

POISON

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

TITAN

Diclofop-Methyl

375 Selective Herbicide

ACTIVE CONSTITUENT: 375g/L DICLOFOP-METHYL

SOLVENT: 535g/L HYDROCARBON LIQUIDS

GROUP **A** HERBICIDE

For post-emergent control of Annual Ryegrass, Common Barbgrass and Wild Oats in Wheat, Barley and other crops and for the control of Crowfoot grass in turf as as per directions for use table.

IMPORTANT: READ THOROUGHLY BEFORE OPENING OR USING THIS PRODUCT.

APVMA Approval No.: 55739/0307

Pack Size: 20L, 110L, 120L, 200L, 220 L



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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

Restrictions: DO NOT apply to weeds or crop under stress due to, for example, very dry, very wet, nutrient deficient, frosty or diseased conditions.
 DO NOT apply if rainfall is expected within 2 hours.
 DO NOT spray when temperatures are higher than 25°C.
 DO NOT use on rye-grass turf.

CROP	WEED	STATE	WEED STAGE	RATE L/HA	CRITICAL COMMENTS
Wheat, Barley, Triticale, Cereal rye, Canola (rapeseed), Safflower, Linseed	Annual (Wimmera) Ryegrass	ALL STATES	2 to 4 leaf (Z12 to Z14)	1	Apply generally 3 to 6 weeks after sowing, when cereals are usually 2 to 5 leaves (Z12 to Z21). For barley, apply only when crop is at 4 to 5 leaf stage. For all crops add wetting agent at 0.25% active ingredient to water in spray tank, eg. 250mL TITAN Wetter 1000/100L water. This is irrespective of volume of water/ha or rate of TITAN Diclofop-methyl 375 Selective Herbicide.
	Common Barbgrass	NSW, ACT only		1.25	
Lupins, Peas	Annual Ryegrass	NSW, ACT, VIC, TAS, SA, WA only	2 to 4 leaf (Z12 to Z14)	1	
	Common Barbgrass	NSW, ACT only		1.25	
Wheat, Barley, Triticale, Cereal rye, Canola (rapeseed), Safflower, Linseed	Wild Oats	ALL STATES	2 to 3 leaf (Z12 to Z13)	1.5	For barley, apply only when crop is at 4 to 5 leaf stage. Avoid double spraying (overlap) at the maximum rate of 1.5L/ha. In crops other than barley, use 2L rate if most weeds are at 3 to 4 leaf stage and if spraying 4 to 6 weeks after sowing, especially in northern NSW and QLD. For all crops add wetting agent as above. Use 1.5L rate only if growing conditions are very favourable and weeds are at 2 to 3 leaf stage, 3 to 4 weeks after sowing, and cereals usually at 2 to 3 leaf stage (Z12 to Z13).
			3 to 4 leaf (Z13 to Z14)	2 (not barley)	
Lupins, Peas	Wild Oats	NSW, ACT, VIC, TAS, SA, WA only	2 to 3 leaf (Z12 to Z13)	1.5	
			3 to 4 leaf (Z13 to Z14)	2	
Pasture, Legume, Seed crops	Annual Ryegrass	ALL STATES	2 to 4 leaf (Z12 to Z14)	1	Add wetting agent as above. Ensure thorough coverage of weeds.
	Wild Oats			1.5 - 2	
Oilseed poppies	Wild Oats, Annual Ryegrass (refer critical comments)	TAS only	See critical comments	0.5 - 3	DO NOT add wetting agent. Apply in accordance with recommendations made by the Department of Agriculture or the Poppy Contracting Company.
Turf: kikuyuy, hybrid couch cv. Tifdward	Crowfoot Grass (<i>Eleusine indica</i>)	QLD, NSW, ACT only	See critical comments	1L/ha or 100mL in 100L of water per 1000 m ²	Apply to weeds between the seedling and tillering stage for the best results. Use lower rates for seedlings and higher rates for established grass weeds. A repeat spray may be needed in 2 to 4 weeks. Results are best when TITAN Diclofop-Methyl 375 Selective Herbicide is applied under good growing conditions and weeds have sufficient leaf area ie 2 to 3 days after mowing.
Queensland blue couch				1 to 1.5L/ha or 100 to 150mL in 100L of water per 1000m ²	
Common couch, Buffalo, hybrid couch cv. Tifway, carpet grass, salt couch				1 to 2.5L/ha or 100 to 250mL in 100L of water per 1000m ²	

