

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 360

HERBICIDE

ACTIVE CONSTITUENT: 360g/L PARAQUAT present as PARAQUAT DICHLORIDE

GROUP **22** HERBICIDE

For the control of certain grasses and broadleaf weeds as per the 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.: 87424/RV2026

Pack Size: 1L-1000L



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SL

Formulation Type
Soluble Liquid Concentrate

IN A TRANSPORT EMERGENCY

• DIAL 000 • POLICE OR FIRE BRIGADE



UN 3016
BIPYRIDILUM 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 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 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 provide 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	0.5m or lower	0	160		0	
Up to 280mL/ha	0.5m or lower	0	100		0	
	1.0m or lower	20	325		15	

DO NOT apply by an Optical Spot 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 Optical Spot Sprayers') are observed.

Buffer Zones for Optical Spot 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
624mL/ha (2.08L/ha at 30% weed cover)	0.5m or lower	10	300	0	5	0

CROP USE OR SITUATION	WEEDS CONTROLLED	STATE	RATE/ha	CRITICAL COMMENTS
Crop, Pasture or Fallow Establishment 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, WA, NT only	420mL to 560mL plus adjuvant	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. Refer to Adjuvant section under General Instructions.
		NSW, ACT only	420mL plus adjuvant	
Rice	Annual grasses and broadleaf weeds	QLD, NSW, NT only	560mL plus adjuvant	Apply by ground boom only. Post-sowing, pre-crop emergence. Refer to Adjuvant section under General Instructions.
Spray topping to reduce seed set	Annual Ryegrass	ALL STATES	280mL or 560mL plus adjuvant	As an aid in managing Annual Ryegrass resistance. For use on escapes from a previous herbicide application in the current crop.
Chickpeas, Faba Beans, Field Peas, Lentils, Lupins				Apply by ground boom only in 50 to 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 Annual 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. In practice crop losses in excess of 25% may occur. Refer to Adjuvant section under General Instructions.
Peanuts Post-emergence (in crop)	<i>Datura</i> spp. (2 to 4 leaf)	QLD, NT only	280mL plus adjuvant	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. DO NOT spray (on Peanuts) under extremely hot dry conditions when Peanuts are very small. Refer to Adjuvant section under General Instructions.
	Annual Ground Cherry (2 to 3 leaf), Apple-of-Peru (2 to 4 leaf), Milkweed (2 to 3 leaf)		420mL plus adjuvant	
	Stagger Weed (2 to 3 leaf), Blue Heliotrope (2 to 3 leaf), Wandering Jew (2 to 3 leaf), Anoda Weed (2 to 3 leaf)		560mL plus adjuvant	
Non-Agricultural situations, around sheds, roadways, paths	Annual grasses and broadleaf weeds	ALL STATES	1.1L to 2.78L/ha OR 140mL/100L plus adjuvant	Apply by mechanically pressurised hand wand only. DO NOT use more than 10L of undiluted product per day. Spray to thoroughly wet weed growth. TITAN Paraquat 360 Herbicide can be combined with soil residual herbicide TITAN Simazine 900 WG Herbicide to give rapid knockdown and prolonged weed control. Use the higher rate for dense weed growth. Refer to Adjuvant section under General Instructions.
Firebreaks	Annual grasses and broadleaf weeds	ALL STATES	1.1L to 2.78L plus adjuvant	Apply by mechanically pressurised hand wand only. DO NOT use more than 10L of undiluted product per day. Knock down weed growth to eliminate fire hazard or assist firebreak burn. 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 360 Herbicide can be combined with soil residual herbicide TITAN Simazine 900 WG Herbicide to give rapid knockdown and prolonged weed control. Refer to Adjuvant section under General Instructions.
OPTICAL SPOT SPRAY TECHNOLOGIES Note: Calibrate the sprayer to spray the equivalent of 100L/ha.				
SITUATION	WEEDS	RATES	CRITICAL COMMENTS	
Fallow - with weed cover between 0% and 30% only	Yellow Vine (Caltrop), Barnyard Grass, Bladder Ketmia	3L/100L	Apply to rosette of flowering plants.	

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

Field Peas, Chickpeas, Faba Beans, Lupins, Lentils: 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 360 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 360 Herbicide.

GENERAL DIRECTIONS

MIXING

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

TITAN Paraquat 360 Herbicide controls annual grasses and most annual broadleaf weeds (excluding Capeweed) in specified situations and should not be used for any other purpose. Quickly destroys green plant tissue on contact. It's 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 controlled 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.

ADJUVANT

This product requires the addition of an adjuvant. For optimum activity select from the following adjuvant groups:

Adjuvant Group	Rate
Alkylaryl ethoxylates (eg. Agral*)	250mL/100L
Alcohol alkoxylates	250mL/100L
Soyal phospholipid/propionic acid based surfactants (e.g. LI 700*)	250mL/100L
Esterified and emulsified vegetable oil based products (eg. Adigor*, Hasten*)	500 to 1000 mL/100 L

Use the higher rates when targeting more advanced weeds within the recommended range and when total water volumes of below 70L/ha are used.

APPLICATION

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. 10L/ha may be used for seedlings or well grazed weeds up to 2cm high. For plant height 2 to 5cm use 150L/ha and up to 6 to 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.

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.

CLEAN UP

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.

RESISTANT WEEDS WARNING

TITAN Paraquat 360 Herbicide is a member of the bipyridyls group of herbicides. TITAN Paraquat 360 Herbicide has the inhibitor of photosynthesis at photosystem I mode of action. For weed resistance management TITAN Paraquat 360 Herbicide is a Group 22 herbicide. Some naturally occurring weed biotypes resistant to TITAN Paraquat 360 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 resistant weeds will not be controlled by TITAN Paraquat 360 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 360 Herbicide to control resistant weeds.

GROUP **22** HERBICIDE

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 800mL/ha	0	0
Up to 1.6L/ha	0	3
Up to 4L/ha	6	11

PRECAUTIONS

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

For non-refillable containers: Store in the closed, original container in a dry, cool, well-ventilated locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. 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 deliver 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 marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

For refillable containers: Store in the closed, original container in a dry, cool, well-ventilated locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. DO NOT store for prolonged periods in direct sunlight. Empty contents fully into application equipment. Close all valves and return to point of storage for refill or storage.

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 360 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.

* Other trademarks

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 skin irritation. Causes serious eye irritation. 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 dust/fume/gas/mist/vapours/spray. 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. Rinse mouth. IF ON SKIN: Wash with plenty of water. 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. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. 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.

