



**Company Name:** ALPHA CROP PROTECTION PTY LTD  
**Product Name:** Alpha Trifluralin 480EC Herbicide  
**APVMA Approval No:** 81821/104122

<b>Label Name:</b>	Alpha Trifluralin 480EC Herbicide
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<b>Signal Headings:</b>	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
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<b>Constituent Statements:</b>	ACTIVE CONSTITUENT: 480 g/L TRIFLURALIN SOLVENT: 562 g/L HYDROCARBONS LIQUID
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<b>Mode of Action:</b>	<b>GROUP D HERBICIDE</b>
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<b>Statement of Claims:</b>	A pre-emergence herbicide for the control of annual grasses and certain broadleaf weeds in certain horticultural and agricultural crops as listed in the Directions for Use.
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<b>Net Contents:</b>	Contents: 5L, 20L, 110L, 200L, 1000L
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<b>Restraints:</b>	
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<b>Directions for Use:</b>	This section contains file attachment. <b>File Name:</b> DFU -Alpha Tri 480EC- 0915.docx <b>File Size:</b> 37193 bytes
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<b>Other Limitations:</b>	
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<b>Withholding Periods:</b>	WITHHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED.
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<b>Trade Advice:</b>	
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<b>General Instructions:</b>	<p>This section contains file attachment.</p> <p><b>File Name:</b> GI -Alpha Tri 480EC- 0915.docx</p> <p><b>File Size:</b> 23561 bytes</p>
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<b>Resistance Warning:</b>	<p><b>RESISTANT WEEDS WARNING</b> <b>GROUP D HERBICIDE</b></p> <p>Alpha Trifluralin 480EC Herbicide is a member of the dinitroaniline group of herbicides. Alpha Trifluralin 480EC Herbicide has the inhibitors of tubulin formation mode of action. For weed resistance management Alpha Trifluralin 480EC Herbicide is a Group D Herbicide.</p> <p>Some naturally-occurring weed biotypes resistant to Alpha Trifluralin 480EC Herbicide and other Group D 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. These resistant weeds will not be controlled by Alpha Trifluralin 480EC Herbicide or other Group D herbicides.</p> <p>Since the occurrence of resistant weeds is difficult to detect prior to use, Alpha Crop Protection Pty Ltd accepts no liability for any losses that may result from the failure of Alpha Trifluralin 480EC Herbicide to control resistant weeds.</p>
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<b>Precautions:</b>	
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<b>Protections:</b>	<p><b>PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS</b></p> <p>DO NOT use in high winds.</p> <p>DO NOT exceed rates specified, to avoid crop damage.</p> <p>DO NOT plant sensitive grasses such as oats, sorghum, millets, phalaris spp., rye grass, or wheat for 12 months following the use of this product except where wheat follows wheat or other winter crops.</p> <p>DO NOT plant oilseed poppies when a detectable residue of trifluralin is present in the soil. Levels as low as 0.02 ppm may interact with other unfavourable factors (moisture, stress, disease etc) to reduce poppy growth and vigour.</p> <p>DO NOT apply to orchards and vineyards after first flush of growth or when residues can lodge on or in fruit. Reduced germination of wheat and barley may occur due to combination of following circumstances and the use of this product:</p> <ul style="list-style-type: none"> <li>• Short coleoptile cultivars</li> <li>• Use of seed dressings (except Vitavax)</li> <li>• Shallow or uneven seedling depth</li> </ul> <p>Drift Warning: DO NOT apply under meteorological conditions or from spraying equipment which could be expected to cause spray drift onto nearby susceptible plants, adjacent crops, crop lands or pastures.</p> <p><b>PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT.</b></p> <p>DO NOT contaminate streams, rivers or waterways with the chemical or used container.</p>
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<b>Storage and Disposal:</b>	<p><b>STORAGE AND DISPOSAL</b></p> <p>Store in the closed, original container in a cool well-ventilated area away from children, animals, food, feedstuffs, seed and fertilisers. Do not store for prolonged periods in direct sunlight. Do not store below 5°C.</p>
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	<p>Triple-rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.</p> <p>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.</p> <p>Refillable Containers (110L, 1000L): Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.</p>
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<p><b>Safety Directions:</b></p>	<p><b>SAFETY DIRECTIONS</b></p> <p>Harmful if swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. Avoid contact with eyes and skin. Do not inhale spray mist. When opening the container and using the prepared spray wear cotton overalls, buttoned to the neck and wrist and a washable hat and elbow-length PVC gloves and face shield or goggles. 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, face shield or goggles and contaminated clothing.</p>
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<p><b>First Aid Instructions:</b></p>	<p><b>FIRST AID</b></p> <p>If poisoning occurs contact a doctor or Poisons Information Centre. Telephone Australia 13 11 26. If swallowed DO NOT induce vomiting. Give a glass of water.</p>
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<p><b>First Aid Warnings:</b></p>	
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## DIRECTIONS FOR USE

