

CAUTION

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

TITAN

2,4-DB 500 SL HERBICIDE

ACTIVE CONSTITUENT: 500 g/L 2,4-DB present as the DIMETHYLAMINE SALT

GROUP **4** HERBICIDE



For the control of broadleaf weeds in seedling and established Lucerne, Medic and Clover pastures, Peanuts and cereal crops undersown with Lucerne, Medic or Clover as specified in the Directions for Use table.
THIS IS A PHENOXY HERBICIDE THAT CAN CAUSE SEVERE DAMAGE TO NATIVE VEGETATION AND SUSCEPTIBLE CROPS SUCH AS COTTON, GRAPES, TOMATOES, OILSEED CROPS AND ORNAMENTALS

APVMA Approval No.: 88368/136278

Pack Size: 5L-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 rain is expected within 4 hours.

DO NOT apply to crop or weeds under stress (not actively growing) due to periods of extreme cold or heat, moisture stress (water logged or drought affected), poor nutrition or previous herbicide treatments as increased levels of crop effect and/or reduced levels of weed control may result.

DO NOT use with hard water (>500ppm) or water containing suspended matter.

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

SITUATION & CROP	WEEDS CONTROLLED	STATE	RATE/ha	CRITICAL COMMENTS
Lucerne – seedling and established	Amaranth <i>Amaranthus</i> spp. Burs - Bathurst <i>Xanthium spinosum</i> - Californian <i>Xanthium orientale</i> - Noogoora <i>Xanthium strumarium</i> Capeweed <i>Arctotheca calendula</i> Charlock <i>Sinapis arvensis</i> Dock (seedlings) <i>Rumex</i> spp. Evening Primrose <i>Oenothera stricta</i> Fat Hen <i>Chenopodium album</i> Fumitory <i>Fumaria</i> spp. Marshmallow <i>Malva parviflora</i> Mexican Poppy <i>Argemone</i> spp. Mustards <i>Sisymbrium</i> spp. Paterson's Curse (Salvation Jane) <i>Echium plantagineum</i> Plantains (Flat Weeds) <i>Plantago</i> spp. Prickly Lettuce <i>Lactuca serriola</i> Shepherd's Purse <i>Capsella bursapastoris</i> Sowthistle <i>Sonchus oleraceus</i> Spiny Emex (Doublegee) <i>Emex australis</i> Stinging Nettle <i>Urtica urens</i> Thistles - Saffron <i>Carthamus lanatus</i> - Slender <i>Carduus pycnocephalus</i> - Soldier <i>Picnemon acarna</i> - Spear <i>Cirsium vulgare</i> - Variegated <i>Silybum marianum</i> Turnip Weed <i>Rapistrum rugosum</i> Wild (Mediterranean) Turnip <i>Brassica tournefortii</i> Wireweed <i>Polygonum aviculare</i>	ALL STATES	1-3.2L	Spray seedling weeds at the 2-6 leaf stage when seedling lucerne has between 1-8 trifoliate leaves. Use lower end of rate range only for 2-4 leaf weeds under good growing conditions or for spray grazing. Small weeds which have been growing slowly under stress and are therefore physiologically older may not be well controlled. To avoid leaf distortion cut or graze established lucerne before spraying. Unless "Spray-Grazing" DO NOT cut, mow or graze for 4 weeks after application to maximise weed control.
Clover and Medic Pastures – seedling and established Legumes showing acceptable tolerance Clover - Arrow leaf cvs Cefalu, Zulu II - Balansa cvs Bolta, Frontier, Paradana - Berseem cv Elite II - Persian cvs Nitro, Lazer, Leeton, Prolific, Shaftal - Rose cv Hykon - Red - Sub cvs Coolamon, Dalkeith, Gosse, Goulburn, June, Nungarin, Riverina, Seaton Park, Trikkala, Urana - White cv NuSiral etc Medic - Barrel cvs Caliph, Parabinga - Burr (polymorpha) cv Circle Valley - Gama cvs Paraponto, Sapo - Murex cv Zodiac - Snail cvs Robinson, Sava Serradella - French cv Erica	Refer to Weeds Controlled in Lucerne	ALL STATES	1-3.2L	Spray weeds at the 2-6 leaf stage when seedling Medic and Clover have between 1-8 trifoliate leaves. Use lower end of rate range only for 2-4 leaf weeds under good growing conditions or for spray grazing. Medic and Clover safety TITAN 2,4-DB 500 SL Herbicide may reduce initial vigour of most pasture legumes. Depending on inherent tolerance this may not result in reduced spring growth or seed yield. Tolerance can vary between seasons, legume type and cultivars. Because of the continuing introduction of new pasture legumes and cultivars, caution is advised before applying TITAN 2,4-DB 500 SL Herbicide to any new legume. Caution is especially advised if a treated crop is intended for seed production. Application beyond the 8 trifoliate leaf stage can increase the chance of reduced vigour and production. The use of higher rates can also increase vigour reduction. DO NOT exceed 3L/ha when spraying Robinson or Sava Snail Medic. DO NOT exceed 2.5L/ha when spraying Sapo or Paraponto Gama Medic. DO NOT use on Berseem Clover or on Red Clover when it is being harvested for seed. Growth of Red Clover may be retarded. TITAN 2,4-DB 500 SL Herbicide is unsafe to use on Biserrula, Gland Clover, Popany Vetch and Orion, Santiago & Serena Medics due to the risk of excessive growth and seed. TITAN 2,4-DB 500 SL Herbicide is unsafe to use on chicory and plantain.

SITUATION & CROP	WEEDS CONTROLLED	STATE	RATE/ha	CRITICAL COMMENTS
Sown Pasture containing Clover or Medics	Refer to Weeds Controlled in Lucerne	ALL STATES	1-3.2L	Apply when Clovers or Medics are at the 1-8 trifoliate leaf stage. Grass seedlings should have 3 or more leaves. Medic and Clover safety refer to the Critical Comments above.
Sub. Clover pasture	Doublegee <i>Emex australis</i>	WA only	1.2L	Spray when Doublegee has less than 14 leaves: best results are obtained when weed has 6-8 leaves. Clover should have 2-8 trifoliate leaves. DO NOT apply to pastures when one or more false breaks in the season occur, as uneven germination will result. Doublegee which emerge after spraying will not be controlled. Medic and Clover safety refer to the Critical Comments above.
Peanuts - Runner types - Virginia types - Spanish types	<i>Ipomoea</i> spp. including - Bellvine <i>Ipomoea plebeia</i> - Morning Glory <i>Ipomoea purpurea</i> - Red Convolvulus <i>Ipomoea hederifolia</i> Spiny Emex <i>Emex australis</i> Thornapples <i>Datura</i> spp.	QLD only	1.3-1.7L	Apply between 1 and 12 weeks after seedlings have emerged. Use the lower end of the rate range for control of <i>Ipomoea</i> spp. weeds only.
Wheat, Barley, Oats, Triticale & Cereal Rye Undersown with Lucerne, Medic or Clover	Refer to Weeds Controlled in Lucerne	ALL STATES	2.1-3.2 L	Spray weeds at the 2-6 leaf stage when seedling Lucerne, Medic and Clover has between 1-8 trifoliate leaves. Use lower rate for 2-4 leaf weeds under good growing conditions. Apply to cereals after the "double ridge" stage which is normally through tillering after the main shoot has five leaves until booting (Z15-33). The time to "double ridge" stage will vary depending on growing conditions and variety. Medic and Clover safety refer to the Critical Comments above.
Spot spraying (All Situations)	Refer to Weeds Controlled in Lucerne		200-400mL/ 100L water	Use lower rate for easy to kill weeds eg. Fat Hen or Variegated Thistle. For harder to kill weeds eg Capeweed, Marshmallow, use higher rate. Where difficult to wet, hairy or very thick weed populations are present, add Chemwet 1000 to the spray mixture at a rate of 65mL/100L water.

