

# POISON

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

**TITAN**

## DBM 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 **12 5 4** HERBICIDE

Crop/situations: Winter Cereals.

Controls/Suppresses: Certain broadleaf weeds as per Directions For Use.

APVMA Approval No.: 90054/127234

Pack Size: 5-1000L



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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<br>Wheat,<br>Barley,<br>Triticale,<br>Cereal Rye | Wild Radish   | Up to the 2 leaf stage and not more than 60mm in diameter          | WA only  | 250mL   | <b>Wheat, Barley, Triticale, Cereal Rye</b><br><b>Wild Radish:</b> Up to the 2 leaf stage and not more than 60mm in diameter.<br><b>WA only:</b> 250mL<br><b>Warning:</b> Temperatures above 20°C during and up to a week after application can significantly increase crop effects. Before applying TITAN DBM Herbicide, refer to the “Crop Tolerance” section of the General Instructions.<br><b>Cereals:</b> TITAN DBM 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.<br><b>CROP STAGE</b><br><b>Cereals:</b> 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.<br><b>WEED STAGE</b><br>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"><li>• high crop and weed density;</li><li>• late season germinations;</li><li>• abnormal weed growth (including early flowering), higher rates of product (up to the maximum rate of application specified for that weed) may be required.</li></ul> TITAN DBM Herbicide will not effectively control: <ul style="list-style-type: none"><li>• regrowth of suppressed weeds;</li><li>• transplanted weeds;</li><li>• regrowth from rhizomes or roots;</li><li>• weeds growing under stress from previous herbicide applications.</li></ul> <b>GRAZING</b><br>Efficacy on larger weeds will be improved by grazing with normal levels of stock after the 14 day withholding period. Refer to ‘Protection of Livestock’ for grazing precautions. |                   |
|  |   | Up to the 4 leaf stage and not more than 120mm in diameter         | ALL STATES   | 500mL   |   |                   |
|  |   | Up to the 6 leaf stage and not more than 150mm in diameter         |  | 750mL   |   |                   |
|  |   | Up to the 8 leaf stage and not more than 180mm in diameter         |  | 1.0L    |   |                   |
|  | 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          |  | 500mL   |   |                   |
|  |   | Up to the 4 leaf stage and not more than 120mm in diameter         |  | 750mL   |   |                   |
|  |   | Up to the 6 leaf stage and not more than 150mm in diameter         |  | 1.0L    |   |                   |
|  | London Rocket   | Up to the 5 leaf stage and not more than 120mm in diameter         | QLD only   | 750mL   |   |                   |
|  | Ward’s Weed   |  | SA only  |         |   |                   |
|  | Capeweed  | Up to the 2 leaf stage and not more than 60mm in diameter          | ALL STATES   | 500mL   |   |                   |
|  |   | Up to the 4 leaf stage and not more than 120mm in diameter         |  | 1.0L    |   |                   |
|  | Crassula  | Up to the 2 leaf stage   |  | 500mL   |   |                   |
|  |   | Up to the 4 leaf stage   |  | 750mL   |   |                   |
|  | Prickly Lettuce   | Up to the 2 leaf stage   |  | 500mL   |   |                   |
|  |   | Up to the 4 leaf stage   |  | 750mL   |   |                   |
|  |   | Up to the 6 leaf stage   |  | 1.0L    |   |                   |
|  | Dense-flower Fumitory   | Up to the 2 leaf stage   |  |         |   | 750mL             |
|  | Amsinckia, Capeweed, Chamomile, Charlock, Corn Gromwell, Fat Hen, Field Madder, Hexham Scent, Horned Poppy, Indian Hedge Mustard, Lesser Swinecress, Mexican Poppy, Mintweed, Patersons Curse, Rough Poppy, Saffron Thistle, Shepherd’s Purse, Slender Thistle, Tree Hogweed, Turnip Weed, Wild Radish, Wild Turnip | Plants up to the 6 leaf stage but not more than 50mm in diameter   | WA only  | 1.0L    |   |                   |
|  | Fumitory, Doublegee   | Plants up to the 4 leaf stage but not more than 6cm in diameter    |  |         |   |                   |
|  | Variegated Thistle, Wireweed#   | Plants up to the 4 leaf stage but not more than 3.5 cm in diameter |  |         |   |                   |
|  | Mountain Sorrel, Three-horned Bedstraw  | Plants up to the 6 leaf stage                                      |  |         |   |                   |
|  | Cleavers  | 2-4 stem stage and 1-3 whorls of leaves per stem                   | ALL STATES   | 1.0L    |   |                   |
|  | Corn Gromwell, Saffron Thistle, Toad Rush   | Up to the 2 leaf stage   |  |         |   |                   |
|  | 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)<br>SA only (Eyre peninsula north of the line between Venus Bay and Cowell) | 350 mL  |   |                   |

