

Product Name: NUFARM TRIFLUR 480 SELECTIVE HERBICIDE  
APVMA Approval No: 61991/131848



Label Name:	TRIF 480 HERBICIDE
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Signal Headings:	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
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Constituent Statements:	Formulation A 480 g/L TRIFLURALIN ALSO CONTAINS 509 g/L HYDROCARBON LIQUID  Formulation B 480 g/L TRIFLURALIN ALSO CONTAINS 497 g/L HYDROCARBON LIQUID 2.4 g/L POLYETHANOXY (15) TALLOW AMINE
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Mode of Action:	GROUP 3 HERBICIDE
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Statement of Claims:	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 table.
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Net Contents:	20-1000L
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Restraints:	
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Directions for Use:	This section contains file attachment.
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Other Limitations:	
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Withholding Periods:	<p>HARVEST: NOT REQUIRED WHEN USED AS DIRECTED.</p> <p>GRAZING:</p> <p>Swedes and turnips: DO NOT GRAZE OR CUT TREATED CROPS FOR STOCK FOOD.</p> <p>Tea tree: DO NOT GRAZE TREATED AREAS OR CUT FOR STOCK FOOD FOR 8 WEEKS AFTER APPLICATION.</p> <p>Industrial hemp: DO NOT GRAZE TREATED AREAS FOR 14 DAYS AFTER APPLICATION.</p> <p>Other crops: NOT REQUIRED WHEN USED AS DIRECTED.</p>
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Trade Advice:	<p>EXPORT OF TREATED PRODUCE</p> <p>Growers should note that maximum residue limits (MRLs) or import tolerances may not exist in all markets for edible produce treated with this product. If you are growing edible produce for export, please check with National Rural Independents Ltd for the latest information on MRLs and import tolerances before using this product.</p>
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General Instructions:	<p>GENERAL INSTRUCTIONS</p> <p>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 12MM WIDE, USUALLY WITH PRESS WHEELS) WHERE APPLICATION MAY OCCUR UP TO 24 HOURS BEFORE INCORPORATION BY THE SOWING PROCESS.</p> <p>INCORPORATION TABLE</p> <ol style="list-style-type: none"> <li>1. Prior to furrowing out: - 2 workings at an angle required using Offset or Tandem disc harrows.</li> <li>2. After furrowing out: - 2 workings required using Go-Devil discs or Lilliston cultivators set at 10 cm depth.</li> <li>3. Rotary Hoe: - 1 working required at 5 - 7.5 cm depth. Sugar Cane: - 7.5 - 13 cm depth.</li> <li>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/hr.</li> <li>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 7.5-15cm depth at speed 6.5 - 10 km/hr.</li> <li>6. Weighted Heavy Diamond or Stump Jump Harrows: (weighted with 20 - 30 kg per section) at 10 - 13 km/hr. Cross work with combine at 5 - 7.5 cm depth at speed of 10 - 13 km/hr.</li> <li>7. Disc Ratoon Cultivator: - 2 workings needed with discs and cultivator set at 7.5 - 13 cm depth.</li> <li>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.</li> <li>9. Rotary Hoe: - 1 working needed at 5 - 10 cm depth.</li> <li>10. Offset Discs (Bumpers): - 2 workings needed at depth of 7.5 - 13 cm.</li> <li>11. Incorporation by sowing (IBS) on suitably prepared seedbed with heavy diamond harrows trailing or as a separate operation.</li> <li>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.</li> <li>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</li> </ol>
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is generally placed on a minimum 8 inch tyne spacing. c. DO NOT use with disc openers/ planting equipment.

#### MIXING

This product is an emulsifiable concentrate which mixes readily with water. Add the recommended amount to the spray tank during filling operation and apply 70 - 450 L of water/ha (broadcast basis) dependent on soil type and stubble coverage level. For minimum tillage/stubble retention seeding systems use of the higher water volumes may help reduce the impact of stubble.

