

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

TITAN

TRI-ALLATE 500 EC

HERBICIDE

ACTIVE CONSTITUENT: 500g/L TRIALLATE
SOLVENT: 471g/L HYDROCARBON LIQUID

GROUP **15** HERBICIDE

For the control of Wild Oats in Wheat, Triticale, Chickpeas, Barley, Peas, Linseed, Lupins, Canola (Rapeseed), Faba Beans and Safflower and for use alone and in mixtures with Trifluralin for control of a range of grass and broadleaf weeds in no-till/min-till cropping systems, pre-sowing or incorporated by sowing (IBS) as per the Directions For Use table.

APVMA Approval No.: 65474/125701

Pack Size: 20L; 110L; 1000L



TITAN AG Pty Ltd | ABN 57 122 081 574
15/16 Princes Street, Newport NSW 2106
Tel (02) 9999 6655 | Fax (02) 9999 0483
titanag.com.au

IN A TRANSPORT EMERGENCY
DIAL 000
POLICE OR FIRE BRIGADE

TRANSPORT AND HANDLING
NOT A DANGEROUS GOOD
ACCORDING TO THE AUSTRALIAN
DANGEROUS GOODS (ADG) CODE
FOR TRANSPORT BY ROAD AND RAIL

DIRECTIONS FOR USE

Restraint: DO NOT apply by aircraft

CROP	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Barley, Triticale, Wheat Chickpeas, Faba beans, Lupins, Peas Linseed, Canola, Safflower	Wild Oats	ALL STATES	1.6L/ha	<p>For use in full disturbance ('Conventional') seeding systems. Apply immediately prior to or up to 3 weeks before sowing to a friable seedbed under conditions which will allow for the incorporation of the product to a depth of 2 to 4cm with either a single or double pass of suitable Incorporation equipment (see Incorporation). A delay of 1 week between application and planting is recommended for Linseed.</p> <p>COMPLETE AND UNIFORM INCORPORATION OF TITAN TRI-ALLATE 500 EC HERBICIDE IS ESSENTIAL FOR WEED CONTROL.</p> <p>See GENERAL INSTRUCTIONS for details of incorporation. TITAN Tri-Allate 500 EC Herbicide may be used in crops undersown with legumes. For shallow-sown legume and oil seed crops, complete incorporation by cultivation to a depth of 5cm must be undertaken before planting. TITAN Tri-Allate 500 EC Herbicide may be tank mixed with TITAN Triasulfuron 750 WG Herbicide or TITAN Chlorsulfuron 750 WG Herbicide for control of Annual Ryegrass, Paradoxa Grass and certain broadleaf weeds prior to planting of wheat only. TITAN Tri-Allate 500 EC Herbicide may be tank mixed with TITAN Trifluralin 480 Selective Herbicide for control of Annual Ryegrass, Annual Phalaris, Paradoxa Grass, enhanced control of Wild Oats (emerging from top 1cm of seedbed) and Wireweed.</p> <p>DO NOT apply less than 1 week prior to planting of Wheat, Barley, Triticale and Linseed (DO NOT use the tank mix in QLD).</p> <p>Incorporation of this tank mix should be within 4-5 hours of application. Refer to the TITAN Trifluralin 480 Selective Herbicide label for incorporation details. Read and follow label instructions, restraints, plant-back periods and safety directions for tank mix products.</p>
Wheat, Barley, Triticale and Canola ¹	Annual Ryegrass (including Group D resistant biotypes) Suppression Soil Surface – Bromegrass (<i>Bromus diandrus</i>)	NSW, VIC, SA, TAS ¹ only	3L/ha	<p>For use in no-till/min-till Cropping Systems, Pre-Sowing or Incorporated by Sowing (IBS). Use only with knife/blade points and presswheels – refer to table 13 on TITAN Trifluralin 480 Selective Herbicide label for method of incorporation. Use the higher rate specified in the rate column on light sandy and sandy loam soils. Avoid soils which are non-wetting or are likely to become clumpy or cloddy as they may suffer reduced weed control. Use the higher rate specified in the rate column 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.</p> <p>Use the higher rate specified in the rate column in tank mixtures with TITAN Trifluralin 480 Selective Herbicide for control of group D resistant Annual Ryegrass and group A resistant Wild Oats. Higher rates are likely to provide improved control levels of Brome Grass, Wild Oats, Cereal Oats, Barley Grass and Silver Grass.</p> <p>Control of deep/late germinating weeds may be reduced. Insufficient incorporation of TITAN Tri-Allate 500 EC Herbicide will reduce Wild Oat control. Control of Annual Ryegrass may be poor in the first years of practising no-till/min-till. Where no-till/min-till has been practised for at least a few years, a high proportion of Wild Oat seeds may germinate near the surface. In these circumstances mixing TITAN Tri-Allate 500 EC Herbicide with TITAN Trifluralin 480 Selective Herbicide may enhance Wild Oat control. To maintain crop safety attention to sowing speed and soil throw is required. Avoid throwing treated soil into adjacent sowing furrows. This is especially critical at higher use rates and in cereals. Avoid sites that water log or where furrow walls may collapse as crop establishment and vigour may be reduced. Incorporate TITAN Tri-Allate 500 EC Herbicide alone and TITAN Tri-Allate 500 EC Herbicide + Bouncer tank mixtures within 48 hours of application and TITAN Tri-Allate 500 EC Herbicide + TITAN Trifluralin 480 Selective Herbicide tank mixtures within 24 hours of application to ensure the effectiveness of these treatments. The addition of Bouncer Herbicide may improve control of Group A and D resistant biotypes of Annual Ryegrass.</p> <p>1 DO NOT 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.</p>
	Wild Oats (including Group A resistant biotypes) Annual Ryegrass (including Group D resistant biotypes), Wireweed, <i>Phalaris</i> spp., Fumitory, Wild Oats (including Group A resistant biotypes), Cereal Oats, Sand Fescue (<i>Vulpia fasciculata</i>), Silvergrass (<i>Vulpia bromoides</i>), Wintergrass (<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 – Bromegrass (<i>Bromus diandrus</i>), Barleygrass (<i>Hordeum leporinum</i>), Three-cornered Jack (Doublegee) (<i>Emex australis</i>), Caltrop (Yellowvine & Bullhead) (<i>Tribulus terrestris</i>), Yellow Burr Weed (<i>Amsinckia</i> spp.), Deadnettle (<i>Lamium amplexicaule</i>), Speedwell (<i>Veronica</i> spp.)	NSW, QLD, VIC, SA, WA, TAS ¹ only	3.2L/ha 1.6-2.4L/ha plus 1.5-2.0L/ha TITAN Trifluralin 480 Selective Herbicide	

