

**CAUTION**

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

**Atradex<sup>®</sup> WG Herbicide**

ACTIVE CONSTITUENT: 900 g/kg ATRAZINE

**GROUP C HERBICIDE**

For selective annual grass and broadleaf weed control as per the directions for use table.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USING THIS PRODUCT

Nufarm Australia Limited  
ACN 004 377 780  
103-105 Pipe Road, Laverton North Victoria 3026  
Tel: (03) 9282 1000  
nufarm.com.au

APVMA Approval No.: 45774/101935

Contents: 10kg, 15kg

**STORAGE AND DISPOSAL**

Store in the closed, original container in a dry, cool, well-ventilated area, out of direct sunlight. Shake bag contents into spray tank until the bag is empty. DO NOT dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling break, crush or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm 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 products.

**SAFETY DIRECTIONS**

Avoid contact with eyes and skin. DO NOT inhale dust or spray mist. When preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), a washable hat and elbow length PVC 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.

**FIRST AID**

If poisoning occurs, contact a doctor or Poisons Information Centre Phone: Australia 131126.

**ADDITIONAL STATEMENTS (WHS REGULATIONS 2011)**

**Causes skin irritation. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure.** Wear protective gloves, clothing, eye and face protection. Contaminated work clothing should not be allowed out of the workplace. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

**SAFETY DATA SHEET**

For further information refer to the Safety Data Sheet (SDS), which can be obtained from your supplier or from the Nufarm website – [nufarm.com.au](http://nufarm.com.au)

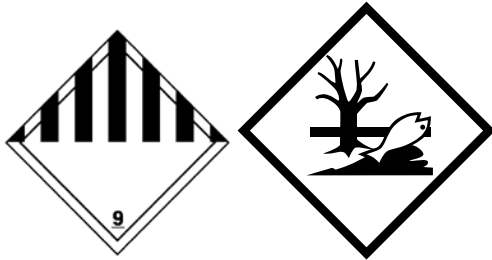
In case of emergency: Phone 1800 033 498 Ask for shift supervisor. Toll free 24 hours.

**CONDITIONS OF SALE**

"Any provisions or rights under the Competition and Consumer Act 2010 or relevant state legislation which cannot be excluded by those statutes or by law are not intended to be excluded by these conditions of sale. Subject to the foregoing, all warranties, conditions, rights and remedies, expressed or implied under common law, statute or otherwise, in relation to the sale, supply, use or application of this product, are excluded. Nufarm Australia Limited and/or its affiliates ("Nufarm") shall not accept any liability whatsoever (including consequential loss), or howsoever arising (including negligence) for any damage, injury or death connected with the sale, supply, use or application of this product except for liability which cannot be excluded by statute."

Atradex<sup>®</sup> trade mark owned or used under license by Nufarm Australia Ltd.

BN / DOM / Barcode / Net Contents: 10kg



ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS ATRAZINE)
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UN No: 3077
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PACKING GROUP: III
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HAZCHEM: 2Z
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IN AN EMERGENCY
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DIAL: 000
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POLICE OR FIRE BRIGADE
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IN AN EMERGENCY, SPECIALIST ADVICE
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NUFARM AUSTRALIA LIMITED 1800 033 498
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**"NOTE: IMPORTED PRODUCT 5L/5KG OR LESS – DG CLASS 9 MARKING ONLY REQUIRED ON SHIPPER LABEL."**

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<b>GROUP</b>	<b>C</b>	<b>HERBICIDE</b>
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BEFORE USING PRODUCT READ DIRECTIONS ON OUTER PACK AND ATTACHED LEAFLET. SALE OF THIS BAG, EXCEPT IN OUTER PACK IS ILLEGAL.

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For selective annual grass and broadleaf weed control as per the directions for use table.

READ COMPLETE DIRECTIONS FOR USE BEFORE USING THIS PRODUCT.

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APVMA Approval No.: 45774/106145

### DIRECTIONS FOR USE:

#### RESTRAINTS:

DO NOT use as a pre-emergent spray on light sandy soils.

DO NOT use on weeds over 4cm tall.

DO NOT apply to waterlogged soil.

