POISON

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

TITAN

QUIZALOFOP-P-ETHYL 200
HERBICIDE

ACTIVE CONSTITUENT: 200g/L QUIZALOFOP-P-ETHYL
SOLVENTS: 592g/L HYDROCARBON LIQUID
150g/L N-METHYL-2-PYRROLIDONE

GROUP 1 HERBICIDE



For the control of certain grass weeds in broadleaf crops as per Directions For Use table.

APVMA Approval No.: 67598/56430

Pack Size: 5L; 10L; 20L

TITAN AG
CROP PROTECTION

TITAN AG Pty Ltd | ABN 57 122 081 574
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EC Formulation Type **Emulsifiable Concentrate**

IN A TRANSPORT EMERGENCY
• DIAL 000 • POLICE OR FIRE BRIGADE

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3082
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains quizalofop-P-ethyl)
PG III Hazchem •3Z

DIRECTIONS FOR USE

Restraints:

DO NOT apply to crops that are stressed by any cause (such as severe cold weather, disease, drought or waterlogging).

DO NOT apply to weeds that are stressed by any cause (such as weather conditions, drought, waterlogging) or not actively growing. Grass weeds under stress frequently become less susceptible to herbicide activity. This may result in an incomplete kill or suppression of weeds only.

DO NOT apply under conditions of high temperature and low humidity.

DO NOT apply if rainfall is expected within 3 hours.

DO NOT apply less than 50L prepared spray/ha – see section "Ground Spraying".

BOOM SPRAYING: WINTER GROWING WEEDS: ALL STATES

CROPS	WEEDS CONTROLLED	WEEDS STAGE	RATE/ha	WITHHOLDING PERIOD		CRITICAL COMMENTS
				HARVEST	GRAZING	
Beetroot Cabbage Canola Carrots Cauliflower Chickpeas Clover & Subclover Pastures Cucumbers• Faba Beans Field Peas Honey Dew Melons• Lentils Lucerne Lupins Medic Pasture Mung Beans Navy Beans Onions Potatoes Pumpkins• Radish Tomatoes Vetch	Annual Ryegrass (*Lolium rigidum*), Brome Grasses (*Bromus* spp.)	3 leaf to early tillering	150mL or 190mL	14 days 9 weeks 11 weeks 10 weeks 14 days 12 weeks – 14 days 12 weeks 9 weeks 9 weeks 12 weeks – 6 weeks – 12 weeks 12 weeks 18 weeks 10 weeks 9 weeks 21 days 4 weeks 12 weeks	– – 4 weeks – – 4 weeks 14 days – 4 weeks 4 weeks – 4 weeks 4 weeks 4 weeks 14 days 4 weeks 4 weeks – – – – – 4 weeks	Apply when weeds are actively growing. Use higher rate under heavy weed pressure, and/or when weeds have commenced tillering*.
	Barley Grass (*Hordeum* spp.), Volunteer Barley, Volunteer Wheat	3 leaf to early tillering	125mL			Apply when weeds are actively growing*.
	Wild Oats (*Avena* spp.)	3 leaf to mid tillering	65mL or 125mL			Apply when weeds are actively growing. Use the lower rate only under light weed pressure and/or when weeds are at the 1-3 leaf stage. Use higher rate under heavy weed pressure and/or when weeds are tillering. The higher rate will give better or more reliable control*.

* Always add a surfactant/wetting agent at the recommended rate. See section on "Use of surfactant/wetting agent" for details.

• **IMPORTANT: DO NOT** apply TITAN Quizalofop-P-Ethyl 200 Herbicide before the five true leaf stage of Cucumbers, Honey Dew Melons and Pumpkins.

