

DANGEROUS POISON

KEEP OUT OF REACH OF CHILDREN

CAN KILL IF SWALLOWED

DO NOT PUT IN DRINK BOTTLES

KEEP LOCKED UP

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

TITAN

PARAQUAT 250

HERBICIDE

ACTIVE CONSTITUENT: 250g/L PARAQUAT present as PARAQUAT DICHLORIDE

GROUP **22** HERBICIDE

For the control of certain grasses and broadleaf weeds as per Directions For Use.

FOR USE ONLY AS AN AGRICULTURAL AND HORTICULTURAL HERBICIDE.

THIS PRODUCT IS TOO HAZARDOUS TO BE USED IN THE HOME GARDEN.

APVMA Approval No.: 61869/RV2026

Pack Size: 20L, 110L, 200L, 1000L



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SL	Formulation Type Soluble Liquid Concentrate
IN A TRANSPORT EMERGENCY • DIAL 000 • POLICE OR FIRE BRIGADE	
	UN 3016 BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC (PARAQUAT, DICHLORIDE), ENVIRONMENTALLY HAZARDOUS PG: II HAZCHEM: 2X

DIRECTIONS FOR USE

Restraints:

DO NOT remove contents except for immediate use.

DO NOT continue to use if eye irritation or bleeding from the nose occurs.

DO NOT apply by aircraft, misting machines, or manually pressurised handheld equipment.

DO NOT apply by spraying equipment carried on the back of the user.

DO NOT use open mixing/loading equipment. Closed mixing and loading MUST be used.

DO NOT add wetter unless spraying at high volume. Where TITAN Paraquat 250 Herbicide is mixed with water at less than 400mL/100L of water, add 100mL TITAN Wetter 1000 Wetting Agent per 100L of spray.

DO NOT apply if heavy rains or storms are forecast within 3 days.

DO NOT spray plants which are waterlogged, under stress of any kind or covered with soil or dust.

DO NOT spray plants covered with heavy dew, but rain following spraying will not affect results.

DO NOT irrigate to the point of field run-off for at least 3 days after application.

DO NOT sow or cultivate for 1 hour after spraying but operations should commence within 7 days.

For small scale applications up to 6ha per day:

DO NOT apply using open cab equipment unless using a PF10 respirator.

For applications greater than 6ha per day:

DO NOT apply using open cab equipment. Enclosed cab applications MUST be used.

For hand spray applications:

DO NOT use hand wand sprays by spraying out of the window of a vehicle.

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at www.apvma.gov.au/spraydrift

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. The advisory buffer zones in the buffer zone table below provides guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are surface temperature inversion conditions present at the application site during the time of application. These conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

DO NOT apply by a boom sprayer unless the following requirements are met:

- Spray droplets not smaller than a MEDIUM spray droplet size category.
- Minimum distances between the application site and downwind sensitive areas (see 'Mandatory Buffer Zones' section of the following table titled 'Buffer Zones for Boom Sprayers') are observed.

Buffer Zones for Boom Sprayers						
Application rate	Boom height above the target canopy	Mandatory downwind buffer zones (metres)				
		Bystander areas	Natural aquatic areas	Pollinator areas	Vegetation areas	Livestock areas
Up to 560mL/ha	0.5m or lower	5	250	0	0	0
Up to 420mL/ha	0.5 m or lower	0	160		0	
Up to 280mL/ha	0.5 m or lower	0	100		0	
	1.0 m or lower	20	325		15	