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 kilopascal) 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 Trif 480 are always recommended. Agronomic practices that reduce the weed seed bank in the soil prior to the use of Trif 480 will result in higher weed control levels from Trif 480. 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 the potential for the development or survival of Group D herbicide resistance weed biotypes.

#### WILD OATS

Germinating wild oat seeds lying on soil surface will 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 practised.

#### COMPATIBILITY

This product may be mixed in the spray tank with:

Herbicides: Avadex® Xtra, BroadSword®, Broadstrike\*, Nufarm CRUCIAL® Advanced Technology Herbicide, chlorsulfuron, diuron, Gladiator® CT, Gramoxone\*, Kyte® 700 WG, metribuzin, simazine, Shirquat® 250, Spray\*seed\*/Revolver®, Spinnaker\*, triasulfuron, Terrain®, weedmaster® DST.

Insecticides: Astral 250EC, Kaiso 240EG, Chlorpyrifos.

NOTE: 1. Information on compatibility is understood to be correct at the time of publication, however products may vary from time to time, therefore a small scale compatibility test should be carried out before mixing in the spray tank.

2. Observe any mixing sequence instructions for tank mix products.

#### 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. Tank & Equipment Cleaner is suitable for this purpose and will also remove Trifluralin stains.

Resistance Warning:

RESISTANT WEEDS WARNING  
GROUP 3 HERBICIDE

	<p>Trif 480 Herbicide ("Trif 480") is a member of the Dinitronilines group of herbicides. Trif 480 has the inhibitors of tubulin formation mode of action. For weed resistance management Trif 480 is a Group 3 herbicide. Some naturally-occurring weed biotypes resistant to Trif 480 and other Group 3 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 Trif 480 or other Group 3 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, National Rural Independents Ltd accepts no liability for any losses that may result from the failure of Trif 480 to control resistant weeds.</p>
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Precautions:	<p><b>PRECAUTIONS</b>  <b>RE-ENTRY PERIOD - DO NOT</b> allow entry into treated areas until the spray has dried, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.</p>
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Protections:	<p><b>PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS</b>  <b>DO NOT</b> use in high winds.  <b>DO NOT</b> exceed rates specified, to avoid crop damage.  <b>DO NOT</b> plant sensitive grasses such as oats, sorghum, millets, phalaris spp., ryegrass or wheat for 12 months following the use of this product except where wheat follows wheat or other winter crops.  <b>DO NOT</b> plant oilseed poppies when a detectable residue of Trifluralin is present in the soil. Levels as low as 0.02ppm may interact with other unfavourable factors (moisture, stress, disease etc.) to reduce poppy growth and vigour.  <b>DO NOT</b> 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 seeding depth.</li> </ul> <p>Drift Warning: <b>DO NOT</b> 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>  <b>DO NOT</b> contaminate streams, rivers or waterways with the chemical or used containers.</p>
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Storage and Disposal:	<p><b>STORAGE AND DISPOSAL</b>  Store in the closed, original container in a dry, cool, well-ventilated area, out of direct sunlight.  <b>DO NOT</b> store below 5°C. Extended storage below 5°C can result in the formation of crystals on the bottom of the container. If crystallisation does occur, store the container on its side at room temperature and rock occasionally until crystals re-dissolve. Ensure any crystals are dissolved before adding to the spray tank.</p> <p><b>Non-refillable containers</b>  Triple-rinse containers before disposal. Add rinsings to spray tank. <b>DO NOT</b> dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.  If not recycling, break, crush, or puncture and deliver empty packaging 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. <b>DO NOT</b> burn empty containers or product.</p>
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Refillable containers

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

Safety Directions:

SAFETY DIRECTIONS

Harmful if swallowed.

Poisonous if inhaled.

Will damage eyes, nose and throat.

Will irritate the skin.

Repeated exposure may cause allergic disorders.

Avoid contact with eyes and skin. DO NOT inhale vapour or spray mist.

When opening the container and preparing the spray wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow length chemical resistant gloves, goggles and half-piece respirator.