BOOM SPRAYING: SUMMER GROWING WEEDS: ALL STATES

CROPS	WEEDS CONTROLLED	WEEDS STAGE	RATE/ha	WITHHOLDING PERIOD		CRITICAL COMMENTS
				HARVEST	GRAZING	
Beetroot Cabbage Cauliflower Carrots Cucumbers• Green Beans Honey Dew Melons• Lucerne Mung Beans Navy Beans Onions Peanuts Potatoes Pineapples Pumpkins• Radish Soybeans Sunflower Tomatoes	Awnless Barnyard Grass (*Echinochloa colona*), Barnyard Grass (*Echinochloa crusgalli*)	3 leaf to early tillering	250mL or 375mL	14 days 9 weeks 14 weeks 10 weeks 14 days 5 weeks 9 weeks – 12 weeks 12 weeks 18 weeks 11 weeks 10 weeks 7 days 9 weeks 21 days 12 weeks 9 weeks 4 weeks	– – – – – 4 weeks – 4 weeks 4 weeks 4 weeks – 11 weeks – – – – 4 weeks 11 weeks –	Apply when weeds are actively growing. Use higher rate under heavy weed pressure, and/or when weeds have commenced tillering*.
	Couch Grass (*Cynodon dactylon*)	2-4 leaf seedling	250mL			Apply when weeds are actively growing. This rate will only control seedling Couch Grass which is less than 2 months old and established from seed*.
	Dinebra (*Dinebra retroflexa*)	3 leaf to early tillering	125mL or 190mL			Apply when weeds are actively growing. Use higher rate under heavy weed pressure, and/or when weeds have commenced tillering*.
	Crowsfoot Grass (*Eleusine indica*)	2 leaf to early tillering	250mL			Apply when weeds are actively growing*.
	Foxtail Millet (*Setaria italica*)	2 leaf to early tillering	125mL or 250mL			Apply when weeds are actively growing. Use higher rate under heavy weed pressure, and/or when weeds have commenced tillering*.
	Columbus Grass (*Sorghum x almum*), Johnson Grass (*Sorghum halepense*), Liverseed Grass (*Urochloa panicoides*)	2 leaf to 3 tiller	250mL or 375mL			
	Rhodes Grass (*Chloris gayana*), Stink Grass (*Eragrostis cilianensis*)	3 leaf to early tillering	125mL or 250mL			
	Queensland Blue Grass (*Dichanthium sericeum*)	3 leaf to early tillering	250mL			Apply when weeds are actively growing*.
	Summer Grass (*Digitaria ciliaris*)	3 leaf to early tillering	250mL or 500mL			Apply when weeds are actively growing. Use higher rate under heavy weed pressure, and/or when weeds have commenced tillering*.

* Always add a surfactant/wetting agent at the recommended rate. See section on "Use of surfactant/wetting agent" for details.

• **IMPORTANT: DO NOT** apply TITAN Quizalofop-P-Ethyl 200 Herbicide before the five true leaf stage of Cucumbers, Honey Dew Melons and Pumpkins.