CROP OR SITUATION	WEEDS CONTROLLED	STATE	RATE/ha	CRITICAL COMMENTS
Aid to cultivation to minimise cultivation and prepare a clean bed for sowing	Wild Oats at 2 to 5 leaf stage in autumn/winter	QLD, VIC, TAS, SA, NT only	600 to 800mL	Apply by ground boom only. Where cultivation follows spraying, it may commence 1 hour after spraying but should be completed within 7 days. Where heavy weed growth is present at spraying a better seed bed will result if cultivation is delayed 3 to 5 days. Pasture: Remains of old pasture should be reduced by heavy grazing. Remove stock 3 to 5 days before spraying to allow fresh growth.
		NSW, ACT only	600mL	
Rice	Annual grass and broadleaf weed control	QLD, NSW, NT only	800mL	Apply by ground boom only. Post-sowing, pre-crop emergence.
Spray topping to reduce seed set Chickpeas, Faba Beans, Field Peas, Lentils, Lupins	Annual Ryegrass	ALL STATES	400mL or 800mL	As an aid in managing Annual Ryegrass resistance. For use on escapes from a previous herbicide application in the current crop. Apply by ground boom only at the rate of 50-100L/ha. Spray with a calibrated boom spray raised to give double overlap at the level of the ryegrass seed heads. Spray the crop when the last Ryegrass seed heads at the bottom of the plant have emerged and the majority are at or just past flowering (with anthers present or glumes open) but before haying off is evident – usually October to November. Reduction in crop yield may occur especially if the crop is less advanced relative to the Ryegrass, that is if crops have a majority of green immature pods.
Peanuts Post-emergence in crop	<i>Datura</i> spp. (2 to 4 leaf)	QLD, NT only	400mL	Apply by ground boom only. Spray peanuts up to 7 to 8 leaf stage but before majority of plants are flowering. Foliage will be scorched following application, but plants recover rapidly. Apply in 200L to 250L/ha for thorough coverage of weed foliage. A dense canopy of weeds may reduce weed control due to shielding. Add 100mL Agral or 60mL TITAN Wetter 1000 Wetting Agent/100L of spray mix. DO NOT use alkaline or anionic wetting agents. DO NOT spray (on Peanuts) under extremely hot dry conditions when Peanuts are very small.
	Annual Ground Cherry (2 to 3 leaf), Apple-of-Peru (2 to 4 leaf), Milkweed (2 to 3 leaf)		600mL	
	Stagger Weed (2 to 3 leaf), Blue Heliotrope (2 to 3 leaf), Wandering Jew (2 to 3 leaf), Anoda Weed (2 to 3 leaf)		800mL	
Non-Agricultural situations, around sheds, roadways, paths	Annual grasses and broadleaf weeds	ALL STATES	1.6L to 4L/ha OR 200mL/100L [^]	Apply by mechanically pressurised hand wand only. DO NOT use more than 15L of undiluted product per day. Spray to thoroughly wet weed growth. TITAN Paraquat 250 Herbicide can be combined with soil residual herbicides TITAN Diuron 900 WG Herbicide or TITAN Simazine 900 WG Herbicide to give rapid knockdown and prolonged weed control. Use the higher rate for dense weed growth.
	Columbus Grass	NSW only	Spot Spraying: 160mL/100L plus 1L 745g/L flupropanate	Apply by mechanically pressurised hand wand only. DO NOT use more than 15L of undiluted product per day.
Firebreaks	Knockdown weed growth to eliminate fire hazard or assist firebreak burn	ALL STATES	1.6L to 4L	Apply by mechanically pressurised hand wand only. DO NOT use more than 15L of undiluted product per day. Apply mid-winter to early summer. Use the higher rate for dense weed growth. After desiccation is complete the sprayed area may be burnt (normally 7 to 10 days after spraying). TITAN Paraquat 250 Herbicide can be combined with soil residual herbicides TITAN Diuron 900WG Herbicide or TITAN Simazine 900 WG Herbicide to give rapid knockdown and prolonged weed control.

[^] When applying TITAN Paraquat 250 Herbicide at rates less than the ratio 400mL/100L add 100mL Agral or 60mL TITAN Wetter 1000 Wetting Agent/100L of spray mix.

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

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE.

THIS PRODUCT IS TOO HAZARDOUS TO BE USED IN THE HOME GARDEN.

WITHHOLDING PERIODS:

GRAZING

Livestock: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 1 DAY AFTER APPLICATION.

Horses: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION.

HARVEST

Chickpeas, Faba Beans, Field Peas, Lentils and Lupins: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.