When using the prepared spray wear cotton overalls buttoned to the neck and wrist, a washable hat and elbow length chemical resistant gloves.

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, respirator and if rubber wash with detergent and warm water, and contaminated clothing.

First Aid Instructions:

FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre. Phone 13 11 26, New Zealand 0800 764 766.

If swallowed DO NOT induce vomiting.

If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

If skin contact occurs, remove contaminated clothing and wash skin thoroughly.

First Aid Warnings:

## DIRECTIONS FOR USE

### 1. FIELD CROPS

CROP	WEEDS	STATE	RATE/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			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), Dead nettles, Wild oats	Vic only	800 mL/ha plus 1.6 L/ha Avadex® Xtra			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 Dead nettle, Speedwell, Three-cornered Jack, Yellow burr weed, Brome grass, Cereal oats and soil surface Wild oats	SA only	1.25 L/ha			Apply to level seedbed 0 to 4 weeks before sowing. Incorporate as per Incorporation Table point 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 point 3, 4 or 5 for 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 (Sheepweed), 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 kg/ha of a 900 g/kg simazine product			Apply to bare moist soil and incorporate to a depth of 5cm 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 or 30mm) is necessary within 2-3 weeks of application.
Pigeon peas	Amaranthus, Barnyard grass, Canary grass, Crowsfoot grass, Pigweed, Spiny burgrass, 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 point 3, 4 or 6 for method of incorporation.
Lentils	Annual phalaris, Annual ryegrass, Wild oats, Wireweed	NSW, ACT only	800 mL/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			Apply 1 to 4 weeks before sowing.

CROP	WEEDS	STATE	RATE/SOIL TYPE			CRITICAL COMMENTS
			LIGHT	MEDIUM	HEAVY	
Navy beans	Annual ryegrass, Barnyard grass, Canary grass, Caltrop (Bullhead, Yellow vine), Crab 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 point 3, 4 or 5 for method of incorporation.
Soybeans	Mossman River grass (Innocent grass), 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 (Urochloa)		1.2 L/ha	1.7 L/ha	2.3 L/ha	
Vetch	Annual ryegrass, Dead nettle, 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			Apply to level seedbed 0 to 4 weeks before sowing. Refer to Incorporation Table point 6 for method of incorporation.
Cotton	Crab grass, Mossman River grass (Innocent Weed), Pigweed, Redroot (Amaranthus), Redshank (Prince of Wales feather), Summer grass, soil surface Wild oats,	Qld, ACT, NSW, 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 point 1 & 2 for method of incorporation.
Legume Seed Crop Establishment  - Annual Medics - Clover (Berseem, Red, Strawberry, Sub and White)	Winter grass, Wireweed (Hogweed), Black pigweed (Qld only), From seed only: Columbus grass, Guinea grass, Johnson grass, Liverseed grass (Urochloa), Annual ryegrass, Barnyard grass, Canary grass, Caltrop (Bullhead/ Yellow vine), Phalaris spp.	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 point 6 for method of incorporation.  Spring Sowing – Apply between 4 weeks and 3 days before sowing takes place. Refer Incorporation Table point 6 for method of incorporation.
- Lucerne for hay and seed crop	Fumitory	All States	1.2 L/ha	1.7 L/ha	1.7 L/ha	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 crop 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 point 6 for method of incorporation.
Peanuts		WA, Qld, only				Spray between 4 weeks and just before sowing takes place. Refer Incorporation Table point 3, 4 or 5 for method of incorporation.
Peas Canola Mustard (oilseed cultivars)( <i>Brassica juncea</i> ) Safflower		All States				Spray between 4 weeks and just before sowing takes place. Refer Incorporation Table point 6 or 11 for method of incorporation.
Sugar cane - Early Season - Late Season		Qld, NSW only	3.0 L/ha 2.3 L/ha	3.0 L/ha 2.3 L/ha	3.0 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 point 3, 7 or 10 for method of incorporation.
Sunflowers	Refer to weeds on previous page	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 point 3, 4 or 5 for method of incorporation.
Lupins						Spray between 4 weeks and just before sowing takes place. Refer Incorporation Table point 6 for method of incorporation. <b>WA only:</b> Use higher rate for heavier stubble coverage. Stubble coverage above 40-50% ground cover can reduce weed control below acceptable levels. Refer Incorporation Table point 13 for method of incorporation.
	Annual grasses and broadleaf weeds	NSW, ACT, Vic, Qld only	800 mL/ha plus 1.7 kg/ha of a 900 g/kg simazine product			Use a low volume boom applying 50 - 100 L/ha spray mixture. Apply to bare moist soil and incorporate to a depth of 5cm just prior to sowing the crop. Incorporate within 4 hours of application. <b>DO NOT</b> apply to a ridged soil.
	Capeweed, Turnip, Radish, Double gee and Suppression of Annual ryegrass and soil surface Wild oats	WA only	1.25 L/ha plus 560 - 830 g/ha of a 900 g/kg simazine product			Rate for Yellow Sands. Refer to Incorporation Table point 11, 12 or 13.