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



WITHHOLDING PERIODS

HARVEST: Not required when used as directed.

GRAZING:

WHEAT, BARLEY, TRITICALE AND CANOLA FORAGE, HAY AND FAILED CROPS: DO NOT graze or cut for stockfood for 12 weeks after application. Following observation of the 12 week withholding period, DO NOT send animals to slaughter that have consumed treated forage, hay and failed crops UNLESS they are first placed on clean feed for 28 days before leaving the farm. The clean feed interval does NOT apply to grazing of post-harvest stubble.

CHICKPEA, FABA BEAN, LUPIN, PEA, LINSEED AND SAFFLOWER FORAGE AND FODDER: DO NOT graze or cut for stock food for 13 weeks after application.

GENERAL INSTRUCTIONS

WEED CONTROL

TITAN Tri-Allate 500 EC Herbicide normally provides 6-8 weeks control of Wild Oats and Annual Ryegrass when the seedbed is moist during the emergence period. Under very dry soil surface (top 2cm) conditions, Wild Oats and Annual Ryegrass may not be controlled. Wild Oats may emerge between application and complete incorporation by sowing particularly if initial incorporation is provided by harrows. TITAN Tri-Allate 500 EC Herbicide may not control Wild Oats which have germinated at the time of application and incorporation if the top 2cm of soil is dry. TITAN Tri-Allate 500 EC Herbicide will not control emerged weeds.

CROP SAFETY

Reduced emergence of cereals may occur if seed is placed in treated soil layer. DO NOT plant cereal crops at greater than 5-7cm. Overspraying of headlands or corners may result in crop damage. On heavy clay soils, crop thinning may occur in wheel tracks.