Other Uses: NOT REQUIRED WHEN USED AS DIRECTED.



LIVESTOCK DESTINED FOR EXPORT MARKETS

The grazing withholding period only applies to stock slaughtered for the domestic market. Some export markets apply different standards. To meet these standards, ensure that in addition to complying with the grazing withholding period, the export slaughter interval is observed before stock are sold or slaughtered.

EXPORT SLAUGHTER INTERVAL (ESI) 13 DAYS

Livestock that has grazed on or been fed treated crops should be placed on clean feed for 13 days prior to slaughter.

EXPORT OF TREATED PRODUCE

Growers should note that maximum residue limits (MRLs) or import tolerances may not exist in all markets for Field Peas, Lupins, Lentils, Chickpeas or Faba Beans treated with TITAN Paraquat 250 Herbicide. If you are growing Field Peas, Lupins, Lentils, Chickpeas or Faba Beans for export, please check with TITAN AG Pty Ltd for the latest information on MRLs and import tolerances before using TITAN Paraquat 250 Herbicide.

GENERAL INSTRUCTIONS

This product kills annual grasses and most annual broadleaf weeds (excluding Capeweed) in specified situations and should not be used for any other purpose. Quickly kills green plant tissue on contact. Is immediately inactivated in the soil. At spraying, weeds should be growing vigorously and must not be covered with soil or heavy dew.

The principle of selective weed control with this product is that annual weeds are killed but perennial plants and clovers recover after an initial scorch. The control of annual weeds by spraying with this product will allow the desirable perennial species to thicken up at the expense of the weeds. Moisture and fertility should not be limiting at spraying and the proportion of desirable species must be great enough for them to fill in the areas previously occupied by weeds. Long-term weed control can be obtained following the quick knockdown given by this product if it is combined with soil residual chemicals.

MIXING

Add the required quantity of product to water in the spray tank and agitate to give even mixing. Agitate again if left standing.

CLEAN WATER

Mix this product with clean water only. Water should be clean and free from clay, silt and algae. Providing it meets this requirement, saline water, water collected from roofs, bore water, dam water and water from creeks may be used.

APPLICATION

(i) Cereals and Broadacre Spraying

Use only through a properly calibrated boom spray which should be fitted with flat fan jets and adjusted to a height to give at least double overlap of the spray at the top of the weeds being sprayed. It is essential that a good marking or guidance system be used. If a disc marker is used, it must be mounted so as to turn the soil back on to the area sprayed. It is essential to obtain good leaf coverage with the spray and volumes of dilute spray must be adjusted according to density of weed growth. 100L/ha may be used for seedlings or well grazed weeds up to 2cm high. For plant height 2-5cm use 150L/ha and up to 6-10cm use 200L/ha. Spray volumes may be as low as 50L/ha (30L/ha in WA) for weed growth below 5cm high or for spray topping. Equipment must be appropriate to this volume, properly calibrated and fitted with spraying tips designed to give spray droplets not smaller than a MEDIUM spray droplet size category.

(ii) High Volume Application

Higher volumes will generally be required to give good coverage of weed growth in situations other than those specified under cereals and other broadacre crops.

(iii) Wash spray equipment with clean water immediately after use

This product is highly corrosive to metals, particularly galvanised iron and aluminium and should not be left for long periods in tanks or equipment made of these materials.

COMPATIBILITY

This product combines satisfactorily with the soil active herbicide TITAN Diuron 900 WG Herbicide where prolonged weed control is required as well as a quick knockdown. This product is compatible with TITAN Wetter 1000 Wetting Agent, TITAN Diquat 200 Non-Residual Herbicide, TITAN EOS Herbicide, TITAN Dicamba products, TITAN MCPA Amine (no more than 1L/800mL TITAN Paraquat 250 Herbicide), TITAN Chlorsulfuron 750, TITAN Tri-Allate 500 EC Herbicide, TITAN Trifluralin 480 Selective Herbicide.