DO NOT apply if heavy rains or storms that are likely to cause run off are forecast within two days of application.

DO NOT irrigate to the point of run off for at least two days after application.

DO NOT use a pre-emergence application in Sorghum, Broom millet or Saccaline during the wet season in the northern irrigation areas of Western Australia.

TT Canola: DO NOT use or apply this product post-emergence on raised beds or where furrows have been created in soil for the purposes of holding or channeling water.

DO NOT apply product to any drainage line. Drainage lines show evidence of the action of periodically flowing water (for example, gravel, pebble, rock or sand bed, scour hole or nick point) and/or incised channel at least 30cm deep.

DO NOT handle, mix, apply or conduct testing operations in areas susceptible to run-off where drainage results in rapid entry into waterways, particularly where no specific and effective action has been taken to prevent run-off into waterways. These areas may include areas mounded perpendicular to the contour, roads, access tracks, snig tracks, and compacted log dumps.

#### SOIL MOISTURE

The product requires rainfall or irrigation to move it down through the soil into the weed root zone to make it effective. Sufficient rain or irrigation to thoroughly wet the soil through the weed zone should occur or be made within 10 days after spraying.

Situation & Crop	Weeds Controlled	State	Rate	Critical Comments
Canola – (Triazine Tolerant varieties only) Pre emergence or post sowing pre emergence only	Capeweed, Charlock, Clover, Corn gromwell, Doublegee, Fumitories, Geraniums, Ivy-leaf speedwell, London rocket, Mustards, Turnips, Paterson's curse, Shepherd's purse, Silver grass (Vulpia). Suppression of Annual Ryegrass, Barley grass, Brome grass, Wild oats and Wild radish	All States	1.1-2.2 kg/ha	<i>This use is subject to an Integrated Weed Management Strategy for the use of triazine herbicides in triazine tolerant (TT) canola. See General Instructions: Integrated Weed Management Strategy for TT-Canola.</i>  Can be applied up to a week before sowing or post-sowing pre-emergence (ideally incorporated by harrows). For best results, apply to bare moist soil, either immediately before seeding or as a pre-emergence treatment at or within 7 days of planting. Sufficient rainfall (20-30mm) to wet the soil through the weed root zone is necessary within 2-3 weeks of application. Application should not be made to ridged or excessively cloddy soil. When applied before seeding, incorporate to a depth of 5cm.

Situation & Crop	Weeds Controlled	State	Rate	Critical Comments
Canola - (Triazine Tolerant varieties only) post-emergence application	Annual Ryegrass (1-2 leaf stage only), Mustards, Wild radish, Turnips,	All States	555g-1.1kg/ha	<i>This use is subject to an Integrated Weed Management Strategy for the use of triazine herbicides in triazine tolerant (TT) canola. See General Instructions: Integrated Weed Management Strategy for TT- Canola.</i>  Apply to moist soil when weeds are actively growing. The addition of 0.5-1%v/v of crop oil will enhance post emergence activity. <b>Cold water:</b> Under cold water conditions (10°C or less), use Hasten* as a crop oil. <b>DO NOT</b> apply more than one post-emergence application.
Sorghum, Broom millet, Saccaline and Forage Sorghum -Dryland	Amaranths, Annual ground cherry, Barnyard grass, Blackberry nightshade, Black bindweed (Climbing buckwheat), Bladder ketmia, Burrs, Caltrop, Cobbler's peg, Common sowthistle, Common thornapple, Crowsfoot grass, Dwarf narigold, Fat hen, Love grass, Mintweed, Parthenium weed, Pigeon grass, Pigweed, Plains grass, Potato weed, Prickly paddy melon, Sesbania pea, Sunflower, Spring grass, Summer grasses, Wild oats, Wireweed	All States	2kg/ha	<b>Pre-plant or Pre-emergent only:</b> Use this technique where grasses are likely to be the major problem.
			2kg/ha followed by 1.3kg/ha	<b>Pre-plant or Pre-emergent followed by a Post-emergent application:</b> Use this technique where long term weed control is required because of heavy rainfall or prolonged wet conditions following the initial application; or because dry weather follows sowing and spraying and weed and grass growth occurs.
			2-2.5kg/ha	<b>Post-emergent only:</b> Use the lower rate where only a broadleaf weed problem occurs and the higher rate where grasses are the major problem. Add a non-ionic surfactant.
Sorghum, Broom millet, Saccaline and Forage Sorghum -irrigated	As above.	All States	1.7kg/ha followed by 1.4-1.6kg/ha	<b>Pre-plant or Pre-emergence followed by a Post-emergence application</b> (See General Instructions): Use the lower rate on medium textured soils and the higher rate where grasses are the major problem or on heavy soils.
	Black bindweed (Climbing buckwheat), Cobbler's peg, Sesbania pea, Sunflowers, Wild oats		NSW, Vic, SA, WA only	2.5-3.3kg/ha
Sorghum, Broom millet, Saccaline and Forage Sorghum -Irrigated & Dryland	Black pigweed, Mintweed	Qld only	1.3kg/ha	<b>Pre-plant, Pre-emergence or Post-emergent only:</b> Apply when weeds are young (4-6 true leaves) and actively growing.
Maize & Sweet Corn - Irrigated & Dryland	Amaranths, Annual ground cherry, Barnyard grass, Blackberry nightshade, Black bindweed (Climbing buckwheat), Bladder ketmia, Burrs, Caltrop, Cobbler's peg, Common sowthistle, Common thornapple, Crowsfoot grass, Dwarf marigold, Fat hen, Love grass, Mintweed, Parthenium weed, Pigeon grass, Pigweed, Plains grass, Potato weed, Prickly paddy melon, Spring grass, Summer grass, Sunflower, Wild oats, Wireweed	All States	2.5-3.3kg/ha	<b>Pre-plant, Pre-emergence or Post-emergent application:</b> Use the lower rate where broadleaf weeds are the major problem and the higher rate where grasses are the major problem or on heavy soils. <b>Post-emergent application:</b> Add Agral* wetting and spreading agent (See Application).

Situation & Crop	Weeds Controlled	State	Rate	Critical Comments
Maize & Sorghum	Black pigweed	Central Qld only	1.2kg/ha	Pre-emergence
			350g or 1.2kg/ha	<b>Post-emergence:</b> Use lower rate for seedlings (2 true leaves). For plants up to 3cm in diameter use higher rate. Add Agral* wetting and spreading agent (See Application).
	Thornapple ( <i>Datura</i> spp.) & other Broadleaf weeds including Annual ground cherry, Bladder ketmia, Caltrop, Bellvine, Mintweed, Noogoora burr, Wild gooseberry, Pigweed, Black pigweed, Amaranthus spp., Sesbania pea, Wandering Jew	Qld, NSW only	830g-1.1kg/ha plus 500-700mL/ha Tordon 75-D	Use the lower rate when weeds are small and actively growing. Use the higher rate for larger weeds or when plants are not growing actively. Spray when the crop has 4-6 fully expanded leaves and secondary roots have developed. DO NOT add surfactants or crop oil. If rotating to Winter cereal crops DO NOT apply this tank mixture within 6 months of the expected sowing date. For other crops or situations observe plant back information on the respective product labels.
Sorghum	Parthenium weed	Qld only	3.3kg/ha	Apply as a pre-emergent blanket spray. Add 150mL Nufarm Activator® to each 100L spray.
			1.1kg/ha & 500mL/ha Crop Care 2,4-D Amine 500	Post-emergence
Lucerne - established (more than one year old)	Mintweed	All States	600g/ha	Apply when the first germination of mintweed seedlings are 5-8cm high and actively growing. Grazing prior to spraying improves efficiency. DO NOT graze for 14 days after spraying for maximum result. Using the low volume boom spray apply 140-170L spray mixture per hectare.
Sugar cane	Giant Sensitive Plant	Qld, WA only	2.2-3.3kg/ha	Apply when soil is moist. Avoid spraying weeds under stress. Apply by ground rig only and obtain good cover of target weeds. Use high rates towards the higher end of the range where heavy soil or high trash levels are present. Use higher rates for grasses. Approximate period of weed control: 2.2kg - up to 4 weeks. 3.3kg - up to 10 weeks. A pre-emergent application is preferred for grasses. Control of emerging broadleaf weeds: Where plants are large or conditions dry, 1L of 2,4-D amine/ha should be added. If grasses are a problem this product should be applied prior to weed emergence. If emerged grasses are present add Shirquat® 250 at 1.2-1.7L/ha.
	Barnyard grasses, Blue top, Borreria (Square weed), Budda pea, Cobbler's pegs, Crowsfoot grass, Flannel weed, Paddy's lucerne (Common sida), Pigweed, Sesbania, Sida retusa, Spiny spider flower (Wild rose), Stinking passion vine, Summer grasses, Sweet briar, Thickhead, Vines	Qld, WA and NSW only		
	Bellvine, African star grass, Barnyard grass, Billygoat weeds, Blue top, Chinese burr, Crowsfoot grass, Cupid's flower (Star of Bethlehem), Gambia pea, Green summer grass, Mossman river rras, Rattle pods, Summer grass		3.3kg/ha plus 4L/ha of Viking® in sufficient water for thorough coverage.	Apply as a pre-emergent or early post-emergent application to both crop and weeds. If weeds and grasses are present at time of application, these should be actively growing and not exceed the 3-4leaf stage. Aim to apply onto moist soil and when rain is likely to occur within 10 days of application. Application may be as either a band or blanket spray. When applying after the cane has emerged, use a directed spray to minimise contact of the spray with the cane plants. Refer to incorporation in general instructions. <b>Warning:</b> Some phytotoxicity may be observed in Q90.

Situation & Crop	Weeds Controlled	State	Rate	Critical Comments
Lupins – Weed free Seedbed	Capeweed, Turnip, Wild radish, Doublegee, Clovers and Medics, Mustard, Wireweed. Suppression of Annual Grass Weeds.	WA only	280-560g/ha plus 500mL-1L/ha Crop Care Simazine Flowable or 280-560g/ha Simagranz®.	Apply to bare moist soil immediately before or at seeding. Application should not be made to ridged or excessively cloddy soil. Incorporation by the sowing operation should not exceed 5cm. Sufficient rainfall (20-30mm) to wet the soil through the weed root zone is necessary within 2-3 weeks of application. Results can be variable if seasonal conditions are dry prior to sowing and lupins are sown into a dry or low moisture seedbed. Apply a maximum of 930g/ha of the mixture on yellow sands. Apply 1.2kg/ha on all other soil types. <b>N.B.</b> Some early crop phytotoxicity maybe observed particularly on yellow sands carrying native pear and pine vegetation. <b>Caution:</b> DO NOT use on white or grey sands.
Eucalypt and Pine plantations	Common sowthistle, Mouse eared chickweed, Sand brome, Silvergrass, Wild oats, Yorkshire fog grass	All states	5-8.8kg/ha	<b>Pre-planting:</b> Graze the area heavily and apply by boom spray or aircraft no more than two weeks before planting. <b>Post-planting:</b> Apply by boom spray either immediately after or within one month of planting. When applying by aircraft, the pines must be at least one month old. Application must be made before the Spring flush commences. Use rates towards the lower end of the range where broadleaf weeds are the major problem and rates towards the higher end of the range where grasses are the major problem. Use up to 8.8kg/ha on clay loams and heavier textured soils. For sandy soils and soils described as highly erodible, apply a maximum of 5kg/ha. DO NOT apply with a knapsack sprayer.
Pinus Radiata Plantation	Wild oats, Silver grass, Rye grass, Yorkshire fog grass, Sand brome, Mouse ear chickweed, Capeweed, Clovers, Sow thistle seedlings	Vic, SA, WA, Tas, NSW only	1.6–2.2kg/ha plus 5.6–8L/ha Amitrole T	Pre-planting or Post-planting: Spray to pine seedlings. Use the higher rate where grasses are a major problem. Preferably apply as a strip, rather than a blanket application. Method of application – refer application table.
Grass Seed Crops (Established stand of Sirocco, Phalaris, Demeter fescue, & Currie cocksfoot) - Seedling Signal Grass & Panicum Maximum	Broadleaf weeds, Brome grasses, Crowsfoot grass, Feathertop, Love grass, Pigeon grasses, Rhodes grass, <i>Setaria</i> spp.	Qld only	2.5-3.3kg/ha	<b>Pre-emergent:</b> Apply at or immediately after planting, preferably to a moist soil, and before crop and weeds germinate. Use the lower rate on Panicum maximum seed crops and the higher rate on Signal grass when grasses are likely to be the major problem. Guinea grass, Panics and Green Summer grasses ( <i>Brachiaria</i> spp.) are not controlled. <b>Warning</b> – Damage can occur to Panicum maximum when application is made under cool, dry conditions. <b>NOTE:</b> When used in Signal grass and Panicum maximum user accepts all responsibility should any damage occur.
Seedling Ryegrass, Seed Crop	Winter grass, Toad rush	Vic only	480-550g/ha	Use the lower rate at 2-3 leaves and the higher rate at early tillering.
	Winter grass, Toad rush, Broadleaf weeds		550g/ha plus 500mL/ha MCPA 500 & 400mL/ha Dicamba	Use at the tillering stage.
Established Ryegrass Seed Crops	Winter grass, Toad rush, Loosetrife, Sorrel, Barley grass, Docks, Soft brome, Silver grass.	Vic only	830g-1.1kg/ha	Apply after good Autumn rains have fallen and conditions are becoming cooler - around late May to mid-June. - graze heavily prior to application. <b>Note:</b> - Some crop damage may occur on sandy soils - if crop water stressed then damage may occur. - DO NOT apply Nitrogen prior to spraying.