Environmental conditions which adversely affect emergence or early crop growth, may predispose crops to injury, particularly where tank mixes with other pre-emergence herbicides are used. Read and follow label directions, restraints, plantback periods and safety directions for tank mix products.

SOIL PERSISTENCE AND FOLLOWING CROPS

Under prolonged and extremely dry conditions TITAN Tri-Allate 500 EC Herbicide may persist for several months. Damage to field oats and sorghum may occur.

GROUND SPRAYER APPLICATION: Use 40-100L/ha of water.

USE ONLY COARSE or larger spray quality.

Boom height must be set to ensure double overlap of nozzle patterns at the top of the weed canopy. Use the higher water rate when applying into stubble situations. Apply to soil in friable condition so that uniform incorporation of the product can be achieved to a depth of 2-4cm. The soil should be free of large clods (>75mm) and should not have crop or weed residue at a level which will interfere with the free flow of soil through planting equipment providing full soil disturbance. Emerged Wild Oats or Ryegrass should be controlled either by prior cultivation/application of a knockdown herbicide or by the tank mixing of a knockdown herbicide with TITAN Tri-Allate 500 EC Herbicide. A 50 mesh primary pressure filter and 80 mesh secondary pressure filter(s) are recommended. The use of in-line nozzle filters is not recommended.

Checklist:

- Have you cleaned/decontaminated your boom sprayer?
- Have you contacted your neighbour prior to spraying?
- Is your sprayer set-up correctly for the particular application?
- Check - boom calibration
 - at nozzle
 - nozzle choice
 - low drift/what spray quality
 - coarse or larger spray quality?
 - boom height
 - speed of intended application
 - water volume
- You must check, determine and record the weather conditions immediately prior to, and immediately after the spray application is made.
- Record - Temperatures
 - Relative Humidity
 - Delta T
 - Wind speed
 - Is there a temperature inversion?
- Night Spraying - Extra care is required to ensure that inversion conditions are not present. Use smoke generator to determine wind direction and presence of inversion conditions. For further information contact TITAN AG Pty Ltd.

MIXING INSTRUCTIONS

TITAN Tri-Allate 500 EC Herbicide is an Emulsifiable Concentrate which mixes readily with water. Ensure the spray tank is free of any residue of previous spray materials.

1. Fill the spray tank with clean water to one half of the required amount and start agitation. DO NOT use mechanical agitators as these may cause excessive foaming when herbicides are added.
2. Add TITAN Tri-Allate 500 EC Herbicide and mix thoroughly.
3. Add recommended herbicide additive/insecticide to the spray tank and mix thoroughly.
4. Top up tank to 95% of desired capacity then add the Titan Glyphosate product (if required) and the remaining water.
5. When TITAN ACTIV8 SURFACTANT is used, add near the end of the filling process to minimise foaming.
6. Always maintain adequate agitation during application and use the tank mix promptly.

INCORPORATION – Conventional systems Two pass incorporation provides superior weed control to single pass incorporation on heavier textured soils.

(i) TITAN Tri-Allate 500 EC Herbicide may be incorporated initially in a suitable cultivated seedbed with either heavy 5 row harrows e.g. Phoenix harrow, or tyned cultivator. Final incorporation with a combine or airseeder/cultivator is essential to provide for maximum weed control. Heavy tyned harrows or a rotary harrow should trail the planter or follow as a separate operation at an angle to the planter to complete incorporation. Ensure that the soil surface is left free of pronounced ridging.

(ii) On soils in friable condition, TITAN Tri-Allate 500 EC Herbicide may be incorporated with the planting operation only up to 24 hours following application onto a dry soil surface or up to 6 hours on moist surface soil. If TITAN Tri-Allate 500 EC Herbicide has been sprayed on dry soil, and it rains before incorporation is planned, the product must be incorporated within 6 hours to retain its herbicide effectiveness. Planting should be carried out with a combine or airseeder/cultivator which provides full soil disturbance. Heavy tyned harrows or a rotary harrow should trail the planter or follow as a separate operation to complete incorporation. Ensure that the soil surface is left free of pronounced ridging.

DO NOT operate incorporation equipment at greater than 5-7cm depth. Where soil is wet at planting, poor incorporation may result. For shallow-sown legume and oil-seed crops, complete incorporation by cultivation to a depth of 5cm must be undertaken before planting.

