

POISON

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

TITAN

Diflufenican Bromoxynil MCPA

Herbicide

ACTIVE CONSTITUENTS:

250g/L MCPA present as the ETHYL HEXYL ESTER

150g/L BROMOXYNIL present as the OCTANOATE

25g/L DIFLUFENICAN

SOLVENT: 150g/L N-METHYL-2-PYRROLIDONE

GROUP	FCI	HERBICIDE
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Crop/situations: Winter Cereals.

Controls/suppresses: Certain broadleaf weeds in Winter Cereals as per directions for use.

IMPORTANT: READ THOROUGHLY BEFORE OPENING OR USING THIS PRODUCT.

APVMA Approval No.: 90054/127234

Contents: 5-1000L



TITAN AG Pty Ltd

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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

Restraints: DO NOT apply if crop or weeds are stressed due to dry or excessively moist conditions.

DO NOT apply to crops under stress due to disease or insect damage.

DO NOT apply to frost-affected crops or if frosts are imminent.

DO NOT apply when heavy rain is expected within 4 hours.

DO NOT apply with crop oils.

CROP	WEEDS CONTROLLED	STAGE OF WEED GROWTH	STATE	RATE/ha	CRITICAL COMMENTS
Cereals Wheat, barley, triticale, cereal rye	Wild Radish	Up to the 4 leaf stage and not more than 120mm in diameter	ALL STATES	500mL	Warning: Temperatures above 20°C during and up to a week after application can significantly increase crop effects. Before applying TITAN Diflufenican Bromoxynil MCPA Herbicide, refer to the "Crop Tolerance" section of the General Instructions.
		All Up to the 6 leaf stage and not more than 150mm in diameter		750mL	Cereals: TITAN Diflufenican Bromoxynil MCPA Herbicide may cause transient crop effects/yellowing of cereals, with oats being potentially most sensitive. Higher rates may reduce the biomass of oaten hay crops.
		Up to the 8 leaf stage and not more than 180mm in diameter		1.0L	CROP STAGE Cereals: Apply from 3 leaf to fully tillered stage – Z13 to 30. Optimum results are achieved when sprayed at 3-5 leaf crop stage (generally 4-8 weeks post sowing) and before the crop canopy begins to close.
	Charlock, Hedge Mustard, Indian Hedge Mustard, Shepherd's Purse, Turnip Weed, Wild Turnip	Up to the 2 leaf stage and not more than 60mm in diameter	ALL STATES	500mL	WEED STAGE Apply when weeds are actively growing. In most situations the rate specified for each weed size will give satisfactory control. Under certain conditions such as:
		Up to the 4 leaf stage and not more than 120mm in diameter		750mL	<ul style="list-style-type: none"> • high crop and weed density; • late season germinations; • abnormal weed growth (including early flowering), higher rates of product (up to the maximum rate of application specified for that weed) may be required.
		Up to the 6 leaf stage and not more than 150mm in diameter		1.0L	TITAN Diflufenican Bromoxynil MCPA Herbicide will not effectively control:
	Capeweed	Up to the 2 leaf stage and not more than 60mm in diameter	ALL STATES	500mL	<ul style="list-style-type: none"> • regrowth of suppressed weeds; • transplanted weeds; • regrowth from rhizomes or roots; • weeds growing under stress from previous herbicide applications.
		Up to the 4 leaf stage and not more than 120mm in diameter		1.0L	WILD RADISH TITAN Diflufenican Bromoxynil MCPA Herbicide will provide residual control of Wild Radish for up to 4 weeks after application. Effective residual activity of this product may be reduced where:
	Crassula	Up to the 2 leaf stage	ALL STATES	500mL	<ul style="list-style-type: none"> • rates lower than 1.0L/ha are used; • dry conditions prevail; • poor coverage of the soil surface is achieved;
		Up to the 4 leaf stage		750mL	<ul style="list-style-type: none"> • crop is planted in non-wetting sand; • soils contain a high content of organic matter.
	Dense Flower Fumitory	Up to the 2 leaf stage	ALL STATES	750mL	Optimum results will be obtained if good soil moisture exists at and after application. APPLICATION Activity of this product will be reduced if weeds are stressed. Optimum results will be obtained if good soil moisture exists at and after application. Where crop or weed density is high, water volume should be increased.