TITAN AG CROP PROTECTION

HAND GUN SPRAYING: ALL STATES

CROPS	WEEDS CONTROLLED	WEEDS STAGE	RATE/ha	WITHHOLDING PERIOD		CRITICAL COMMENTS
				HARVEST	GRAZING	
Beetroot	Awnless Barnyard Grass (*Echinochloa colona*), Crowsfoot Grass (*Eleusine indica*)	3 leaf to early tillering	65mL	14 days	–	Apply when weeds are actively growing. Use a minimum of 800L of prepared spray/ha. Thoroughly wet target weeds (especially well established clumps) without causing runoff. Repeat spraying may be necessary for perennial grass species. Always add a surfactant/wetting agent at the recommended rate – see section on "Use of Surfactant/Wetting agent" for details.
Cabbage				9 weeks	–	
Cauliflower				14 days	–	
Canola				11 weeks	4 weeks	
Carrots	Paspalum (*Paspalum dilatatum*)	Seedling to established clumps		10 weeks	–	
Chickpeas				12 weeks	4 weeks	
Clover & Subclover Pastures				–	14 days	
Cucumbers•	Johnson Grass (*Sorghum halepense*)	Seedling 2 leaf to early tillering		14 days	–	
Faba Beans				12 weeks	4 weeks	
Field Peas				9 weeks	4 weeks	
Grapes		Rhizome 2 leaf to early tillering	125mL	–	–	
Green Beans				5 weeks	4 weeks	
Honey Dew Melons•	Kikuyu (*Pennisetum clandestinum*)	Seedling to established plants		9 weeks	–	
Lentils				12 weeks	4 weeks	
Lucerne				–	4 weeks	
Lupins				6 weeks	4 weeks	
Medic Pasture				–	14 days	
Mung Beans				12 weeks	4 weeks	
Navy Beans				12 weeks	4 weeks	
Non crop				–	–	
Onions				18 weeks	–	
Peanuts				11 weeks	11 weeks	
Pineapples				7 days	–	
Potatoes				10 weeks	–	
Pumpkins•				9 weeks	–	
Radish				21 days	–	
Soy Beans				12 weeks	4 weeks	
Sunflowers				9 weeks	11 weeks	
Tomatoes				4 weeks	–	
Vetch				12 weeks	4 weeks	

• **IMPORTANT: DO NOT** apply TITAN Quizalofop-P-Ethyl 200 Herbicide before the five true leaf stage of Cucumbers, Honey Dew Melons and Pumpkins.

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

WITHHOLDING PERIODS:

HARVEST

BEETROOT, CAULIFLOWER, CUCUMBERS: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.
CABBAGE, FIELD PEAS, HONEY DEW MELON, PUMPKINS, SUNFLOWERS: DO NOT HARVEST FOR 9 WEEKS AFTER APPLICATION.
CARROTS, POTATOES: DO NOT HARVEST FOR 10 WEEKS AFTER APPLICATION.
CHICKPEAS, FABA BEANS, LENTILS, MUNG BEANS, NAVY BEANS, SOYBEANS, VETCH: DO NOT HARVEST FOR 12 WEEKS AFTER APPLICATION.
CANOLA, PEANUTS: DO NOT HARVEST FOR 11 WEEKS AFTER APPLICATION.
GREEN BEANS: DO NOT HARVEST FOR 5 WEEKS AFTER APPLICATION.
GRAPES: NOT REQUIRED WHEN USED AS DIRECTED.
LUPINS: DO NOT HARVEST FOR 6 WEEKS AFTER APPLICATION.
ONIONS: DO NOT HARVEST FOR 18 WEEKS AFTER APPLICATION.
PINEAPPLES: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.
RADISH: DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION.
TOMATOES: DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.

GRAZING

CANOLA, CHICKPEAS, FABA BEANS, FIELD PEAS, GREEN BEANS, LENTILS, LUCERNE, LUPINS, MUNG BEANS, NAVY BEANS, SOYBEANS, VETCH: DO NOT GRAZE OR CUT FOR STOCK FEED FOR 4 WEEKS AFTER APPLICATION.
CLOVER, MEDIC PASTURES (EXCEPT LUCERNE): DO NOT GRAZE OR CUT FOR STOCK FEED FOR 14 DAYS AFTER APPLICATION.
PEANUTS, SUNFLOWERS: DO NOT GRAZE OR CUT FOR STOCK FEED FOR 11 WEEKS AFTER APPLICATION.

GENERAL INSTRUCTIONS

TITAN Quizalofop-P-Ethyl 200 Herbicide is an emulsifiable concentrate herbicide used post-emergence for the control of certain grass weeds in specified broadleaf crops.

TITAN Quizalofop-P-Ethyl 200 Herbicide is a systemic herbicide, which is rapidly absorbed and readily translocates from the treated foliage to the root system and growing points of the plant. Applications made to grass weeds stressed due to insufficient moisture or cold temperatures may result in unsatisfactory control.