CROP	WEEDS	STATE	RATE/SOIL TYPE			CRITICAL COMMENTS
			LIGHT	MEDIUM	HEAVY	
Lupins cont.	As above plus suppression of Brome grass	WA only	1.25 L/ha plus 1.1 kg/ha of a 900 g/kg simazine product			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 ridged or excessively cloddy soil. For Simazine to be effective sufficient rainfall (20 - 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, Double gee, Wild radish, Wild turnip plus suppression of Annual ryegrass, soil surface Wild oats and Brome grass		1.25 L/ha plus 1.1 kg/ha of a 900 g/kg diuron product			<b>DO NOT</b> use on white or grey sands as severe crop damage may result. Use tank mix of Diuron & Trifluralin where Annual ryegrass is present. Apply pre-sowing stage when using incorporation method in Incorporation Table point 13. For Post-sowing Pre-emergent application, ensure seed is adequately covered with soil. Refer to Incorporation Table point 12.
	Red & White fumitory, Rough poppy, Wireweed, Barley grass, Canary grass, Annual ryegrass, Sand fescue, suppression of Dead nettle, Speedwell, Three-Cornered Jack, Yellow burr weed, Brome grass, Cereal oats, soil surface Wild oats	SA only	1.25 - 1.7 L/ha			Spray between 4 weeks and just before sowing takes place. Refer Incorporation Table point 6 for method of incorporation.
	Above weeds plus Capeweed, Common fumitory, Geranium, Indian hedge mustard, Sheepweed, Shepherd's purse, Toad rush, Turnips, suppression of Ice plant, Soursob	SA only	1.25 - 1.7 L/ha plus 1.1 - 2.2 kg/ha of a 900 g/kg simazine product			Use a low volume boom applying 50 - 100 L/ha spray mixture. 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. <b>DO NOT</b> apply to a ridged soil.
Tobacco	Summer grass, Crowsfoot grass, Red natal grass, Lovegrass, 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 10cm.
	Crowsfoot grass	NSW, ACT only	800 mL/ha	1.2 L/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. <b>DO NOT</b> incorporate to a depth of greater than 6 cm.
Wheat, Barley & Triticale	Annual ryegrass, Wireweed (Hogweed), Phalaris spp.	NSW, ACT, WA, Vic only	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. <b>DO NOT</b> use pre-sowing on self-mulching soils as damage may occur from wheel tracking and poor control of wild oats. Refer Incorporation Table point 6 for method of incorporation.
	Fumitory	WA only				
	Canary grass	Vic only				
1. Pre-Sowing Only	As above, except for Fumitory	Vic only				Pre-sowing – Apply more than 4 weeks before sowing to prevent crop damage. Post Sowing – Apply within 2 days after sowing to well prepared seedbed. Refer Incorporation Table point 6 for method of incorporation.
2. Pre-Sowing & Post Sowing (self-mulching soils)						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 point 6 for method of incorporation.
Wheat	Annual ryegrass, Paradoxa grass (Canary grass), soil surface Wild oats, Wireweed (Hogweed)	Qld only				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 point 6 for method of incorporation.
Barley						