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

WITHOLDING PERIOD:

ALL CROPS: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 WEEKS AFTER APPLICATION.

GENERAL INSTRUCTIONS

The best results are obtained under good growing conditions, when the crops and weeds are actively growing. Application to weeds or crops under stress (eg. due to continuous frost, dry, waterlogged, nutrient deficient or diseased conditions) should be avoided.

Wild Oats germinating after application will often be stunted and will not seriously compete with the crop. Application to crops with a covering of dew has been successful but generally should be avoided. If spraying cannot be completed spray mixtures of TITAN Diclofop-Methyl 375 Selective Herbicide in clean water may be left overnight without significant loss of efficacy. The mixture must be well agitated before spraying recommences. This is not recommended as standard practice.

RESISTANT WEEDS WARNING

TITAN Diclofop-Methyl 375 Selective Herbicide is a member of the aryloxyphenoxypropionate group of herbicides. TITAN Diclofop-Methyl 375 Selective Herbicide is an inhibitor of acetyl coA carboxylase. For weed resistance management TITAN Diclofop-Methyl 375 Selective Herbicide is a Group A herbicide. Some naturally occurring weed biotypes resistant to TITAN Diclofop-Methyl 375 Selective Herbicide and other herbicides which inhibit acetyl coA carboxylase, 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 Diclofop-Methyl 375 Selective Herbicide or other Group A 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 Diclofop-Methyl 375 to control resistant weeds.

EXPORT OF TREATED PRODUCE

Growers should note that suitable MRLs or import tolerances may not be established in all markets for produce treated with TITAN Diclofop-Methyl 375 Selective Herbicide. If you are growing produce for export, please check with TITAN AG Pty Ltd or your local Department of Agriculture for the latest information on MRLs and import tolerances BEFORE using TITAN Diclofop-Methyl 375 Selective Herbicide.

APPLICATION

Apply TITAN Diclofop-Methyl 375 Selective Herbicide to base (growing point) of weeds. Equipment must be set up to ensure penetration of the crop canopy.

MIXING

Fill spray tank with approximately two-thirds of the required quantity of water. Add the recommended quantity of TITAN Diclofop-Methyl 375 Selective Herbicide with the agitator turned on and top up with water to the total required volume. If a wetting agent is recommended, add to the tank just before tank is full to avoid excessive foaming.

EQUIPMENT

Ground Sprayers: Standard boom sprays only are recommended and must be fitted with by-pass or mechanical agitation. It is recommended to use approximately 50 to 150L water/ha and a droplet size of 200 to 300 microns. DO NOT apply with boomless jets or misters.

Aircraft: Optimum results are obtained using 20 to 30L water/ha with a steady cross wind and a swath width of 15 to 18 meters. Aim for a droplet size of 200 to 300 microns. DO NOT exaggerate swath width. Aircraft operators should consult manufacturer for further details.