Note that point size should be matched to tyne spacing to avoid uneven incorporation. For example, a wideline seeder with 15cm tyne spacing should be fitted with unworn 15cm points. A combine with 9cm spacing should be fitted with an evenly worn set of 10cm points. Sweeps or other low profile points may not provide satisfactory incorporation.

COMPATIBILITY

TITAN Tri-Allate 500 EC Herbicide is compatible with TITAN Chlorsulfuron 750 WG Herbicide, TITAN Triasulfuron 750 WG Herbicide, TITAN Trifluralin 480 Herbicide, TITAN Glyphosate 360 Herbicide, TITAN Glyphosate 540 K Salt Herbicide, TITAN Trifluralin-Oryzalin 250 EC Selective Herbicide, TITAN Sulfosulfuron 750 WG Herbicide, TITAN Glyphosate 450 Herbicide.

RESISTANT WEEDS WARNING

TITAN Tri-Allate 500 EC Herbicide is a member of the thiocarbamate group of herbicides. TITAN Tri-Allate 500 EC Herbicide has the inhibition of lipid synthesis mode of action. For weed resistance management TITAN Tri-Allate 500 EC Herbicide is a Group 15 Herbicide. Some naturally occurring weed biotypes resistant to TITAN Tri-Allate 500 EC Herbicide and other Group 15 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 TITAN Tri-Allate 500 EC Herbicide or other Group 15 Herbicides. Since occurrence of resistant weeds is difficult to detect prior to use, TITAN AG Pty Ltd accepts no liability for any losses that may result from the failure of TITAN Tri-Allate 500 EC Herbicide to control resistant weeds.

Re-entry: DO NOT enter 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.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.

GROUP 15 HERBICIDE



PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Dangerous to fish. Very toxic to aquatic life. DO NOT contaminate streams, rivers or watercourses with TITAN Tri-Allate 500 EC Herbicide or used containers.

STORAGE AND DISPOSAL

20L: Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Triple rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted 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 bury empty containers in an approved waste management facility. If an approved waste management facility is not available, bury the containers below 500mm 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.

110L: Store in the original sealed Envirodrum in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the drum with water or any water or any other foreign matter. After each use of the product, please ensure the Micro Matic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the drum have been used, please return the empty drum to the point of purchase. The drums remain the property of TITAN AG Pty Ltd.

1000L: Store in the closed original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Storage must be secure so that contents cannot be tampered with. All locks and/or seals must be in order. If locks or seals are broken prior to initial use then the integrity of this product cannot be assured. If this occurs TITAN AG Pty Ltd should be notified immediately. This minibulk/bulk container is reusable and remains the property of TITAN AG Pty Ltd. DO NOT rinse empty container. Empty contents fully into application equipment. Close all valves and return to the point of supply for refill or storage. No other liquid, solid or pesticide product should be put into it. When empty return to TITAN AG Pty Ltd for cleaning, relabelling and refilling.

SAFETY DIRECTIONS

Harmful if inhaled or swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. DO NOT inhale vapour or spray mist. Avoid contact with eyes and skin. When opening the container and mixing and loading and preparing spray, wear cotton overalls buttoned to the neck and wrist, and a washable hat and elbow-length PVC gloves and goggles and half face-piece respirator. When using the prepared spray wear cotton overalls buttoned to the neck and wrist. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, goggles and respirator and if rubber wash with detergent and warm water, and contaminated clothing.

FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 131126; New Zealand 0800 764 766. If in eyes, immediately wash out with water. If swallowed, DO NOT induce vomiting. Avoid giving alcohol.

SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for TITAN Tri-Allate 500 EC Herbicide is available from TITAN AG Pty Ltd on request. Call Customer Service on (02) 9999 6655 or visit www.titanag.com.au

CONDITIONS OF SALE: TITAN AG Pty Ltd shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on TITAN AG's skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of TITAN AG Pty Ltd has any authority to add to or alter these conditions.

Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: Combustible liquid. Harmful if swallowed. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. Very toxic to aquatic life with long lasting effects. Precautionary Statements: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Specific treatment (see on this label). Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of water. Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. In case of fire: Use CO₂, powder or water spray to extinguish. Collect spillage. Store in a well-ventilated place. Store locked up. Dispose of contents/container in accordance with local/regional/national regulations.