CROP	WEEDS	STATE	RATE/SOIL TYPE			CRITICAL COMMENTS
			LIGHT	MEDIUM	HEAVY	
Wheat, Triticale, Rye	Annual ryegrass, Red & White fumitory, Phalaris spp., Wireweed, Suppression of Dead nettle, Rough poppy, Yellow burr weed	SA only	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. <b>DO NOT</b> use pre-sowing on self-mulching soils as damage may occur from wheel tracking and poor control of wild oats. Refer Incorporation Table point 6 for method of incorporation.
Barley	As above for SA plus Sand fescue and suppression of Brome grass		1.25 L/ha			
Quinoa ( <i>Chenopodium quinoa</i> )	Annual ryegrass, Fumitory spp., Paradoxa grass (Canary grass), Phalaris spp., Wild oats, Wireweed (Hogweed) Suppression of Dead nettle, Rough poppy, Yellow bur weed	All states	1.5 - 2 L/ha			Spray between 4 weeks and just prior to sowing using a boom spray or equivalent in 50 - 100 L water/ha. Trif 480 must be thoroughly incorporated into the soil within 4 hours of application using Knife Point, No-till seeding systems or equivalent. <b>DO NOT</b> apply more than one application per crop. The sensitivity of some species and varieties of quinoa has not been fully evaluated. It is advisable to treat a small number of plants to ascertain their reaction before treating the whole crop.