CROP	WEEDS CONTROLLED	STAGE OF WEED GROWTH	STATE	RATE/ha	CRITICAL COMMENTS	
Cereals Wheat, barley, oats, triticale, cereal rye	Corn Gromwell, Saffron Thistle, Toad Rush	Up to the 2 leaf stage	ALL STATES	1.0L	Warning: Temperatures above 20°C during and up to a week after application can significantly increase crop effects. Before applying TITAN Diflufenican Bromoxynil MCPA Herbicide, refer to the “Crop Tolerance” section of the General Instructions. Cereals: TITAN Diflufenican Bromoxynil MCPA Herbicide may cause transient crop effects/yellowing of cereals, with oats being potentially most sensitive. Higher rates may reduce the biomass of oaten hay crops. CROP STAGE Cereals: Apply from 3 leaf to fully tillered stage – Z13 to 30. Optimum results are achieved when sprayed at 3-5 leaf crop stage (generally 4-8 weeks post sowing) and before the crop canopy begins to close. WEED STAGE Apply when weeds are actively growing. In most situations the rate specified for each weed size will give satisfactory control. Under certain conditions such as: <ul style="list-style-type: none">• high crop and weed density;• late season germinations;• abnormal weed growth (including early flowering), higher rates of product (up to the maximum rate of application specified for that weed) may be required. TITAN Diflufenican Bromoxynil MCPA Herbicide will not effectively control: <ul style="list-style-type: none">• regrowth of suppressed weeds;• transplanted weeds;• regrowth from rhizomes or roots;• weeds growing under stress from previous herbicide applications. WILD RADISH TITAN Diflufenican Bromoxynil MCPA Herbicide will provide residual control of Wild Radish for up to 4 weeks after application. Effective residual activity of this product may be reduced where: <ul style="list-style-type: none">• rates lower than 1.0L/ha are used;• dry conditions prevail;• poor coverage of the soil surface is achieved;• crop is planted in non-wetting sand;• soils contain a high content of organic matter. Optimum results will be obtained if good soil moisture exists at and after application. APPLICATION Activity of this product will be reduced if weeds are stressed. Optimum results will be obtained if good soil moisture exists at and after application. Where crop or weed density is high, water volume should be increased. # Where Wireweed occurs in red soils of low fertility it has been found to be less susceptible.	
	Deadnettle		NSW, VIC, SA only			
	Sorrel		VIC only			
	Canola (Rape)	Up to the 4 leaf stage	ALL STATES	500mL		
	Purple Goosefoot	Up to the 6 leaf stage	QLD only			
	Turnip Weed, Wild Turnip	Cotyledon to 2 leaf stage	NSW only (West of Newell Hwy) SA only (Eyre peninsula north of the line between Venus Bay and Cowell)	350mL		
	SUPPRESSION of the following weeds					
	Saffron Thistle	Up to the 6 leaf stage	QLD, NSW, ACT, VIC, TAS, SA, NT only	1.0L		
	Chickweed, Fireweed, Hexham Scent (King Island Melilot), Iceplant, Mouse-eared Chickweed, Nightscented Stock, Paterson’s Curse, Peppergrass, Skeleton Weed, Long Storksbill, Volunteer Lupins	Up to the 4 leaf stage				
	Wireweed (Hogweed)			750mL		
Common Sowthistle (Milk Thistle), Cowvine, Dock, Doublegee (Spiny Emex), Fat Hen, Horehound, Hyssop Loosestrife, Marshmallow, Rough Poppy, Scarlet Pimpernel, Stemless Thistle, Tree Hogweed, Variegated Thistle, Vetch (Tares)	Up to the 2 leaf stage	1.0L				

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

WITHHOLDING PERIODS:

HARVEST: NOT REQUIRED WHEN USED AS DIRECTED.

GRAZING: DO NOT GRAZE OR CUT FOR STOCK FOOD WITHIN 8 WEEKS AFTER APPLICATION.

