

Product Name: Albaugh Solve Ester 570 EC Herbicide
APVMA Approval No: 93920/140905



Label Name:	Albaugh Solve Ester 570 EC Herbicide
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Signal Headings:	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
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Constituent Statements:	ACTIVE CONSTITUENT: 570 g/L MCPA, present as the 2-ETHYLHEXYL ESTER
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Mode of Action:	GROUP 4 HERBICIDE
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Statement of Claims:	For selective control of certain weeds in agricultural crops as listed in the Directions for Use.
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Net Contents:	5 - 1000 L
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Restraints:	<p>DO NOT apply this product by air in tank mixtures with diuron.</p> <p>SPRAY DRIFT RESTRAINTS Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift</p> <p>DO NOT allow bystanders to come into contact with the spray cloud.</p> <p>DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.</p> <p>DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.</p> <p>DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.</p>
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Directions for Use:	This section contains file attachment.
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Other Limitations:	
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Withholding Periods:	HARVEST: NOT REQUIRED WHEN USED AS DIRECTED. GRAZING: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION.
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Trade Advice:	
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General Instructions:	<p>Before opening, carefully read Directions for Use, Safety Directions and First Aid Instructions. Weeds should be sprayed while actively growing and at their most susceptible stage. As a general guide, annuals should be sprayed when young and perennials just prior to appearance of bud stage. Extremes of cold or drought are unfavourable. The best conditions are when soil is moist, weather fine and rain unlikely within 6 hours following application. DO NOT spray weeds outside the stages indicated in "Critical Comments" as damage, loss of yield or inadequate weed control may result. DO NOT spray in high winds.</p> <p>APPLICATION/MIXING INFORMATION This product mixes readily with water. Half fill the spray tank with clean water and add the required amount of product. Agitate thoroughly before adding remainder of water. BOOM SPRAYING - Use 30-120 L/ha of water. AERIAL SPRAYING - Use 10-90 L/ha of water.</p> <p>EQUIPMENT MAINTENANCE AND USAGE Equipment that has been used for this chemical should not be used for the application of other materials to sensitive plants unless it has been well washed out with Spraymate Tank & Equipment Cleaner followed by several clear water rinses.</p> <p>COMPATIBILITY / TANK MIXES This product can be mixed with MCPA-ethyl hexyl ester 570 EC Herbicide, Dicamba, Bromaxynil-N-octanoyl ester 200 plus MCPA-ethyl hexyl ester 200 EC Herbicide, Flowable Diuron, Flowable Terbutryn, Chlorsulfuron 750 WG Herbicide, Glyphosate, Tralkoxydim 100 EC Herbicide, Diclofop-Methyl 375 Selective Herbicide, Triasulfuron 750 WG Herbicide, Diflufenican 25 plus MCPA-ethyl hexyl ester 250 EC Herbicide, Clopyralid 300 Herbicide, 2,2-DPA 740 Herbicide, Fenoxaprop-ethy 50 AC Herbicide. When tank mixing, add the required amount of compatible product when the spray tank is nearly full and while continuously agitating. If left overnight, agitate thoroughly before spraying. When mixing with Diclofop-Methyl 375 EC Selective Herbicide add an approved Wetter 1000 surfactant and do not exceed 700 mL of Albaugh Solve Ester 570 EC Herbicide per hectare. For consistent results, use a minimum of 80 L water per ha by ground and 30L by air, and if wild oats are present, use 2 L Diclofop-Methyl 375 EC Selective Herbicide per hectare.</p>
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Resistance Warning:	Albaugh Solve Ester 570 EC Herbicide is a member of the Phenoxys group of herbicides. Albaugh Solve Ester 570 EC Herbicide has the Disrupters of plant cell growth mode of action. For weed resistance management Albaugh Solve Ester 570 EC Herbicide is a Group 4 herbicide. Some naturally-occurring weed biotypes resistant to Albaugh Solve Ester 570 EC Herbicide and other Group 4 herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly.
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These resistant weeds will not be controlled by Albaugh Solve Ester 570 EC Herbicide or other Group 4 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Albaugh Asia Pacific Limited accepts no liability for any losses that may result from the failure of Albaugh Solve Ester 570 EC Herbicide to control resistant weeds.