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

CROP	WEEDS	STATE	RATE	CRITICAL COMMENTS
Wheat, barley, triticale and canola <sup>1</sup>	Annual ryegrass, Wireweed, Phalaris spp, Fumitory, Sand fescue ( <i>Vulpia fasciculata</i> ), Winter grass ( <i>Poa annua</i> ), Paradoxa grass (Canary grass) ( <i>Phalaris paradoxa</i> ), Corn gromwell (Sheepweed) ( <i>Buglossoides arvensis</i> ), Rough poppy ( <i>Papaver hybridum</i> )  Suppression Soil Surface - Wild oats, Brome grass ( <i>Bromus diandrus</i> ), Silver grass ( <i>Vulpia bromoides</i> ), Barley grass ( <i>Hordeum leporinum</i> ), Cereal oats ( <i>Avena sativa</i> ), Three-Cornered Jack (Double gee) ( <i>Emex australis</i> ), Caltrop (Bullhead & Yellow vine) ( <i>Tribulus terrestris</i> ), Yellow burr weed ( <i>Amsinckia</i> spp), Dead nettle ( <i>Lamium amplexicaule</i> ), Speedwell ( <i>Veronica</i> spp)	WA, SA, Vic, NSW, Qld, Tas <sup>2</sup> only	1.5 - 3 L/ha	Use only with knife/blade points and press-wheels - refer to the Incorporation Table point 13 for method of incorporation. Use higher rates on light sandy and sandy loam soils. <b>DO NOT use on heavy soils.</b> Use higher rates for heavier stubble coverage and high weed density situations. Stubble coverage above 40 - 50% ground cover can reduce weed control below acceptable levels. Suppression of Brome grass and Barley grass may be reduced in medium to high weed density situations. Higher rates are likely to provide improved suppression of Brome grass, Wild oats, Cereal oats, Barley grass and Silver grass. Control of deep germinating/late germinating weeds may be reduced.  To maintain crop safety attention to sowing speed and soil throw is required and in cereals. <b>Avoid throwing treated soil into adjacent sowing furrows.</b> This is especially critical at higher use rates. <b>Avoid sites that water log or where furrow walls may collapse as crop establishment &amp; vigour may be reduced.</b> 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 winter temperatures and high weed seed densities. These factors individually or combined may reduce final weed control. Avoid sowing sensitive crops into areas treated with 2 - 3 L/ha if dry or drought conditions have persisted since application. <sup>1</sup> Canola variety 44C73 has shown some heightened sensitivity and therefore higher rates should be used with caution when sowing this variety. <sup>2</sup> <b>DO NOT</b> 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.
Wheat, barley, triticale and canola <sup>1</sup>	Annual ryegrass, Wireweed, Phalaris spp, Fumitory, Wild oats, Cereal oats, Sand fescue ( <i>Vulpia fasciculata</i> ), Silver grass ( <i>Vulpia bromoides</i> ) Winter grass ( <i>Poa annua</i> ), Paradoxa grass (Canary grass) ( <i>Phalaris paradoxa</i> ), Corn gromwell (Sheepweed) ( <i>Buglossoides arvensis</i> ), Rough poppy ( <i>Papaver hybridum</i> )  Suppression Soil Surface - Brome grass ( <i>Bromus diandrus</i> ), Barley grass ( <i>Hordeum leporinum</i> ), Three-Cornered Jack (Double gee) ( <i>Emex australis</i> ), Caltrop (Yellowvine & Bullhead) ( <i>Tribulus terrestris</i> ), Yellow burr weed <i>Amsinckia</i> spp), Dead nettle ( <i>Lamium amplexicaule</i> ), Speedwell ( <i>Veronica</i> spp)	WA, SA, Vic, NSW, Qld, Tas <sup>2</sup> only	1.5 - 2 L/ha plus 1.6 - 2 L/ha Avadex® Xtra	Use only with knife/blade points and presswheels - refer to the Incorporation Table point 13 for method of incorporation. Use higher rates on light sandy and sandy loam soils. <b>DO NOT use on heavy soils.</b> Avoid soils, which are non-wetting or are likely to become clumpy or cloddy as they may suffer reduced weed control. Use higher rates for heavier stubble coverage and high weed density situations. Stubble coverage above 40 - 50% ground cover can reduce weed control below acceptable levels. Suppression of Brome grass and Barley grass may be reduced in medium to high weed density situations. Higher rates are likely to provide improved control levels of Brome grass, Wild oats, Cereal oats, Barley grass and Silver grass. Control of deep/late germinating weeds may be reduced. Insufficient incorporation of Avadex® Xtra will reduce Wild oat control. Control may be poor in the first years of practising no-till/min till.  To maintain crop safety attention to sowing speed and soil throw is required. <b>Avoid throwing treated soil into adjacent sowing furrows.</b> This is especially critical at higher use rates and in cereals. <b>Avoid sites that water log or where furrow walls may collapse as crop establishment &amp; vigour may be reduced.</b> Incorporate within 6 hours to ensure the effectiveness of Avadex® Xtra is retained.
Chickpeas	Annual ryegrass, Wireweed, Phalaris spp, Fumitory	WA only	1.25 - 1.7 L/ha plus 1.1 kg/ha of a 900 g/kg simazine product	Incorporate as per Incorporation Table point 13.