WEED LIST	
Common name	Scientific name
Canola (rape)	<i>Brassica napus</i>
Capeweed	<i>Arctotheca calendula</i>
Charlock	<i>Sinapis arvensis</i>
Chickweed	<i>Stellaria media</i>
Common Sowthistle (Milk Thistle)	<i>Sonchus oleraceus</i>
Corn Gromwell	<i>Buglossoides arvensis</i>
Cowvine	<i>Ipomoea lonchophylla</i>
Crassula	<i>Crassula</i> spp.
Deadnettle	<i>Lamium amplexicaule</i>
Dense-flower Fumitory	<i>Fumaria densiflora</i>
Dock	<i>Rumex</i> spp.
Doublegee (Spiny Emex)	<i>Emex australis</i>
Fat Hen	<i>Chenopodium album</i>
Fireweed	<i>Senecio</i> spp.
Hedge Mustard	<i>Sisymbrium officinale</i>
Horehound	<i>Marrubium vulgare</i>
Horned Poppy	<i>Glaucium flavum</i>
Hyssop Loosestrife	<i>Lythrum hyssopifolia</i>
Iceplant	<i>Mesembryanthemum</i> spp.
Indian Hedge Mustard	<i>Sisymbrium orientale</i>
Long Storksbill	<i>Erodium botrys</i>
Marshmallow	<i>Malva parviflora</i>
Mouse-eared Chickweed	<i>Cerastium glomeratum</i>
Night-scented Stock	<i>Matthiola longipetala</i>
Mountain Sorrel	<i>Oxalis acetosella</i>
Paterson's Curse	<i>Echium plantagineum</i>
Peppercress	<i>Lepidium</i> spp.
Purple Goosefoot	<i>Scleroblitum atriplicinum</i>
Rough Poppy	<i>Papaver hybridum</i>
Saffron Thistle	<i>Carthamus lanatus</i>
Scarlet Pimpernel	<i>Anagallis arvensis</i>
Shepherd's Purse	<i>Capsella bursa-pastoris</i>
Skeleton Weed	<i>Chondrilla juncea</i>
Sorrel	<i>Rumex</i> spp.
Stemless Thistle	<i>Onopordum acaulon</i>
Toad Rush	<i>Juncus bufonius</i>
Tree Hogweed	<i>Polygonum patulum</i>
Turnip Weed	<i>Rapistrum rugosum</i>
Variegated Thistle	<i>Silybum marianum</i>
Vetch (Tares)	<i>Vicia sativa</i>
Volunteer Lupins	<i>Lupinus</i> spp.
Wild Radish	<i>Raphanus raphanistrum</i>
Wild Turnip	<i>Brassica tournefortii</i>
Wireweed (Hogweed)	<i>Polygonum aviculare</i>

GENERAL INSTRUCTIONS

Crop Tolerance Cereals: After application some transient crop yellowing may occur. This usually appears as yellow or white banding on leaves. Provided the crop is not under stress from pre-emergent herbicide, root disease, insect damage, frost, dry or excessively moist conditions, the development of the crop and subsequent growth will be unaffected.

Warning (Oats): The tolerance of all oat varieties to TITAN Diflufenican Bromoxynil MCPA Herbicide has not been tested. Test a small area of crop before using TITAN Diflufenican Bromoxynil MCPA Herbicide over large areas of the varieties with which you don't have experience. Consult your local TITAN AG Pty Ltd representative for advice on specific varieties.

SUBSEQUENT CROPS

To reduce effect on subsequent susceptible crops (e.g. Canola), ensure thorough cultivation of soil prior to the sowing of these crops.

MIXING

To ensure even mixing, half fill the spray tank with clean water and add the required amount of product. Agitate thoroughly then add the remainder of the water. Agitate again before spraying commences. Reseal part-used product container immediately after use. Spray mixtures containing TITAN Diflufenican Bromoxynil MCPA Herbicide should not be left to stand overnight. Prolonged periods of exposure to cold temperatures could result in settling out of the product in the mixture.

Warning: The rubber components present in some spraying units may be affected by exposure to the solvents in TITAN Diflufenican Bromoxynil MCPA Herbicide and some other agricultural products. To reduce this risk it is recommended that the spray unit be thoroughly washed with a boom cleaner and fresh water after use. Contact the spray unit manufacturer to determine the suitability of the rubber components for use with agricultural products.