Precautions:

Protections:

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 spray drift and vapour movement onto susceptible crops such as cotton, vines, tomatoes, vegetables, fruit trees, lucerne, legume crops and pastures, oilseed crops or other susceptible crops or trees (eg. kurrajongs, belahs, eucalypts).

Legume Tolerance: The tolerance of pasture legumes to this product can vary with species, variety, growing conditions, stage of growth and companion crop cover. While MCPA is preferable to 2,4-D in most situations, this product will cause greater damage than MCPA amine formulations. Lucerne and medics should not be sprayed under any circumstances with this product as severe damage will result.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT
DO NOT contaminate streams, rivers or watercourses with the chemical or used container.

Storage and Disposal:

Store in the closed, original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight. Triple-rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemical on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. Do not burn empty containers or product.

Refillable containers (1000L only):

Store in the closed, original container in a cool well ventilated area. DO NOT store for prolonged periods in direct sunlight. Empty contents fully into application equipment. Close all valves and return to point of sale for refill or storage.

Envirodrum 110L Mini Bulk Returnable Container:

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

Safety Directions:

Harmful if swallowed. Attacks eyes. Will irritate the skin. When preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. If product in eyes, wash it out immediately with water. 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, goggles and contaminated clothing.

First Aid Instructions:	If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone Australia 13 11 26, New Zealand 0800 764 766.
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First Aid Warnings:	
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DIRECTIONS FOR USE

Situation & Crop	Weeds	Rate/ha	Critical Comments
Wheat (Up to early flag leaf (Z37) only)	Refer to weed table	440mL – 1.84L	Use the lower rate (440mL/ha) when crop is at 3-5 leaf stage (Z13-Z15). Apply higher rates from 5 leaf stage through to flag leaf just visible (Z15-Z37). Kulin: Use only from Z15-Z37 (WA only).
Oats, Barley, Triticale and Cereal Rye (Up to early flag leaf (Z37) only)	Refer to weed table	440mL – 1.84L	Use the lower rate (440mL/ha) when crop is at 3-5 leaf stage (Z13-Z15). Apply higher rates from 5 leaf stage through to flag leaf just visible (Z15-Z37). Barley: Use only from 5 leaf stage to flag leaf just visible (Z15-Z37).
Grass Pastures and Grass Seed Crops	Refer to weed table	440mL – 1.84L	Apply to established grass-based pastures. Damage may occur to Legumes if present. See Legume Tolerance under Protection of Crops. NOTE: Capeweed, Paterson’s Curse (Salvation Jane) and Variegated Thistle may be poisonous to stock after spraying.
CEREALS Wheat, Barley, Oats, Triticale, Cereal Rye	Wild radish Stage of weed growth.	Albaugh Solve Ester 570 EC Herbicide 175mL plus Tuken Extra Herbicide 350mL.	*Reduced efficacy (suppression only) may be achieved on wild radish larger than 8 leaf or greater than 180mm in diameter.
	Up to the 4-leaf stage and not more than 120mm in diameter		DO NOT use this tank-mix if cereals are undersown with lucerne or annual medics. Crop Stage Albaugh Solve Ester 570 EC Herbicide 175mL + Tuken Extra Herbicide 350mL: Apply from 3 leaf to fully tillered (Z13-30).
	Up to the 6-leaf stage and not more than 150mm in diameter.	Albaugh Solve Ester 570 EC Herbicide 175mL plus Tuke Extra Herbicide	Albaugh Solve Ester 570 EC Herbicide 175mL + Tuken Extra Herbicide 500mL. Apply from 3 leaf to fully tillered (Z13-30).
	Up to the 8-leaf stage and not more than 180mm in diameter*	Albaugh Solve Ester 570 EC Herbicide 350mL plus Tuken Extra Herbicide 500mL.	Albaugh Solve Ester 570 EC Herbicide 350mL + Tuken Extra Herbicide 500mL: Apply from 5 leaf to stage fully tillered (Z16-30). Optimum results are achieved when sprayed at 3-5 leaf crop stage (generally 4-8 weeks post-sowing). WA only: DO NOT apply to Barley or Kulin Wheat before the 5-leaf stage (Z15). Warning: Tuken Extra Herbicide may cause transient crop yellowing of cereals. Some varieties of oats have not been tested. (Refer to “Crop Tolerance” section of General Instructions on the Tuken Extra Herbicide label).