### 3. VEGETABLES, ORCHARDS, VINEYARDS, OIL TEA TREE, INDUSTRIAL HEMP, HERBS AND SPICES

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 (Bullhead, Yellow vine), Crab grass, Mossman River grass (Innocent grass), 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 (Urochloa)	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 points 3, 4 or 5 for method of incorporation.		
Direct Seeded Only Broccoli, Brussels sprouts, Cabbage		Vic, Qld only	1.2 L/ha	1.7 L/ha	2.3 L/ha			
Peppers (including capsicum, chillies and paprika), Eggplant								
Cauliflower								
Carrots		All States	1.2 L/ha	1.5 L/ha	1.7 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 the ground. Refer to Incorporation Table point 8 or 9 for method of incorporation.	
Chicory		Vic only						
Green beans		All States						
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 the ground. Trif 480 must be incorporated into the soil within 4 hours of application. Refer to Incorporation Table points 8 or 9 for method of incorporation.			
Duboisia	All states	1.2 L/ha	1.7 L/ha	2.3 L/ha	Apply between 4 weeks and just prior to sowing. Apply by boom spray in a spray volume of 70 - 450 L/ha depending on soil type. Refer to Incorporation Table point 3, 4 or 5 for method of incorporation. Do not apply more than one application per crop.			
Swedes and turnips	1.4 L/ha				1.7 L/ha	2.3 L/ha		Broadcast spray to the soil surface between 4 weeks prior to, and just before sowing, using calibrated boom sprayer or similar equipment. Trif 480 must be incorporated into the soil within 4 hours of application using either a rotary hoe or disc technique. Apply a maximum one application per crop using spray volume between 70 - 450 L/ha.
Parsnips								Winter grass ( <i>Poa annua</i> )
Oil tea tree	Annual thistles, Barnyard grass, Creeping oxalis, Fat hen, Geranium, Needle burr, Potato weed, Red shank, Sowthistle, Wireweed	1.2 L/ha	1.7 L/ha	2.3 L/ha	Pre-sowing: apply one application before weeds emerge to control annual grasses and broadleaf weeds and incorporate into the top 5 cm of soil prior to sowing, OR Post-planting: apply one application before emergence, with rainfall or irrigation to closely follow to achieve effective incorporation into soil. Use suitable ground application equipment. Ensure equipment is properly calibrated. Use lower rates when short residual control is required. Increase the application rate when longer residual control is required. The sensitivity of some species and varieties has not been fully evaluated. Test a small number of plants before applying to the whole crop.			
Industrial hemp	Annual ryegrass, Barnyard grass, Caltrop (bullhead, yellowvine), Crab grass, Corn gromwell, Fescue, Fumitory spp., Mossman river grass (Innocent grass), Paradoxa grass (Canary grass), Phalaris spp., Pigweed, Redroot (Amaranthus), Redshank (Prince of Wales feather), Rough poppy, Summer grass, soil surface wild oats, Winter grass, Wireweed (Hogweed) From seed only: Columbus grass, Guinea grass, Johnson grass, Liverseed grass (Urochloa)	1.2 L/ha	1.7 L/ha	2.3 L/ha				

<p><b>Culinary herbs:</b> Basil, Bay leaves, Borage, Chives, Coriander, Dill, Fennel, Lemon balm, Lemon grass, Kaffir lime leaves, Marigold flowers, Marjoram (oregano), Mints, Nasturtium leaves, Parsley, Rosemary, Sage, Salad burnett, Sorrel, Tarragon, Thyme.</p> <p><b>Root Herbs:</b> Galangal</p> <p><b>Leafy vegetables:</b> Rucola (rocket), Chervil, Mizuna</p> <p><b>Teas:</b> Lemon verbena</p> <p><b>Spices:</b> Turmeric</p> <p><b>Edible flowers:</b> Dianthus, roses</p>	<p>Annual ryegrass, Barnyard grass, Canary grass, Caltrop (Bullhead, Yellow vine), Crab grass, Mossman River grass (Innocent grass), Pigweed, Redroot (Amaranthus), Redshank (Prince of Wales feather), Summer grass, soil surface Wild oats, Winter grass, Wireweed (Hogweed)</p> <p>From seed only: Columbus grass, Guinea grass, Johnson grass, Liverseed grass (Urochloa)</p>	All states	1.2 L/ha	1.7 L/ha	2.3 L/ha	<p>Apply one pre-emergence (of weeds) treatment prior to sowing and incorporate into the top 5 cm of soil. Use suitable ground application equipment. Ensure equipment is correctly calibrated. Use lower rates of Trif 480 when short residual control is required. Increase the rate when longer residual control is required. Rotate herbicide mode of action groups with and across growing seasons. The sensitivity of some species and varieties of the crops to be treated have not been fully evaluated. It is advisable to treat a small number of plants to ascertain their reaction before treating the whole crop.</p>
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**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**