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

WITHHOLDING PERIOD:

DO NOT GRAZE OR CUT FOR STOCK FEED FOR 7 DAYS AFTER APPLICATION.

GENERAL INSTRUCTIONS

Before opening, carefully read Directions for Use, Precautionary Statements, Safety Directions and First Aid Instructions.

SPRAY APPLICATIONS

USE ONLY COARSE droplet size.

For aerial application it is recommended where possible for this product to be applied by an aerial applicator business that holds current accreditation for the Aerial Improvement Management System – “AIMS”, issued by the Aerial Agricultural Association of Australia Ltd.

For Further information contact TITAN AG Pty Ltd and consult spraywisedecisions.com.au – this is an online weather forecasting program and is recommended for use when planning your pesticide application.

When spraying in or near a Cotton area, check online at cottonmap.com.au for the proximity of Cotton fields.

MIXING

Mix with the required amount of water in the spray tank or mixing vessel.

Apply using a low-volume boom spray fitted with fan jets, or by aircraft. Use mains or rain water for mixing. If not available, water with a hardness of less than 500ppm (expressed as calcium carbonate equivalent) can be used but is not preferred.

DO NOT tank mix Ammonium Sulphate with TITAN 2,4-DB 500 SL Herbicide in hard water for this may cause nozzle blockages.

APPLICATION

Apply using boom or spot spray equipment. Application must be uniform.

Nozzle type, output, speed and pressure should be adjusted to deliver Coarse droplets in 110-220 litres per hectare by ground application and a minimum of 40 litres of water per hectare by aerial application.

RESISTANT WEEDS WARNING

TITAN 2,4-DB 500 SL Herbicide is a member of the Phenoxys group of herbicides. TITAN 2,4-DB 500 SL Herbicide has the disruptors of plant cell growth mode of action. For weed resistance management TITAN 2,4-DB 500 SL Herbicide is a group 4 herbicide. Some naturally-occurring weed biotypes resistant to TITAN 2,4-DB 500 SL Herbicide and other disruptors of plant cell growth 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 2,4-DB 500 SL Herbicide or other disruptors of plant cell growth 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 2,4-DB 500 SL Herbicide to control resistant weeds.

GROUP 4 HERBICIDE

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

Drift Warning: DO NOT apply under meteorological conditions or from spraying equipment which could be expected to cause spray drift onto nearby susceptible plants, adjacent crops, crop 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

Spray-Grazing Warning: Some pasture weeds can be controlled by Spray-Grazing a combination of herbicide treatment followed by heavy grazing 7-10 days later. Sprayed weeds become more palatable to stock and a higher intake of some weed species after spraying can cause stock deaths and other problems. Increased quantities of poisonous plants may be eaten by stock when the Spray-Grazing technique is being used. Take care if pastures are dominated By Caltrop, Capeweed, Cape Tulip, Paterson's Curse (Salvation Jane) or Variegated Thistle. With Paterson's Curse preferably graze stock soon destined for slaughter and avoid extended periods of grazing. Avoid grazing with young or breeding stock.

DO NOT graze horses or pigs in Paterson's Curse (Salvation Jane) infested pasture.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or watercourses with this product or used containers.

STORAGE AND DISPOSAL

KEEP OUT OF REACH OF CHILDREN. 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 or designated collection point for refill or storage. 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 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.

SAFETY DIRECTIONS

Poisonous if swallowed. May irritate the eyes and skin. This product is alkaline. Avoid contact with the eyes and skin. DO NOT inhale spray mist. When preparing spray, wear cotton overalls buttoned to the neck and wrist and washable hat, elbow-length PVC gloves and face shield. When using the prepared spray wear cotton overalls buttoned to the neck and wrist and washable hat. If product on skin, immediately wash area with soap and water. 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, face shield and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126; New Zealand 0800 764 766.

SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for TITAN 2,4-DB 500 SL 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: Harmful if swallowed. Toxic to aquatic life with long lasting effects. Precautionary Statements: Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. Collect spillage. Dispose of contents/container in accordance with local/regional/national regulations.