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

WEED TABLE: Specific Weed Control Recommendations.

Where weeds are to be sprayed in a crop or pasture, use only the rates given for the particular crop or situation indicated under the Directions of Use table.

In most cases this will give control, however some hard to kill weeds or those in advanced stages of growth may only be suppressed. The rates listed in the weeds table below are for use where weeds only are present, and crop or pasture is not involved.

Use at these rates in a crop or pasture other than for spot spraying may cause damage.

Weeds	Rate/ha	Critical Comments
Bathurst Burr (<i>Xanthium spinosum</i>)	1.4 L	Moderately susceptible. Spray young seedlings.
Capeweed (<i>Arctotheca calendula</i>)	1.49 L	Apply up to 2-4 leaf stage only when plants are no larger than 5cm in diameter.
Charlock (<i>Sinapis arvensis</i>)	400 mL - 1.4 L	Young rosettes very susceptible.
Dandelion (<i>Taraxacum officinale</i>)	1.4 L	Apply in early rosette stage.
Fat Hen (<i>Chenopodium album</i>)	880 mL - 1.4 L	Tolerance increases with age. Use lower rate only on seedlings.
Fumitory (<i>Fumaria</i>)	965 mL	Moderately susceptible. Spray up to first true leaf stage. (Not Tas).
Hedge Mustards (<i>Sisymbrium</i> spp)	490 – 880 mL	Apply at rosette stage.
Lincoln Weed (<i>Diploaxis tenuifolia</i>)	615 mL	Apply up to rosette stage only.
London Rocket (<i>Sisymbrium irio</i>)	965 mL	Spray at young stage.
Noogoora Burr (<i>Xanthium occidentale</i>)	1.4 L	Tolerance increases with age. Spray young seedlings only.
Paterson's Curse (<i>Echium plantagineum</i>)	1.49 L	Apply at 2 to 4 leaf stage only.
Saffron Thistle (<i>Carthamus lanatus</i>)	965 mL - 1.66 L	Spray young rosettes before leaves become spiny.
Scotch (Cotton) Thistle (<i>Onopordum acanthium</i>)	615 mL - 1.49 L	Spray young rosettes.
Skeleton Weed (<i>Chondrilla juncea</i>)	965 mL - 1.4 L	Moderately susceptible. Spray rosettes before aerial growth commences.
Slender Thistle (<i>Carduus tenuiflorus</i>)	1.84 L	Moderately susceptible. Spray young rosettes.
Spear Thistle (<i>Cirsium vulgare</i>)	1.31 - 1.84 L	Moderately susceptible. Spray young rosettes.
Stinkwort (<i>Dittrichia graveolens</i>)	1.4 L	Spray very young before plants 15cm high.
Turnip Weed (<i>Rapistrum rugosum</i>)	615 – 965 mL	Apply up to rosette stage. Apply lower rates to seedlings.
Volunteer Canola (<i>Brassica napus</i>)	1.31 L	Apply to seedlings only.
Variegated Thistle (<i>Silybum marianum</i>)	735 – 965 mL	Spray at pre-cabbage stage.

Volunteer Safflower (<i>Carthamus tinctorius</i>)	880 mL	Apply to seedlings only.
Volunteer Sunflower (<i>Helianthus annuus</i>)	1.31 L	Apply to seedlings only.
Wild Radish (<i>Raphanus raphanistrum</i>)	965 mL - 1.4 L	Apply up to 2 to 3 leaf stage only.
Wild Sage (<i>Salvia verbenaca</i>)	965 mL	Spray young seedlings.
Wild Turnip (<i>Brassica spp</i>)	440 mL - 1.31 L	Spray young rosettes. Lower rates for seedlings.