TIME OF APPLICATION

For maximum benefit, weeds should be sprayed when young and actively growing. Application may be made at any stage of crop growth (except to curcurbit crops), but sufficient time must be allowed for the prescribed withholding period to expire before harvest and / or grazing or cutting for stockfeed.

IMPORTANT: DO NOT apply TITAN Quizalofop-P-Ethyl 200 Herbicide to curcurbit crops before the five true leaf stage.

SPRAY PREPARATION

If spray equipment has been previously used for the application of sulfonylurea herbicides e.g. metsulfuron-methyl, chlorsulfuron, thifensulfuron-methyl, triasulfuron, ensure that the recommended sprayer equipment procedure for the product previously applied has been followed, before using the equipment for the application of TITAN Quizalofop-P-Ethyl 200 Herbicide.

TITAN Quizalofop-P-Ethyl 200 Herbicide is an emulsifiable concentrate to be mixed with water and applied as a spray. Add the required amount of TITAN Quizalofop-P-Ethyl 200 Herbicide directly to the spray tank and mix well.

If mixing with mancozeb or carbendazim, add these to the spray tank and mix thoroughly PRIOR to adding TITAN Quizalofop-P-Ethyl 200 Herbicide.

If spray solution has been left standing for more than 3 hours ensure thorough re-agitation before commencement of spraying.

DO NOT allow spray mixture to stand overnight, as re-suspension may be difficult.

TITAN AG CROP PROTECTION

USE OF A SURFACTANT/WETTING AGENT
TITAN Quizalofop-P-Ethyl 200 Herbicide may be used with either of the following adjuvant systems:

1. A methylated and/or ethylated seed crop oil (e.g. Hasten*) at 1L/100L of final spray volume (e.g. 1%V/V).
2. TITAN Wetter 1000 Wetting Agent (Non-ionic surfactant, 1000g/L) at 200mL/100L of final spray volume (e.g. 0.2%V/V).

INCOMPATIBILITIES
DO NOT use TITAN Quizalofop-P-Ethyl 200 Herbicide with mineral based crop oils (e.g. D-C-Trate*) or non-methylated spray oils of crop origin (e.g. Codacide* oil, Synetrol* oil) as spray adjuvants.

COMPATIBILITIES
TITAN Quizalofop-P-Ethyl 200 Herbicide is compatible with the herbicides sethoxydim and clethodim. The recommended surfactant/wetting agent is the methylated and/or ethylated seed crop oil adjuvant system.
TITAN Quizalofop-P-Ethyl 200 Herbicide is compatible with the insecticides deltamethrin, omethoate, dimethoate, methomyl, endosulfan, the fungicides carbendazim and mancozeb and the herbicide clopyralid when using the methylated and/or ethylated seed crop oil adjuvant system.
TITAN Quizalofop-P-Ethyl 200 Herbicide is compatible with the herbicide diflufenican when using the non-ionic surfactant only adjuvant system.
DO NOT add crop oil to tank mixtures of TITAN Quizalofop-P-Ethyl 200 Herbicide/diflufenican. Application of TITAN Quizalofop-P-Ethyl 200 Herbicide/diflufenican tank mix may result in crop effects, which usually appear as yellow or white bleaching on the leaves. New growth and subsequent yield, however, will not be affected.
To minimise crop effects apply TITAN Quizalofop-P-Ethyl 200 Herbicide a minimum of 5 days prior to diflufenican application or a minimum 10 days after diflufenican application (14-21 days if weeds have been stressed).

GROUND SPRAYING
Use between 50 and 100 litres of prepared spray/ha, the higher spray volume gives more reliable results. If weeds are large and the crop canopy is dense, increase the volume to 150 litres prepared spray/ha.
Use sprayers with flat fan or hollow cone nozzles at 210-350kPa to give an even distribution of droplets with no less than 50% of the spray volume in the 150-300 micron range. 1100 flat fan nozzles are preferred. For proper spray coverage adjust the boom and nozzle height according to the specification listed by the nozzle manufacturers. Ensure the spray is evenly distributed and a double overlap spray pattern is obtained. Avoid overlapping boomspray widths and shut off spray booms while starting, slowing or stopping.

SPRAYER CLEANUP
Thoroughly clean all traces of TITAN Quizalofop-P-Ethyl 200 Herbicide from application equipment immediately after use. Flush tank, pump, hoses and boom with several changes of water after removing nozzle tips and screens (clean those parts separately). Failure to thoroughly clean the equipment may result in injury to subsequently sprayed cereal and grass crops.
If spray equipment has been previously used for the application of sulfonylurea herbicides e.g. TITAN Metsulfuron 600 WG Herbicide, thifensulfuron methyl, TITAN Chlorsulfuron 750 WG Herbicide, TITAN Triasulfuron 750 WG Herbicide ensure that the recommended sprayer cleanup procedure of the product previously sprayed has been followed before using the equipment for the application of TITAN Quizalofop-P-Ethyl 200 Herbicide.

RESISTANT WEEDS WARNING
GROUP **1** HERBICIDE
TITAN Quizalofop-P-Ethyl 200 Herbicide is a member of the "Fop" (aryloxyphenoxy propianate) group of herbicides. TITAN Quizalofop-P-Ethyl 200 Herbicide has the inhibitors of acetyl coA carboxylase mode of action. For weed resistance management TITAN Quizalofop-P-Ethyl 200 Herbicide is a Group 1 Herbicide. Some naturally occurring weed biotypes resistant to TITAN Quizalofop-P-Ethyl 200 Herbicide and other Group 1 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 Quizalofop-P-Ethyl 200 Herbicide or other Group 1 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 failure of TITAN Quizalofop-P-Ethyl 200 Herbicide to control resistant weeds. Strategies to minimise the risk of herbicide resistance are available. Consult your farm chemical supplier consultant, TITAN AG representative, local Department of Agriculture or Primary Industries.

PRECAUTION
Re-Entry Period: DO NOT allow entry into treated areas until the spray has dried. When prior entry is necessary, wear chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS
DO NOT plant cereal crops into the treated area for a period of 18 weeks after application of TITAN Quizalofop-P-Ethyl 200 Herbicide. DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping land or pastures.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT
DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

STORAGE AND DISPOSAL
5L, 10L AND 20L only: DO NOT store tank-mixes of TITAN Quizalofop-P-Ethyl 200 Herbicide with other materials. Store in the closed original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. When storing, keep from contact with fertilisers, fungicides and seeds. 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 container to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the container below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.
For Refillable Containers: Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS
Will irritate the eyes and skin. Avoid contact with eyes. When opening the container, preparing the spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, and elbow-length PVC gloves. If product on skin immediately wash area with soap and water. Wash hands after use. After each day's use wash gloves and contaminated clothing.

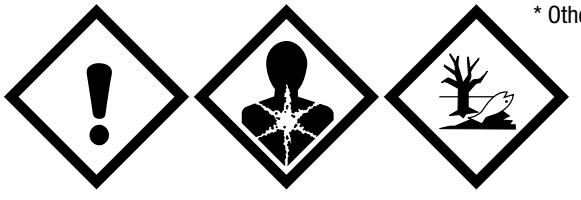
FIRST AID
If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126; New Zealand 0800 764 766. If swallowed DO NOT induce vomiting. Give a glass of water. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

SAFETY DATA SHEET
Additional information is listed in the safety data sheet (SDS). A safety data sheet for TITAN Quizalofop-P-Ethyl 200 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: Harmful if swallowed. May be fatal if swallowed and enters airways. Causes eye irritation. May cause drowsiness or dizziness. Very toxic to aquatic life with long lasting effects. Repeated exposure may cause skin dryness and cracking. Precautionary Statements: Use only a well-ventilated area. Avoid breathing mist/vapours/spray. Wash all exposed external body areas thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Collect spillage. IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Rinse mouth. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

* Other trademarks



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