Situation & Crop	Weeds Controlled	State	Rate	Critical Comments
Fallow Area Maintenance (Prior to sowing Wheat, Peas, Lupins)	Broadleaf weeds and grasses	Vic only	650-870g/ha	Apply late July-mid September for May-June sowing. Use the higher rate for a 14 month fallow - apply in Feb/April before Autumn rains.
Maintenance of fallow areas prior to planting a Sorghum crop in a conservation tillage system	Amaranths, Annual ground cherry, Barnyard grass, Black bindweed (Climbing buckwheat), Blackberry nightshade, Bladder ketmia, Burrs, Caltrop, Cobbler's pegs, Common thornapple, Crowsfoot grass, Dwarf marigold, Fat hen, Love grass, Mintweed, Parthenium weed, Pigeon grass, Pigweed, Plains grass, Potato weed, Prickly paddy melon, Sesbania pea, Spring grass, Summer grass, Wireweed	Qld, NSW only	2-3.3kg/ha	<b>Pre-plant:</b> Apply to moist soil or when rain is imminent and prior to the germination of weeds and grasses, or as a tank mixture with a specific knockdown herbicide if weeds and grasses are present. Use the lower rate when short-term control of weeds and grasses is required or where a wheat crop will follow sorghum in the rotation. Use the higher rate when longer term control of weeds and grasses is required.
Roadside and Rights of Way	Parthenium weed	Qld, NSW & NT only	3.3kg/ha	<b>Pre-and Post-emergent:</b> Apply to moist soil, following germinating rains and when further follow up rain is imminent. Where germination has occurred, ensure application is made to seedling plants.

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

#### WITHHOLDING PERIODS:

Harvest

*All Crops:* NOT REQUIRED WHEN USED AS DIRECTED.

Grazing

*Canola:* Pre-emergent application:

DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 15 WEEKS AFTER APPLICATION.

*Canola:* Post-emergent application:

DO NOT GRAZE OR CUT FOR STOCK FOOD UNTIL 6 WEEKS AFTER APPLICATION.

*Other Crops (except canola):*

DO NOT APPLY TO AREAS THAT WILL OR MAYBE GRAZED OR CUT FOR STOCK FOOD WITHIN 28 DAYS AFTER APPLICATION.

#### METHOD OF APPLICATION TABLE:

*Pinus radiata* Plantations

Type of Application	Critical Comments
Pre-planting	Graze area heavily and apply the tank mixture no more than 2 weeks before planting.
Post-planting	Apply tank mixture either immediately after or within one month of planting. Application must be made before the Spring commences. Avoid spraying the pine seedlings by using directed spray.

#### GENERAL INSTRUCTIONS

Atradex is a pre and post emergent herbicide that controls weeds from seed and weed seedlings. However, established perennial species, large annuals, and large broadleaf weeds are not satisfactorily controlled at the rates recommended. It acts mainly through root absorption, its effectiveness depends on the occurrence of control rainfall or irrigation to move it down into the weed zone. Duration and effectiveness of control depends on the amount of chemical applied, soil type, rainfall and particular weed species.

The maximum rate of atrazine application in all crops except plantation forestry is limited to an amount of product equivalent to 3kg a.i. atrazine/ha per year. DO NOT exceed this limit, especially when applying an atrazine herbicide post-emergence, where an atrazine herbicide has been applied pre-emergence.

The maximum rate of application in plantation forestry is an amount of product equivalent to 4.5kg a.i. atrazine per year in sandy soils and those defined as highly erodible, and product equivalent to 8kg a.i. atrazine/ha per year in clay loam and heavier textured soils.

#### INTEGRATED WEED MANAGEMENT STRATEGY FOR TT CANOLA

The use of this product in TT canola is subject to an Integrated Weed Management Strategy for the use of triazine herbicides in TT canola. The Strategy encompasses:

- Integrated Weed Management;
- the specific management of crop plant volunteers and outcrossing to other plants; and
- triazine herbicide residue management (agronomic and environment).



Compliance with registered label directions and adoption of the principles outlined in the Strategy will assist with implementation of crop management practices that minimise the development of herbicide resistance in treated weeds; reduce the levels of triazine residues in the environment; and manage volunteer plants and outcrossing.

Copies of the Strategy are available from a Nufarm Australia Limited representative or by contacting (03) 9282 1000.

It is advised that consultation be undertaken with an appropriate agronomist, consultant or Departmental adviser prior to the use of Atradex WG Herbicide on TT Canola.

#### To minimise herbicide resistance:

- Avoid dry sowing in heavily weed infested paddocks. Wait for a weed germination after the opening rains in weedy paddocks. Use a pre-plant knockdown or cultivation. No weeds should be allowed to survive at this stage.
- Adapt the weed control program to the anticipated weed spectrum and pressure:
  - Broadleaf weeds and Ryegrass:** Use (simazine 500g/L) or (atrazine 500g/L) plus trifluralin pre-emergence. A follow-up with a Group A herbicide (if ryegrass is susceptible) or atrazine 500g/L may be necessary.
  - Broadleaf Weeds only:** Use atrazine 500g/L post-emergence.
- DO NOT use atrazine 500g/L or simazine 500g/L if the area to be treated had a triazine herbicide applied to it last season.
- Watch for escapes, especially in paddocks with a long history of Group C herbicide use.
- DO NOT use Group C herbicides in consecutive years.

#### Resistant Weeds Reporting

Growers should collect plant or seed samples where weeds that are normally susceptible to atrazine and simazine may be resistant, get them tested and seek professional advice.

#### To avoid Triazine carry-over:

**On acid soils (pH less than 6.5)** - The maximum rate of atrazine 500g/L or simazine 500g/L or a combination of the two products to be applied to the crop during the growing season is 4L/ha.

**On alkaline soils (pH greater than 6.5)** - The maximum rate of atrazine 500g/L or simazine 500g/L or a combination of the two products to be applied to the crop during the growing season is 2L/ha.

**Post-emergence use** - It is recommended that atrazine 500g/L only be used, and at rates of 2L/ha or less, on both acid or alkaline soils.

#### RESISTANT WEEDS WARNING

GROUP	C	HERBICIDE
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Atradex Herbicide is a member of the triazines group of herbicides. Atradex has the inhibitor of photosynthesis at photosystem II mode of action. For weed resistance management Atradex is a Group C herbicide. Some naturally occurring weed biotypes resistant to Atradex and other Group C herbicides may exist through normal genetic variability in a 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 Atradex or other Group C herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Nufarm Australia Limited accepts no liability for any losses that may result from the failure of Atradex to control resistant weeds. Advice as to strategies and alternative treatments that can be used should be obtained from your local supplier, consultant, local Department of Agriculture, Primary Industries Department or a Nufarm Australia Limited representative. Any incidents of resistant must be reported to Nufarm Australia Limited. Phone (03) 9282 1000.

#### MIXING

DO NOT mix, load or apply within 20m of any well, sink hole or intermittent or perennial stream or river. This product readily mixes with water. Add required quantity to the spray vat with the tank filter mesh removed and the vat 50 to 75% full with water. The agitation system should be running during addition of the product and during the spraying operation. If left to settle, stir and re-suspend any settled material before starting pump and spraying product. Avoid drawing accumulated particles into outlet pipe. DO NOT pre-mix in a bucket as a paste. Wetting Agent: Add Agral at 125mL/100L or BS1000 at 75mL/100L of spray mixture when applying to emerged weeds as a foliar spray.

#### Incorporation (Pre-plant and at sowing application)

This product acts mainly by root absorption. Its effectiveness depends on the occurrence of rainfall or irrigation to move it down into the weed root zone. Sufficient rain or irrigation to thoroughly wet the soil through the weed root zone should occur or be made immediately after application to provide appropriate weed control. Delay in activation of the product may result in some weed growth. In flood or furrow irrigation situations complete and continued activation of the product may not occur due to a thin band of dry soil on the surface during or after irrigation. Mechanical incorporation after application, using light harrows to incorporate the product into the soil not more than 4cm deep is required to ensure the irrigation water activates the product. Always apply the product to an even unridged seedbed.

#### Method of application

Minimum volumes of spray mixture per hectare:

By aircraft: Pre-plant/pre-emergence application - 15L. Post-emergence application - 22L.

With aircraft application the need for good soil moisture at the time of application and follow up rain or irrigation within 10 days is most critical. DO NOT use human flaggers in aerial spraying, unless protected by engineering controls such as enclosed cabs.

By low volume boom: Pre-plant/pre-emergence application - 55L. Post-emergence application - 110L.

Application can be made as an overall or band treatment. Minimum band width should be 30cm.

#### TT Canola:

DO NOT apply to TT-canola by aircraft. Apply only with a low boom sprayer with a 60m buffer zone downwind of treated fields to natural or impounded lakes or dams, and a 20m buffer zone for any well, sink hole, intermittent or perennial stream. Apply only to areas where run-off is unlikely to occur or where run-off may be captured by farm earthworks.

#### Summer Crops

Heavy rains immediately following an application tend to result in excessive concentrations of herbicide in the seed furrow, thus encouraging possible crop injury. This is most likely to occur when a pre-plant or pre-emergence application is made using rates in excess of 2kg/ha. To avoid the likelihood of herbicide injury follow time of application (a), (b) or (d) listed below.

#### Time of application

(SORGHUM, MAIZE, BROOM MILLET, SACCALINE, SWEET CORN)

##### (a) PRE-PLANT APPLICATION - FOLLOWED BY A POST-EMERGENCE APPLICATION

Apply after establishment of the seed bed and up to two weeks prior to sowing. If using this technique on irrigated crops, application should preferably be made to moist soil. If applied to dry soil, lightly harrow to incorporate Atradex into the soil not more than 4cm deep. A post-emergence spray must be applied as soon as possible after the crop has emerged and developed 2 to 3 leaves.

##### (b) PRE-EMERGENCE APPLICATION – FOLLOWED BY A POST-EMERGENCE APPLICATION.

Apply at or immediately after planting and before crop and weeds emerge. Application should preferably be made to moist soil. If applied to dry soil, lightly harrow to incorporate Atradex into the soil not more than 4cm deep. If using this technique on irrigated crops, then a post-emergence spray must be applied as soon as possible after the crop has emerged and developed 2 to 3 leaves.

##### (c) PRE-EMERGENCE APPLICATION

Apply at or immediately after planting and before crop and weeds emerge. Application should preferably be made to moist soil.

**NOTE:** Applying the total amount of this product as a pre-emergence application increases the risk outlined in Crop Safety - Summer Crops, below.

##### (d) POST-EMERGENCE APPLICATION

Application must be made to seedling broadleaf weeds and grasses when they are not more than 1cm high. Normally the crop is then at the 2 to 3 leaf stage. For best results the soil should be moist and rain or irrigation should follow the application. If applied to dry soil, lightly harrow to incorporate Atradex into the soil not more than 4cm deep. Add Agral at the rate of 125mL/100L or BS1000 at the rate 75mL/100L of spray, for all post-emergence applications, or in sweet corn/maize 5.5L crop oil/ha.

**NOTE:** Should weeds develop after pre-plant or pre-emergence application, a shallow cultivation may assist the control. Avoid deep cultivation which may throw untreated soil over the sprayed areas as this may seriously reduce weed control.

#### Crop Safety - Summer crops

##### Sorghum, Broom millet, Saccaline:

Heavy rains immediately following an application tend to result in excessive concentrations of herbicide in the seed furrow, thus encouraging possible crop injury. This is most likely to occur when a pre-plant or pre-emergence application is made using rates in excess of 2kg/ha. To avoid the likelihood of herbicide injury use technique (a), (b) or (d) (See Time of application). In the northern irrigation areas of Western Australia, DO NOT use as a pre-emergence application during wet season.

##### Maize, Sweetcorn, Sorghum, Broom millet, Saccaline:

When sowing is made on the 'flat', avoid application to ridged soil.

**NOTE:** Pre-plant or pre-emergence applications are preferred where grasses are the major problem.

#### Warning:

When used in Signal grass and Panicum maximum, application of this product may cause damage and the user accepts all responsibility should any damage occur to the crop.

#### Precaution

DO NOT dispense atrazine via dust prone methods e.g. hand operated cranking handles. Only use with applicators specifically designed to dispense granular products with minimum dust e.g. Weed-A-Metre granular dispenser, the Swissmex manual applicator, the Forest Mac applicator.

#### Re-entry period

DO NOT enter treated areas without protective clothing until spray has dried.

#### PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or used containers. This product is very highly toxic to algae and aquatic macrophytes. DO NOT apply this product within 60m of natural or impounded lakes or dams. DO NOT use in channels or drains. DO NOT apply under meteorological conditions or from spraying equipment which could be expected to cause drift of this product or spray mix into adjacent areas, particularly wetlands, waterbodies or watercourses.

#### PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions or from spraying equipment which may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures, particularly wetlands, waterbodies or watercourses. DO NOT plant crops other than those recommended on this label for at least 6 months following treatments of this product at rates up to 1.4kg/ha and for 18 months following treatments of 1.4-3.3kg/ha. When rates exceed 3.3kg/ha plantings may not be possible for very long periods afterwards.



[spraywisedecisions.com.au](http://spraywisedecisions.com.au) is an online weather forecasting program and is recommended for use when planning your pesticide application.

#### STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well-ventilated area, out of direct sunlight. Shake bag contents into spray tank until the bag is empty. DO NOT dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling break, crush or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm 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 products.

#### SAFETY DIRECTIONS

Avoid contact with eyes and skin. DO NOT inhale dust or spray mist. When preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), a washable hat and elbow length PVC 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.

#### FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre Phone: Australia 131126.

#### ADDITIONAL STATEMENTS (WHS REGULATIONS 2011)

**Causes skin irritation. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure.** Wear protective gloves, clothing, eye and face protection. Contaminated work clothing should not be allowed out of the workplace. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

#### SAFETY DATA SHEET

For further information refer to the Safety Data Sheet (SDS), which can be obtained from your supplier or from the Nufarm website – [nufarm.com.au](http://nufarm.com.au)

**In case of emergency: Phone 1800 033 498** Ask for shift supervisor. Toll free 24 hours.

#### CONDITIONS OF SALE

"Any provisions or rights under the Competition and Consumer Act 2010 or relevant state legislation which cannot be excluded by those statutes or by law are not intended to be excluded by these conditions of sale. Subject to the foregoing, all warranties, conditions, rights and remedies, expressed or implied under common law, statute or otherwise, in relation to the sale, supply, use or application of this product, are excluded. Nufarm Australia Limited and/or its affiliates ("Nufarm") shall not accept any liability whatsoever (including consequential loss), or howsoever arising (including negligence) for any damage, injury or death connected with the sale, supply, use or application of this product except for liability which cannot be excluded by statute."

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