RESISTANT WEEDS WARNING

TITAN Paraquat 250 Herbicide is a member of the bipyridyls group of herbicides. TITAN Paraquat 250 Herbicide has the inhibitor of photosynthesis at photosystem I mode of action. For weed resistance management TITAN Paraquat 250 Herbicide is a Group 22 herbicide. Some naturally occurring weed biotypes resistant to TITAN Paraquat 250 Herbicide and other Group 22 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 weeds will not be controlled by TITAN Paraquat 250 Herbicide or other Group 22 herbicides. Since the 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 Paraquat 250 Herbicide to control resistant weeds.

PRECAUTIONS

Re-entry Period: DO NOT allow entry to treated areas until the spray has dried unless using an enclosed cab or wearing cotton overalls and gloves. Workers performing scouting and hand-set irrigation activities must comply with the re-entry periods specified below.

Activity		
Rate	Scouting (Days)	Irrigation (Days)
Up to 560mL/ha	0	0
Up to 1.1L/ha	0	3
Up to 2.78L/ha	6	11

This formulation should not be applied on or near water which is used for human consumption.

PROTECTION OF LIVESTOCK

This formulation should not be applied on or near water which is used for livestock watering.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers. This formulation should not be applied on or near water which is used for commercial or recreational fishing. Toxic to birds and native mammals. However, the use of this product as directed is not expected to have adverse effects on birds and native mammals.

Toxic to beneficial arthropods. Not compatible with integrated pest management (IPM) programs utilising beneficial arthropods. Minimise spray drift to reduce harmful effects on beneficial arthropods in non-crop areas.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. 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 packaging 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 set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

110L only: Store in the original sealed Envirodrum in a cool well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the Envirodrum with water or any foreign matter. After each use of the product, please ensure that the Micro Matic coupler delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the Envirodrum have been used, please return the Envirodrum to the point of purchase. The Envirodrum remains the property of TITAN AG Pty Ltd.

1000L: 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.

Other containers: Empty contents fully into application equipment. Close all valves and return to the point of supply or other designated collection point for refill or storage.

GROUP **22** HERBICIDE



SAFETY DIRECTIONS

Very dangerous, particularly the concentrate. DO NOT swallow. The product, particularly the concentrate, can kill if swallowed, absorbed through the eyes, or absorbed by skin contact. The liquid can cause burns particularly to the eyes. Will irritate the nose, throat and skin. When handling, do not touch or rub eyes, nose or mouth with hand. Avoid contact with eyes and skin, open wounds and clothing. Protect eyes while using. If clothing becomes contaminated with product or with wet spray remove clothing immediately. DO NOT inhale spray mist. DO NOT allow children to play with containers or any equipment that is used.

When connecting, disconnecting and cleaning equipment wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat, impervious footwear, elbow-length chemical resistant gloves and a full-face respirator with canister specified for paraquat/diquat OR half face-piece respirator with canister specified for paraquat/diquat and face shield or goggles.

When applying by hand wand wear cotton overalls, over normal clothing, buttoned to the neck and wrist and a washable hat, impervious footwear, elbow-length chemical resistant gloves and a full face piece respirator with a canister specified for paraquat/diquat. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves, face shield or goggles, respirator (and if rubber wash with detergent and warm water), clothing and footwear.

FIRST AID

If poisoning occurs get to a doctor or hospital quickly. If sprayed on skin, wash thoroughly. If sprayed in mouth, rinse mouth with water. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for TITAN Paraquat 250 Herbicide is available from TITAN AG Pty Ltd on request. Call Customer Service on (02) 9999 6655 or visit 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: Toxic if swallowed. Toxic in contact with skin. Fatal if inhaled. Causes severe skin burns and eye damage. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects. Precautionary Statements: Do not breathe dusts or mists. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Wear respiratory protection. IF SWALLOWED: Immediately call a POISON CENTER/ doctor. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor if you feel unwell. Get medical advice/attention if you feel unwell. Specific treatment is urgent (see on this label). Take off immediately all contaminated clothing and wash it before reuse. Collect spillage. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