### 1. FIELD CROPS

Situation & Crop	Weeds	State	Rate L/ha soil type			Critical Comments
			Light	Medium	Heavy	
Chickpeas	Annual Ryegrass, Paradoxa Grass (Canary Grass), Wireweed (Hogweed), Black Pigweed, Suppression of Climbing Buckwheat (Black Bindweed), soil surface Wild Oats	Qld only	1.25 – 1.7 L/ha	1.25 – 1.7 L/ha	1.25 – 1.7 L/ha	Use 1.25 L/ha when applying immediately prior to sowing. Use 1.7 L/ha when applying to dry soil before the planting rain.
	Annual Ryegrass, Wireweed (hogweed), Deadnettle, Wild Oats	Vic only	800 mL/ha plus 1 L/ha triallate (550 g/L)			Incorporate as per recommendations for wheat, barley and triticale.
	Red & White Fumitory, Rough Poppy, Wireweed, Annual Ryegrass, Barley Grass, Canary Grass, Sand Fescue, Suppression of Deadnettle, Speedwell, Three Cornered Jack, Yellow Burrweed, Brome Grass, Cereal Oats and soil surface Wild Oats	SA only	1.25 L/ha	1.25 L/ha	1.25 L/ha	Apply to level seedbed 0 to 4 weeks before sowing. Incorporate as per incorporation Table 6.
	Amaranthus, Annual Ryegrass, Barnyard Grass, Caltrop, Crab Grass, Paradoxa Grass (Canary Grass), Pigweed, soil surface Wild Oats, Winter Grass, Wireweed, Suppression of Fumitory	NSW, ACT only	1.2 – 1.5 L/ha	1.5 L/ha	1.7 L/ha	Apply from 4 weeks up to just prior to sowing. Refer Incorporation Table 3, 4 or 5 for suitable method of incorporation.
Adzuki Beans, Cowpeas, Lablab, Mung Beans, Borlotti Beans, Red Kidney Beans	NSW, ACT, Qld only					
Faba Beans	Annual Ryegrass, Barley Grass, Capeweed, Corn Gromwell ( <i>Sheepweed</i> ), Fumitories, Geranium, Ivy Leaf, Speedwell, Mustards, Turnips, Wireweed, Suppression of Brome Grass, Soursob and soil surface Wild Oats	SA, WA only	800 mL/ha plus 1 - 1.5 L/ha Simazine Flowable (500 g/L)			Apply to bare moist soil and grate to a depth of 5 cm just prior to sowing. Incorporation should be made within 4 hours of application. Application should not be made to ridged or excessively cloddy soil. For full reliable results, significant rainfall (20 – 30 mm) is necessary within 2 - 3 weeks of application.
Pigeon Peas	Amaranthus, Barnyard Grass, Canary Grass, Crowsfoot Grass, Pigweed, Spiny Burrgrass, Summer Grass, soil surface Wild Oats, Wireweed (Hogweed), Suppression of Yellow Vine (Caltrop), From seed only: Columbus Grass, Guinea Grass, Johnson Grass, Liverseed Grass	NSW, ACT only	1.2 L/ha	1.5 L/ha	1.7 L/ha	Apply between 4 weeks and just before sowing. Refer to Incorporation Table 3, 4 or 6 for suitable method of incorporation.
Lentils	Annual Phalaris, Annual Ryegrass, Wild Oats, Wireweed	NSW, ACT only	800 mL/ha	1.2 L/ha	1.2 L/ha	Apply 1 to 4 weeks before sowing.
	Fumitory – Red and White, Rough Poppy, Wireweed, Barley Grass, Canary Grass, Annual Ryegrass, Sand Fescue	SA only	1.25 L/ha	1.25 L/ha	1.25 L/ha	Apply 1 to 4 weeks before sowing.

