

# POISON

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

TITAN

# Diclofop-Methyl 500 EC

## Selective Herbicide

ACTIVE CONSTITUENT: 500g/L DICLOFOP-METHYL  
SOLVENTS: 394g/L HYDROCARBON LIQUID  
80g/L N-METHYL PYRROLIDONE

GROUP **A** HERBICIDE

For the post-emergent control of Annual Ryegrass and Wild Oats in Wheat, Barley, Triticale and Cereal Rye as specified in the Directions For Use.

IMPORTANT: READ THOROUGHLY BEFORE OPENING OR USING THIS PRODUCT.

APVMA Approval No.: 66100/52726

Pack Size: 20L, 110L, 200L



**TITAN AG Pty Ltd**

15/16 Princes Street, Newport, NSW 2106  
Telephone 02 9999 6655 Fax 02 9999 0483  
[www.titanag.com.au](http://www.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:**

**RESTRAINTS:** DO NOT apply if rainfall is expected within 2 hours.  
DO NOT spray when temperatures are higher than 25°C.  
DO NOT apply to weeds or crop under stress due to for eg. very dry, very wet, nutrient deficient, frost or diseased conditions.

CROP	WEED	WEED STAGE	RATE L/ha	CRITICAL COMMENTS
Wheat, Barley, Triticale, Cereal Rye	Annual (Wimmera) Ryegrass	2 to 4 leaf (Z12 to Z14)	0.75	Apply generally 3 to 6 weeks after sowing, when cereals usually 2 to 5 leaves (Z12 to Z21). For <b>barley</b> , apply only when crop is 4 to 5 leaf stage. For all crops <b>add wetting agent</b> at 0.25% active ingredient to water in spray tank eg. 250mL non-ionic wetter (1000g/L/100L water). This is irrespective of volume of water/ha or rate of TITAN Diclofop-Methyl 500 EC Selective Herbicide.
		Wild Oats	2 to 3 leaf (Z12 to Z13)	1.1
		3 to 4 leaf (Z13 to Z14)	1.5 (not barley)	Use 1.1L rate only if growing conditions are very favourable and weeds are 2 to 3 leaf, 3 to 4 weeks after sowing, and cereals usually 2 to 3 leaf (Z12 to Z13).

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

**WITHHOLDING PERIODS:**

**HARVEST (ALL CROPS): WITHHOLDING PERIOD NOT REQUIRED WHEN USED AS DIRECTED.**

**GRAZING (ALL CROPS): DO NOT GRAZE OR CUT FOR STOCKFEED FOR 7 WEEKS AFTER APPLICATION.**

**GENERAL INSTRUCTIONS**

Results are best under good growing conditions, when the crops and weeds are actively growing. Application to weeds or crop under stress (eg. due to continuous severe frosts, 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 frost or dew has been successful but should be avoided in general.

If spraying cannot be completed, spray mixtures of TITAN Diclofop-Methyl 500 EC Selective Herbicide in clean water may be left overnight without loss of efficacy. The mixture should be well agitated before spraying re-commences. It is not recommended that this be general practice.

**RESISTANT WEEDS WARNING**

TITAN Diclofop-Methyl 500 EC Selective Herbicide is a member of the aryloxyphenoxypropionate group of herbicides. This product has the inhibitor of acetyl coA carboxylase mode of action. For weed resistance management TITAN Diclofop-Methyl 500 EC Selective Herbicide is a Group A Herbicide. Some naturally occurring weed biotypes resistant to TITAN Diclofop-Methyl 500 EC Selective Herbicide and other Group A 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 Diclofop-Methyl 500 EC Selective Herbicide or other Group A Herbicides. Paddocks sprayed with TITAN Diclofop-Methyl 500 EC Selective Herbicide should be closely monitored if the paddock has a previous history of Diclofop-methyl usage. If resistance is suspected, contact TITAN AG or local Department of Agriculture. To avoid further resistance problems, do not use TITAN Diclofop-Methyl 500 EC Selective Herbicide or other Group A Herbicides. Further advice on resistance management strategies is available from your local Department of Agriculture or TITAN AG representative. Resistance should not be confused with poor application techniques, conditions or timing.

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 Diclofop-Methyl 500 EC Selective Herbicide to control resistant weeds.

**EXPORT OF TREATED PRODUCE**

Growers should not that suitable MRL's or import tolerances may be not be established in all markets treated with TITAN Diclofop-Methyl 500 EC Selective Herbicide. If you are growing produce for export, please check with TITAN AG Pty Ltd for the latest information on MRL's and import tolerances BEFORE using TITAN Diclofop-Methyl 500 EC Selective Herbicide.

**APPLICATION**

Aim to apply TITAN Diclofop-Methyl 500 EC Selective Herbicide to base (growing point) of weeds. Equipment must be set up to ensure penetration of the crop canopy.