COMPATIBILITY

Herbicides

(a) Mixtures of TITAN Diclofop-Methyl 375 Selective Herbicide with other broadleaf herbicides may lead to a reduction in grass weed control and/or varying degrees of crop discoloration/damage. These effects can be minimised by closely following all use recommendations and restrictions. The following table summarises the current knowledge on compatibility in wheat, barley, triticale and cereal rye crops:

	Ryegrass	Wild Oats
Bromoxynil	✓	✓
Bromoxynil 200g/L + MCPA 200g/L (Up to 1.4L/ha)	✓•	✓•
Chlorsulfuron 750g/Kg (Up to 15g/ha)	✓•	✓•
Clopyralid 300g/L (Up to 150mL/ha)	✓	✓
Diflufenican 25g/L + Bromoxynil 250g/L (Up to 0.75 L/ha)	✓	✓•
Diflufenican 25g/L + MCPA ester 250g/L (Up to 0.8L/ha)	✓•	✓•
Flumetsulam 800g/Kg (Up to 25g/ha)	✓	★
MCPA LVE 500g/L (Up to 700 mL/ha)	✓•	✓•
Metosulam 714g/Kg (Up to 7g/ha)	✓	✓•
Metsulfuron-methyl 600g/Kg	★	★

✓ No reduction in grass weed control is expected when used as recommended. Minor crop discoloration may occur in some cases. These mixtures can be used with minimal loss of activity under good growing conditions provided that all label recommendations are followed.

✓• These mixtures may result in some reduction in grass weed control and/or minor crop discoloration at the recommended rates, even under good growing conditions. These mixtures are not recommended unless such loss of efficacy and possible crop discoloration is accepted.

★ These mixtures result in severe reduction in grass weed control and/or significant crop injury and are not recommended.

(b) When mixing with broadleaf herbicides add surfactant eg. TITAN Wetter 1000 at the rate of 250mL/100L of spray solution. Reductions in grass weed control (as indicated above) can be minimised by using a minimum of 80L water per ha by ground and 30L by air, and if wild oats are present, use 2.0L TITAN Diclofop-Methyl 375/ha Selective Herbicide (except barley). DO NOT use Bromoxynil + MCPA mixtures at rates above 1.4L/ha when mixing with TITAN Diclofop-Methyl 375 Selective Herbicide.

(c) Allow at least 10 days between any application of TITAN Diclofop-Methyl 375 Selective Herbicide and other herbicides containing 2,4D, MCPA, dicamba or other similar herbicides. It is preferable that TITAN Diclofop-Methyl 375 Selective Herbicide should be sprayed before these herbicides.

(d) Oilseed poppies (in Tasmania only): TITAN Diclofop-Methyl 375 Selective Herbicide may be mixed with pesticides as recommended by the Department of Agriculture or the Poppy Contracting Company.

(e) Where phalaris is present, TITAN Diclofop-Methyl 375 Selective Herbicide and Wildcat* (or Puma* S) may be applied together at the respective recommended rates. Wetting agent should be added to this mixture at the usual rate recommended on the TITAN Diclofop-Methyl 375 Selective Herbicide label.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with this product or the used container.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spraying equipment which could be expected to cause spray to drift onto nearby susceptible plants, adjacent crops (eg. maize, sorghum, rice), crop lands or pasture.

DO NOT plant susceptible crops (eg. maize, sorghum, rice) for 10 weeks after application.

Undersown clovers and medics: TITAN Diclofop-Methyl 375 Selective Herbicide does not affect undersown clovers or medics or other broadleaf crops, and has no activity against broadleaf weeds.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Triple or preferably pressure 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 a local authority landfill. If no landfill is 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. Empty containers and product should not be burnt.

SAFETY DIRECTIONS

Will irritate the eyes and skin. Avoid contact with eyes and skin. DO NOT inhale vapour when opening the container, preparing spray and using the prepared spray. Wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow-length PVC gloves and goggles. If product in eyes wash it out immediately with water. Wash hands after use. After each days use, wash gloves, goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26. If swallowed, DO NOT induce vomiting. Give a glass of water.

MATERIAL SAFETY DATA SHEET

Additional information is listed in the material safety data sheet (MSDS). A material safety data sheet for TITAN Diclofop-Methyl 375 Selective Herbicide is available from TITAN AG Pty Ltd on request. Call Customer Service on (02) 9986 2943 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.

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