continued overleaf

continued overleaf

| CROP   | WEEDS CONTROLLED  | STAGE OF WEED GROWTH   | STATE                                      | RATE/ha | CRITICAL COMMENTS   |
|--|---|------------------------|--|---------|---|
| CEREALS<br>Wheat,<br>Barley,<br>Triticale,<br>Cereal Rye<br>– <i>continued</i> | <b>SUPPRESSION of the following weeds</b>   |                        |  |         |   |
|  | Saffron Thistle   | Up to the 6 leaf stage | QLD, NSW,<br>ACT, VIC, TAS,<br>SA, NT only | 1.0L    | <i>Continued from previous page</i><br><br><b>WILD RADISH</b><br>TITAN DBM 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"> <li>• rates lower than 1.0L/ha are used;</li> <li>• dry conditions prevail;</li> <li>• poor coverage of the soil surface is achieved;</li> <li>• crop is planted in non-wetting sand;</li> <li>• soils contain a high content of organic matter.</li> </ul> Optimum results will be obtained if good soil moisture exists at and after application.<br><br><b>APPLICATION</b><br>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.<br><br># Where Wireweed occurs in red soils of low fertility it has been found to be less susceptible. |
|  | 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 14 DAYS AFTER APPLICATION.**

| WEED LIST                          |  |
|------------------------------------|--|
| Common name                        | Scientific name  |
| Amsinckia                          | <i>Amsinckia</i> spp.                                  |
| Canola (Rape)                      | <i>Brassica napus</i>                                  |
| Capeweed                           | <i>Arctotheca calendula</i>                            |
| Chamomile                          | <i>Matricaria matricarioides</i>                       |
| Charlock                           | <i>Sinapis arvensis</i>                                |
| Chickweed                          | <i>Stellaria media</i>                                 |
| Cleavers                           | <i>Galium aparine</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>                               |
| Field Madder                       | <i>Sherdaria arvensis</i>                              |
| Fireweed                           | <i>Senecio</i> spp.                                    |
| Fumitory                           | <i>Fumaria</i> spp.                                    |
| Hedge Mustard                      | <i>Sisymbrium officinale</i>                           |
| Hexham Scent (King Island Melilot) | <i>Mellilotus indicus</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>                            |
| Lesser Swinncress                  | <i>Coronopus didymus</i>                               |
| London Rocket                      | <i>Sisymbrium irio</i>                                 |
| Long Storksbill                    | <i>Erodium botrys</i>                                  |
| Marshmallow                        | <i>Malva parviflora</i>                                |
| Mouse-eared Chickweed              | <i>Cerastium glomeratum</i>                            |
| Mexican Poppy                      | <i>Argemone mexicana</i>                               |
| Mintweed                           | <i>Salvia reflexa</i>                                  |
| Mountain Sorrel                    | <i>Oxalis acetosella</i>                               |
| Night-scented Stock                | <i>Matthiola longipetala</i>                           |
| Paterson's Curse                   | <i>Echium plantagineum</i>                             |
| Peppergrass                        | <i>Lepidium</i> spp.                                   |
| Prickly Lettuce                    | <i>Lactuca serrilola</i>                               |
| 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>                               |
| Slender Thistle                    | <i>Cordus tenuiflorus</i> ,<br><i>C. pycnocephalus</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.                                    |
| Ward's Weed                        | <i>Carrichtera annua</i>                               |
| 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.

Some pre-emergence herbicides, such as atrazine, can cause stress to certain crops resulting in an increase in crop damage when using this product. Subterranean Clover is particularly sensitive.

## SUBSEQUENT CROPS

To reduce effect on subsequent susceptible crops (eg. 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 DBM 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 DBM 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 DBM Herbicide or TITAN DBM 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 DBM Herbicide is a member of the **GROUP 12, 5, 4 HERBICIDE** nicotinanilide, 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 DBM Herbicide is a Group 12, Group 5 and Group 4 herbicide. Some naturally occurring weed biotypes resistant to TITAN DBM Herbicide and other Group 12, Group 5 and Group 4 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 DBM Herbicide or other Group 12, Group 5 and Group 4 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 DBM 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 [titanag.com.au](http://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. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May damage fertility or the unborn child. May cause respiratory irritation. 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 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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. If eye irritation persists: Get medical advice/attention. In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish. 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.