**MIXING**

Add the required quantity of TITAN Diclofop-Methyl 500 EC Selective Herbicide directly to the spray tank when about two-thirds full.

Top up with water to required volume, with agitators in motion. Add wetting agents just before tank is full of water to avoid excessive frothing.

**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. Application should be made using an enclosed cabin where possible.

**Aircraft:** Best results have been obtained using 20 to 30L water/ha with a steady cross wind and a swath width of 15 to 18 metres. Aim for a droplet size of 200 to 300 microns. DO NOT exaggerate swath width. Aircraft operators should consult manufacturer for details. Flaggers should be protected by enclosed cabins where possible.

**COMPATIBILITY**

1. Mixture of TITAN Diclofop-Methyl 500 EC Selective Herbicide with broadleaf herbicides may lead to a reduction in grass weed control and/or varying degrees of crop discolourisation/damage. These effects can be minimised by closely following all use recommendations and restrictions.

The following table summarises current knowledge on compatibility in wheat, barley, triticale and cereal rye crops:

PRODUCT	Ryegrass	Wild Oats
MCPA Ester 250 + Diflufenican 250 (Up to 0.8L/ha)	Yellow	Yellow
Bromoxynil 250 + Diflufenican 250 (Up to 0.75L/ha)	Green	Yellow
714g/kg Metosulam (Up to 7g/ha)	Green	Yellow
800g/kg Flumetsulam (Up to 25g/ha)	Green	Red
MCPA LVE 500g/L (Up to 700mL/ha)	Yellow	Yellow
Bromoxynil	Green	Green
TITAN Bromoxynil MA (Up to 1.4L/ha)	Yellow	Yellow
TITAN Chlorsulfuron (Up to 15g/ha)	Yellow	Yellow
TITAN Clopyralid 300 (Up to 150mL/ha)	Green	Green
Metsulfuron	Red	Red
Wildcat*/Puma* Progress	Green	Green

**GREEN**

Trials indicate no reduction in grass weed control when used as recommended. There may be minor crop discolouration in some cases. These mixtures can be used with minimal loss of activity under good growing conditions with all label recommendations followed.

## YELLOW

Trials indicate some reduction in grass weed control and/or minor crop discolouration at recommended rates, even under good growing conditions. These mixtures will usually result in reduced grass weed control and cannot be recommended unless such efficacy loss and possible crop discolouration is accepted.

## RED

Trials at recommended rates indicate a severe reduction in grass weed control and/or significant crop injury. These mixtures cannot be recommended.

- When mixing with broadleaf herbicides add non-ionic wetter (1000g/L) at the rate of 250mL per 100L of spray solution. Reductions in grass weed control (as indicated above) can be minimised by using a minimum of 80L of water per ha by ground and 30L by air, and Wild Oats are present, use 1.5L TITAN Diclofop-Methyl 500 EC Selective Herbicide/ha (except barley). DO NOT use TITAN Bromoxynil MA at rates above 1.4L/ha when mixing TITAN Diclofop-Methyl 500 EC Selective Herbicide.
- Allow at least 10 days between any application of TITAN Diclofop-Methyl 500 EC Selective Herbicide and other herbicides containing, 2,4-D, MCPA, dicamba or other similar sprays, which should preferably follow TITAN Diclofop-Methyl 500 EC Selective Herbicide.
- Where Phalaris is present, TITAN Diclofop-Methyl 500 EC Selective Herbicide and Wildcat/Puma Progress may be applied together at the respective recommended rates. A non-ionic wetter (1000g/L) should be added to this mixture at the rate recommended on the TITAN Diclofop-Methyl 500 EC Selective Herbicide label.
- TITAN Diclofop-Methyl 500 EC Selective Herbicide may also be mixed with the following insecticides without a significant loss of activity: dimethoate, omethoate and phosmet.

## PRECAUTIONS

**Re-entry Period:** DO NOT allow entry into treated areas until spray has dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist and a washable hat and chemical resistant gloves. Clothing must be laundered after each day's use.

## PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

## PROTECTION OF CROP, 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, 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 500 EC 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 dry, cool well-ventilated area, out of 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 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.

**Refillable containers (110L and 1000L only):** Store in the closed, original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight. 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 and skin. DO NOT inhale vapour. If product is in eyes, wash out immediately with water. When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist, and washable hat, elbow-length PVC gloves and goggles. 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, 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. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

## MATERIAL SAFETY DATA SHEET

Additional information is listed in the material safety data sheet (MSDS). A material safety data sheet for TITAN Diclofop-Methyl 500 EC Selective Herbicide is available from TITAN AG Pty Ltd on request. Call Customer Service on (02) 9999 6655 or visit [www.titanag.com.au](http://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.

\* Other trademarks

BATCH NO:

DATE OF

MANUFACTURE: