to the neighbour by hand;
- (ii) by electronic mail ("e-mail");
- (iii) by facsimile transmission or
- (iv) by sending the notice via Express Post. Note that if this method is used, the cotton grower must sufficiently anticipate the time of spraying in order to have the letter delivered within the period of 48 hours to 12 hours before spraying. (See section 3 below for the time of Express Post delivery.)
- 3. A person will be taken to have been notified as follows:
- if delivered by hand, upon delivery;
- if sent by e-mail, upon receipt by the sender of an acknowledgment that the communication has been properly transmitted to the recipient;
- if sent by facsimile transmission, upon receipt by the sender of an acknowledgment that the communication has been properly transmitted to the recipient; and
- if sent by Express Post, at 5.00 pm on the second business day after the date on which it was sent.
- 4. Retain some form of proof that each neighbour has been notified. For example, the printed verification of e-mail or facsimile transmission or a photocopy of the notification with the Express Mail routing sticker attached will serve as proof. If you are delivering the notice by hand, you may prefer to take 2 copies of the notice and ask your neighbour to sign one copy as a written acknowledgment that he/she has received a copy of the notice. If the neighbour refuses to acknowledge receipt in writing, then make a note of this fact, including the date and time that you personally delivered the notice.
- 5. If a planned endosulfan application is cancelled or postponed due to weather or other factors, each neighbour must be informed of that fact in the notification for the next planned application.

OBTAINING WRITTEN CONSENT TO WAIVE THE DOWNWIND N0-SPRAY ZONE

For Endosulfan Use on Cotton

The downwind no-spray zone must be observed unless written consent to waive it has been obtained by the cotton grower from the appropriate neighbour (see "DIAGRAMS" and "DEFINITIONS APPLYING WITHIN THIS LABEL"). Written consent must contain the following information:

- (i) the name and address of the cotton grower;
- (ii) the name and address of the neighbour;
- (iii) the period of time (beginning date and ending date including the year) for which consent to waive the downwind no-spray zone is granted by the neighbour (Note:- the period cannot be longer than the current cotton season which here means the upcoming or current endosulfan spray season);
- (iv) the words "This document is not a contract. This consent may be withdrawn at any time by giving a written notice of withdrawal of consent to the cotton grower named above. Consent to waive the downwind no-spray zone will be deemed cancelled 24 hours after such written notice is delivered. Written notice may be sent by mail and will be taken to be delivered at 5.00 pm on the second business day after the date on which it was sent if sent by Express Post and at 5.00 pm on the fifth business day after it was sent if sent by "ordinary mail", and
- (v) the signature of the neighbour and the date signed.