1. FIELD CROPS *continued*

Situation & Crop	Weeds	State	Rate L/ha soil type			Critical Comments
			Light	Medium	Heavy	
Navy Beans	Annual Ryegrass, Barnyard Grass,	All States	1.2 L/ha	1.5 L/ha	1.7 L/ha	Spray between 4 weeks and just before sowing takes place. Refer Incorporation Table 3, 4 or 5 for suitable method of incorporation.
Soybeans	Canary Grass, Caltrop (Bullhead/Yellow Vine), Crab Grass, Mossman River Grass (Innocent Weed), Pigweed, Redroot (Amaranthus), Redshank (Prince of Wales Feather), Summer Grass, soil surface Wild Oats, Winter Grass, Wireweed (Hogweed), From seed only: Columbus Grass, Guinea Grass, Johnson Grass, Liverseed Grass ( <i>Urochloa</i> )		1.2 L/ha	1.7 L/ha	2.3 L/ha	
Vetch	Annual Ryegrass, Deadnettle, Wireweed, soil surface Wild Oats, suppression of Brome Grass, Rough Poppy, Speedwell, Three Cornered Jack, Yellow Burr Weed, Sheepweed	SA, WA only	1.7 L/ha	1.7 L/ha	1.7 L/ha	Apply to level seedbed 0 to 4 weeks before sowing. Refer to incorporation Table 6 for method of incorporation.
Cotton	Annual Ryegrass, Barnyard Grass, Canary Grass, Caltrop (Bullhead/Yellow Vine), Crab Grass, Mossman	Qld, NSW, ACT, WA only	1.2 L/ha	1.7 L/ha	2.3 L/ha	Spray between 6 weeks and just before sowing takes place. Refer Incorporation Table 1 & 2 for method of incorporation.
Legume Seed Crop Establishment	Player Grass (Innocent Weed), Pigweed, Redroot (Amaranthus), Redshank (Prince of Wales Feather), Summer Grass, soil surface Wild Oats, Winter Grass, Wireweed (Hogweed), Black Pigweed (Qld only)	NSW, ACT, SA, WA, Vic, Tas only	1.2 L/ha	1.2 L/ha	1.7 L/ha	Autumn Sowing – Apply from 4 weeks to 7 days before sowing takes place. Refer Incorporation Table 6 for method of incorporation.
- Annual Medics - Clover (Berseem, Red, Strawberry Sub & White)	Summer Grass, soil surface Wild Oats, Winter Grass, Wireweed (Hogweed), Black Pigweed (Qld only)		1.7L/ha	1.7 L/ha	1.7 L/ha	Spring Sowing – Apply between 4 weeks and 3 days before sowing takes place. Refer Incorporation Table 6 for method of incorporation.
- Lucerne for hay and seed crop	From seed only: Columbus – Guinea Grass, Johnson Grass, Liverseed Grass ( <i>Urochloa</i> )	All States				In both cases seedling disease, cold weather, excessive moisture, high salt concentrations and drought could weaken crop seedlings and damage could occur from the use of this product. Temporary drop suppression could result.
Linseed		NSW, ACT, SA, WA, Vic only	1.2 L/ha	1.5 L/ha	1.7 L/ha	Spray 2 - 4 weeks before sowing. Sowing depth should be 1.3 to 2.5 cm. Deeper sowing may result in some stand reduction. Refer Incorporation Table 6 for method of incorporation.
Peanuts		WA, Qld only				Spray between 4 weeks and just before sowing takes place. Refer Incorporation Table 3, 4 or 5 for suitable method of incorporation.
Peas		All States				Spray between 4 weeks and just before sowing takes place. Refer Incorporation Table 6 or 11 for method of incorporation.
Canola, Safflower						
Sugarcane Early season Late season		Qld, NSW only	3 L/ha 2.3 L/ha	3 L/ha 2.3 L/ha	3 L/ha 2.3 L/ha	Apply to plant cane after emergence to "out of hand" stage. Apply to ratoon cane immediately after harvest. Refer Incorporation Table 3, 7 or 10 for suitable method of incorporation.