COMPATIBILITY

DO NOT use crop oils with TITAN Diflufenican Bromoxynil MCPA Herbicide or TITAN Diflufenican Bromoxynil MCPA Herbicide tank mixtures with other products in cereals. As formulations of other manufacturer's products are beyond the control of TITAN AG, all mixtures should be tested prior to mixing commercial quantities.

APPLICATION

Boom Sprayer: A minimum of 50L of water per hectare should be used, however, for optimum results water rates of 70-100L/ha are recommended. Increase the water volume if weed infestation is heavy or crop cover is dense. Complete coverage of weeds is essential.

Aircraft (NSW, VIC, SA only): Apply in a minimum of 30L water per hectare. Effective weed control will only be achieved where good coverage of leaf surface is achieved.

RESISTANT WEEDS WARNING

TITAN Diflufenican Bromoxynil MCPA Herbicide is a member of the nicotinamide, nitrile and phenoxy groups of herbicides and acts by inhibiting carotenoid biosynthesis at the phytoene desaturase step (PDS inhibitors), inhibiting photosynthesis at photosystem II (PS II inhibitors) and disrupting plant cell growth. For weed resistance management TITAN Diflufenican Bromoxynil MCPA Herbicide is a Group F, Group C and Group I herbicide. Some naturally occurring weed biotypes resistant to TITAN Diflufenican Bromoxynil MCPA Herbicide and other Group F, C and I 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 Diflufenican Bromoxynil MCPA Herbicide or other Group F, Group C or Group I 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 Diflufenican Bromoxynil MCPA Herbicide to control resistant weeds.



PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spraying equipment, that may cause drift onto nearby susceptible plants/crops, cropping lands or pastures. Avoid spray drift and vapour movement onto susceptible crops such as cotton, tobacco, tomatoes, vines, lupins, fruit trees and ornamentals.

PROTECTION OF LIVESTOCK

Grazing Precaution: Sprayed weeds may become more palatable to stock and a higher intake of some weeds may result in stock poisoning and death from causes such as nitrate poisoning. Care should be taken especially where Capeweed, Paterson's Curse and Variegated Thistles predominate in the pasture. Avoid grazing with young or breeding stock.

DO NOT graze horses or pigs on Paterson's Curse. If in doubt, contact your nearest Department of Agriculture.



PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. This container can be recycled if it is clean, dry, free of visible residues and has the *drumMUSTER* logo visible. Triple rinse container for disposal. Dispose of rinsate by adding it to the spray tank. DO NOT dispose of undiluted chemical on-site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any *drumMUSTER* collection or similar container management program site. The cap should not be replaced, but may be taken separately. 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.

Returnable container with Micro Matic Valve (60L, 110L): Store the original sealed container in a cool well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the container 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 container have been used, please return the container to the point of purchase. The container remains the property of TITAN AG Pty Ltd.

1000L: Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. 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 advised immediately. This minibulk 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.

SAFETY DIRECTIONS

Product is harmful if inhaled or swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Avoid contact with the eyes and skin. Avoid inhaling vapour. When opening the container and preparing spray by open mixing equipment wear cotton overalls, over normal clothing, buttoned to the neck and wrist and a washable hat, elbow-length chemical resistant gloves and face shield or goggles. When opening the container and preparing spray by closed mixing equipment wear cotton overalls, buttoned to the neck and wrist and a washable hat and elbow-length chemical resistant gloves and face shield or goggles. When applying by boom spray or aerial spraying equipment wear cotton overalls, buttoned to the neck and wrist and a washable hat (or equivalent clothing) and elbow-length chemical resistant gloves. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, face shield or goggles 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 Diflufenican Bromoxynil MCPA Herbicide is available from TITAN AG Pty Ltd on request. Call Customer Service on (02) 9999 6655 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.

Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: Combustible liquid. Harmful if swallowed. Toxic if inhaled. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. Very toxic to aquatic life with long lasting effects. Precautionary Statements: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing 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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. In case of fire: Use to extinguish: CO₂, powder or water spray. 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 regulations.