Situation & Crop	Weeds	State	Rate L/ha – Soil Type			Critical Comments
			Light	Medium	Heavy	
Sunflowers	Annual Ryegrass, Barnyard Grass, Canary Grass, Caltrop (Bullhead/Yellow Vine), Crab Grass, Mossman Player Grass (Innocent Weed), Pigweed, Redroot (Amaranthus), Redshank (Prince of Wales Feather), Summer Grass, soil surface Wild Oats, Winter Grass, Wireweed (Hogweed), Black Pigweed (Qld only)	All States	1.2 L/ha	1.5 L/ha	1.7 L/ha	Spray between 4 weeks and just before sowing takes place. Refer Incorporation Table 3, 4 or 5 for method of incorporation.
Lupins	From seed only: Columbus – Guinea Grass, Johnson Grass, Liverseed Grass (Urochloa)	All States	1.2 L/ha	1.5 L/ha	1.7 L/ha	Spray between 4 weeks and just before sowing takes place. Refer Incorporation Table 6 for method of incorporation.
	Annual Grasses and Broadleaf Weeds	NSW, ACT, Vic, Qld only	800 mL/ha plus 3 L/ha of Simazine Flowable (500 g/L)			Use a low volume boom applying 50 - 100 litres spray mixture per hectare. Apply to bare moist soil and incorporate to a depth of 5 cm just prior to sowing the crop. Incorporate within 4 hours of application. Do not spray to a ridged soil.
	Capeweed, Turnip, Radish, Doublegee and suppression of Annual Ryegrass and soil surface Wild Oats	WA only	1.25 L/ha plus 1 - 1.5 L/ha of Simazine Flowable (500 g/L)			Rate for Yellow Sands.
	As above plus suppression of Brome Grass		1.25 L/ha plus 2 L/ha of Simazine Flowable (500 g/L)			Rate for all other soil types. Apply to bare moist soil and incorporate to a depth of 5 cm just prior to sowing. Incorporation should be made within 4 hours of application. Application should not be made to rigid or excessively cloddy soil. For Simazine to be effective sufficient rainfall (20 to 30 mm) to wet the soil through the weed root zone is necessary within 2 - 3 weeks of application. Results with Simazine can be variable if seasonal conditions are dry prior to sowing and lupins are sown into dry or low moisture seed beds.
	Capeweed, Doublegee, Wild Radish, Wild Turnip plus suppression of Annual Ryegrass, soil surface Wild Oats and Brome Grass		1.25 L/ha plus 2 L/ha of Diuron Flowable (500 g/L)			DO NOT use on white or grey sands as severe crop damage may result. Use tank mix of diuron & trifluralin where Annual Ryegrass is present. Apply at pre-sowing stage. <b>TANK MIXTURES:</b> Read and follow all label directions including restraints, spray drift restraints, mandatory no-spray zones, critical comments, withholding periods, regional use restrictions and safety directions for the tank mix products.
	Red & White Fumitory, Rough Poppy, Wireweed, Barley Grass, Canary Grass, Annual Ryegrass, Sand Fescue, suppression of Deadnettle, Speedwell, Three Cornered Jack, Yellow Burr Weed, Brome Grass, Cereal Oats, soil surface Wild Oats	SA only	1.25 – 1.7 L/ha	1.25 – 1.7 L/ha	1.25 – 1.7 L/ha	Spray between 4 weeks and just before sowing takes place. Refer Incorporation Table 6 for method of incorporation.
	Above weeds plus Capeweed, Common Fumitory, Geranium, Indian Hedge Mustard, Sheepweed, Shepherd Purse, Toadrush, Turnips, suppression of Ice Plant & Soursob		1.25 L/ha to 1.7 L/ha plus 2 to 4 L/ha of Simazine Flowable (500 g/L)			Use a low volume boom applying 50 - 100 litres spray mixture per hectare. Apply to bare moist soil and incorporate to a depth of 5 cm just prior to sowing the crop. Incorporate within 4 hours of application. Do not apply to ridged soil.

Situation & Crop	Weeds	State	Rate L/ha - Soil Type			Critical Comments
			Light	Medium	Heavy	
Tobacco	Summer Grass, Crowsfoot Grass, Red Natal Grass, Love Grass, Button Grass, Rhodes Grass, Pigweed	Qld only	800 mL/ha	1.2 L/ha	-	Apply to soil 3 - 4 weeks prior to transplanting. The longer period to be used for applications made during June & July. Incorporate to a depth of 10 cm.
	Crowsfoot Grass	NSW, ACT only	800mL/ha	1.2 L/ha	1.2L/ha	Apply to light sandy soil 14 to 21 days before transplanting. Do not incorporate to a depth greater than 6 cm. Apply to loam (medium soil) 14 to 21 days before transplanting. DO NOT incorporate to a depth of greater than 6 cm.
Wheat, Barley & Triticale  1. Pre-sowing only  2. Pre-sowing & Post-sowing (self mulching soils)	Annual Ryegrass, Wireweed (Hogweed), Phalaris spp.	NSW, ACT, WA & Vic only	800 mL/ha	800 mL/ha	800 mL/ha	Apply 1 - 4 weeks before sowing. Sowing depth should be at least 5 cm. Use cover harrows behind combine. Ground should be left flat. DO NOT use pre-sowing on self-mulching soils as damage may occur from wheel tracking and poor control of wild oats. Refer Incorporation Table 6 for method of incorporation.
	Fumitory	WA only				
	Canary Grass	Vic only				
	As above except for Fumitory	Vic only				
Wheat  Barley	Annual Ryegrass, Paradoxa Grass (Canary Grass), soil surface Wild Oats, Wireweed (Hogweed)	Qld only	800 mL/ha	800 mL/ha	800 mL/ha	On non self mulching soils apply 1 - 4 weeks before sowing. Sowing depth should be at least 5 cm. Use cover harrows behind combine. Ground should be left flat. On self mulching soils as above except apply more than 4 weeks before sowing to prevent crop damage. Refer Incorporation Table 6 for method of incorporation.
						Apply to self-mulching and non self-mulching soils from 1 - 4 weeks before sowing. Sowing depth should be at least 5 cm. Use cover harrows behind combine. Ground should be left flat. Refer Incorporation Table 6 for suitable method of incorporation.
Wheat, Triticale, Rye	Annual Ryegrass, Red & White Fumitory, Phalaris spp., Wireweed, suppression of Deadnettle, Rough Poppy, Yellow Burr Weed	SA only	800 mL/ha	800 mL/ha	800 mL/ha	Apply 1 - 4 weeks before sowing. Sowing depth should be at least 5 cm. Use cover harrows behind combine. Ground should be left flat. DO NOT use pre-sowing on self-mulching soils as damage may occur from wheel tracking and poor control of wild oats. Refer Incorporation Table 6 for method of incorporation.
Barley	As above for SA plus Sand Fescue and suppression of Brome Grass		1.25 L/ha	1.25 L/ha	1.25 L/ha	
Wheat & Triticale only	Annual Phalaris	NSW, ACT only	800 mL/ha plus 20 g/ha Chlorsulfuron 750 WG Herbicide			If possible spray and incorporation into the soil in one operation. If this is not possible incorporation should take place within 4 hours of spraying. Delay may cause inferior weed control.

**2. FIELD CROPS: FOR USE IN NO-TILL/MIN TILL CROPPING, PRE-SOWING OR INCORPORATION BY SOWING (IBS)  
(Using incorporation Table 13).**

Situation & Crop	Weeds	State	Rate	Critical Comments
Wheat, barley and triticale	Annual ryegrass, Wireweed (Hogweed), Phalaris spp., Fumitory	WA, SA, Vic, NSW, ACT, only	1.5 – 2.0 L/ha	Use the higher rate on lighter sandy loam soils. DO NOT use on heavy soils. Use with Knife/Blade point sowing equipment. Use the higher rate for heavier stubble coverage. Stubble coverage above 40 - 50% ground cover can reduce weed control below acceptable levels. Refer Table 13 for method of incorporation.  Application can occur 0 - 24 hours prior to incorporation by sowing. For best results apply as close as possible to sowing (within 12 hours). Application 12 - 24 hours before sowing may be more adversely affected by above average soil moisture, warm temperatures and high seed densities. These factors individually or combined may reduce final weed control levels.
Chickpeas		WA only	1.25 - 1.7 L/ha plus 1.1 kg/ha simazine (900g/kg)	Incorporate as per incorporation Table 13.

**3. VEGETABLES, ORCHARDS AND VINEYARDS**

Situation & Crop	Weeds	State	Rate/soil type			Critical Comments
			Light	Medium	Heavy	
Transplants only Broccoli, Cabbage, Cauliflowers, Tomatoes	Annual Ryegrass, Barnyard Grass, Canary Grass, Caltrop, ( <i>Bullhead Yellow Vine</i> ), Crab Grass, Mossman River Grass ( <i>Innocent Grass</i> ), Pigweed Redroot (Amaranthus), Redshank ( <i>Prince of Wales Feather</i> ), Summer Grass, soil surface Wild Oats, Winter Grass, Wireweed ( <i>Hogweed</i> )	All States	1.2 L/ha	1.7 L/ha	2.3 L/ha	Spray between 4 weeks and just before sowing takes place. Refer Incorporation Table 3, 4 or 5 suitable method of incorporation.
Direct Seeded Only Broccoli, Brussels Sprouts, Cabbage						
Cauliflower		Vic, only				
Carrots		All States				
Chicory		Vic only				
Green Beans		From seed only: Columbus Grass, Guinea Grass, Johnson Grass, Liverseed Grass ( <i>Urochloa</i> )	All States	1.2 L/ha	1.5 L/ha	
Orchards and Vineyards		Qld, SA, WA, Vic, Tas only	1.2 L/ha	1.7 L/ha	2.3 L/ha	Apply to new planting during pre plant cultivation. Apply to established crops in Spring after weeds and green manure crop has been ploughed into ground. Refer Incorporation Table 8 or 9 for suitable method of incorporation.

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



## GENERAL INSTRUCTIONS:

**THIS PRODUCT MUST BE INCORPORATED INTO THE SOIL WITHIN 4 HOURS OF APPLICATION. EXCEPT WHERE THE CROP IS SOWN WITH MINIMUM TILLAGE SOWING EQUIPMENT (FITTED WITH KNIFE POINTS OR BLADES LESS THAN 12 mm WIDE, USUALLY WITH PRESS WHEELS) WHERE APPLICATION MAY OCCUR UP TO 24 HOURS BEFORE INCORPORATION BY THE SOWING PROCESS.**

### INCORPORATION TABLE

1. Prior to furrowing out: 2 workings at an angle required using Offset or Tandem disc harrows.
2. After furrowing out: 2 workings required using Go-Devil discs or Lillion cultivators set at 10 cm depth.
3. Rotary Hoe: 1 working required at 5 - 7.5 cm depth. Sugar Cane: 7.5 - 13 cm depth.
4. Offset or Tandem Disc Harrows: (preferably with spiked harrows in tandem) 2 workings at an angle required at 7.5 - 15 cm depth at 6.5 - 10 km per hour.
5. Heavy Diamond or Stump Jump Harrows: (weighted 20 - 30 kg per section) at 10 - 13 km/hr speed. Then cross work with offset or tandem disc harrows set to 7.5 – 15 cm depth at speed 6.5 – 10 km per hour.
6. Weighted Heavy Diamond or Stump Jump Harrows (weighted with 20 - 30 kg per section) at 10 - 13km per hour. Cross work with combine at 5 - 7.5 cm depth at speed of 10 - 13 km/hr.
7. Disc Ratoon Cultivator: 2 workings needed with discs and cultivator set at 7.5 - 13 cm depth.
8. Offset or Tandem Disc Harrows: Set at 7.5 - 15 cm depth. A second discing is required working in opposite direction with discs set to throw treated soil into tree or vine row.
9. Rotary Hoe: 1 working needed at 5 - 10 cm depth.
10. Offset Discs (Bumpers): 2 workings needed at depth 7.5 - 13 cm.
11. Incorporation by Sowing (IBS) on suitably prepared seedbed with heavy diamond harrows trailing or as a separate operation.
12. Post-sowing/Pre-emergence: Use heavy diamond harrows cross working at right angles to the direction of sowing. Do not attempt this method of incorporation on poorly prepared, clumpy or cloddy soils.
13. Incorporation by sowing (IBS) with knife or blade points. Use press wheels to avoid dragging treated soil back into the seed furrow. Maintain slow to moderate speed to ensure that soil throw is not into adjacent furrows.

Note: a) Knife or blade point systems can result in poor weed control in the seed furrow as chemical displacement from this zone occurs. Stubble coverage above 40 - 50% ground cover can reduce weed control below acceptable levels.

b) A knife or blade point is 12 mm or less, has no wings, inverted T or blade, and is generally placed on minimum 20 cm tyne spacing.

### MIXING

This product is an emulsifiable concentrate which mixes readily with water. Add the recommended amount to the spray tank during filing operation and apply 70 – 450 L of water/ha (broadcast basis) dependent on soil type.

Ensure adequate agitation is continued throughout the operation. Leaving the made up spray mixture for long periods of time without agitation is not recommended.

Under hot conditions or where possible spray and incorporate into the soil in one operation. Delay may cause inferior weed control. Use properly calibrated standard low-pressure (170 - 340 kPa) boom type sprayer with fan tips.

### CONDITIONS FOR BEST RESULTS

This product must be thoroughly incorporated as recommended. Soil should be well worked and free of weeds at time of application. Product effectiveness may be reduced by inadequate incorporation, high organic matter, excess clods, crop or trash residues, stones or other foreign matter and in areas of unnaturally high weed seed population such as header tracks or livestock rest areas. Trifluralin is volatile and disappears from exposed surfaces. Loss is hastened by high temperatures, winds or warm moist soil.

### **INTEGRATED WEED MANAGEMENT**

The use of Integrated Weed Management techniques in conjunction with Alpha Trifluralin 480EC Herbicide are always recommended. Agronomic practices that reduce the weed seed bank in the soil prior to the use of Alpha Trifluralin 480EC Herbicide will result in higher weed control levels from Alpha Trifluralin 480EC Herbicide. Failure to use Agronomic and Integrated Weed Management practices that reduce the weed seed bank in the soil will result in higher weed seed populations. Paddocks with excessively high weed seed banks may have sufficient weed numbers surviving such that final weed control may be considered below a commercially acceptable level and additional herbicide treatments may be necessary. The use of Integrated Weed Management techniques will also reduce potential for the development or survival of Group D herbicide resistance weed biotypes.

### **WILD OATS**

Germinating wild oat seeds lying on soil surface will not be controlled. Therefore, specific wild oat control is only possible with shallow cultivation. Poor control will occur on self-mulching soils and all soil types where deep cultivation is practiced.

### **EQUIPMENT MAINTENANCE AND USAGE**

Keep the spray unit for herbicides only if possible. Otherwise, spray tanks, pumps, lines and nozzles should be thoroughly rinsed several times with clean water following application. Spray Sure Spray Tank Cleaner is suitable for this purpose and will also remove Trifluralin stains.