CAUTION

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

TITAN

PICLORAM + MCPA 242
HERBICIDE

ACTIVE CONSTITUENTS: 420g/L MCPA present as POTASSIUM SALT
26g/L PICLORAM present as POTASSIUM SALT

GROUP **4** HERBICIDE



For the control of Climbing Buckwheat, Common Sowthistle, Skeleton Weed, Capeweed, Doublegee and other broadleaf weeds in winter cereals and linseed crops, as specified in the Directions For Use table.

APVMA Approval No.: 62486/124823

Pack Size: 5L-1000L

TITAN AG
CROP PROTECTION

TITAN AG Pty Ltd | ABN 57 122 081 574
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SL Formulation Type **Soluble Liquid Concentrate**

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 to crops or weeds which are not actively growing or to plants which may be stressed (not actively growing) due to prolonged periods of extreme cold, moisture stress (water-logged or drought affected) or previous herbicide treatment, as crop damage or reduced levels of control may result.

DO NOT use in high winds.

DO NOT spray if rain is likely to occur within four hours.

DO NOT apply close to, or on areas, containing roots of desirable vegetation, where treated soil may be washed into areas growing, or to be planted to, desirable plants, or on sites where surface water from heavy rain can be expected to run off to areas containing, or to be planted to, susceptible crops or plants.

DO NOT move soil which may have been sprayed to areas where desirable plants are to be grown.

Table 1: NEW SOUTH WALES and QUEENSLAND only

CROP	CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE/ha	CRITICAL COMMENTS
Barley, Canary Grass, Oats, Triticale, Wheat	Apply from early tillering (when the main shoot has 4-5 leaves and 2 or more new tillers have formed) to start of jointing (first node (Z30))	Climbing Buckwheat (Black Bindweed)	Up to 6 leaf	1L	For best control of Climbing Buckwheat apply at early tillering as this weed becomes increasingly difficult to control as it becomes larger. To avoid possible crop damage, DO NOT spray outside the early tillering to early jointing stage.
		Common Sowthistle, Doublegee (Spiny Emex), Mustard, Saffron Thistle, Skeleton Weed, Turnip Weed, Variegated Thistle, Wild Radish, Wild Turnip	Young rosette or seedling plants up to 8 true leaves		
		NZ Spinach, Wireweed	Up to 4 leaf		Suppression only – spray early.
Barley, Triticale, Wheat		Common Sowthistle, NZ Spinach, Wireweed	Apply up to 4 leaf stage.	800mL + 5g TITAN Metsulfuron 600WG	Add a 100% concentrate non-ionic surfactant (eg TITAN Wetspray 1000) at the rate of 100mL/100L water.
Linseed, Linola	Apply when crop is 8-20cm high	Climbing Buckwheat (Black Bindweed), Doublegee (Spiny Emex), Mustard, Saffron Thistle, Skeleton Weed, Variegated Thistle, Wild Radish, Wild Turnip	Young rosette or seedling plants up to 4 true leaves	670 to 840mL	Use the higher rate when Climbing Buckwheat is present or weed growth is advanced.
		NZ Spinach, Wireweed	Up to 2 leaf		Suppression only – spray early.

Table 2: WESTERN AUSTRALIA only

CROP	CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE/ha	CRITICAL COMMENTS
Barley, Canary Grass, Oats, Triticale, Wheat	Apply from 3 leaf to early tillering (when the main shoot has 4-5 leaves and 2 or more new tillers have formed) to start of jointing (first node (Z30))	Capeweed, Doublegee, Saffron Thistle, Turnip Weed, Wild Mustard, Wild Turnip	Young rosette or seedling plants up to 4 true leaves	600mL	To avoid possible crop damage, DO NOT spray outside the early tillering to early jointing stage.
		Capeweed, Doublegee, Saffron Thistle, Turnip Weed, Wild Mustard, Wild Turnip	Young rosette or seedling plants up to 6 true leaves	750mL	**Caution:** DO NOT use this product where the land to be treated will be sown to lupins or peas the following year or where a volunteer medic or sub-clover pasture is required in the following season. Only use when a cereal crop will follow the cereal crop to be treated.
		Wireweed	Up to 4 leaf		Suppression only – spray early.
	Apply from early to mid-tillering	Docks, Sorrel	Active growth	1L	

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

WITHHOLDING PERIODS:

DO NOT GRAZE OR CUT CROPS OR PASTURES FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION.

HARVEST: NOT REQUIRED WHEN USED AS DIRECTED.

TITAN AG CROP PROTECTION

MINIMUM RECROPPING PERIODS: Picloram, one of the active constituents in this product, remains active in the soil for extended periods depending on rate of application, soil type, rainfall, temperature, humidity, soil moisture and soil organic matter.

Northern New South Wales and Queensland

Plantback periods for rotational crops following application of TITAN Picloram + MCPA 242 Herbicide at 1L/ha on black cracking clay soils (Tabel below). These plantback periods are based on a normal rainfall pattern. During drought conditions (or when rainfall is less than 100mm for a period of 4 months after application) the plantback period may be significantly longer.

Winter Crop	Plantback Period (Months)	Summer Crop Plantback	Period (Months)
Wheat	2	Sorghum	2
Barley	2	Cotton	12
Canola	4	Mungbean	12
Chickpea	6	Soybean	12
Faba Bean	4		
Lucerne	9		

Western Australia and other soil types not mentioned above

DO NOT plant susceptible broadleaf crops within 12 months of applying the product.
Cereal crops and grasses can be sown safety after using TITAN Picloram + MCPA 242 Herbicide in crop weed control.

GENERAL INSTRUCTIONS

RESISTANT WEEDS WARNING

GROUP **4** HERBICIDE

TITAN Picloram + MCPA 242 Herbicide contains members of the pyridine and phenoxy groups of herbicides. The product has the disrupters of plant cell growth mode of action. For weed resistance management the product is a Group 4 Herbicide. Some naturally occurring weed biotypes resistant to the product and other 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 this product or other 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 this product to control resistant weeds.
Strategies to minimise the risk of herbicide resistance are available. Contact your farm chemical supplier, consultant, local Department of Agriculture, or local TITAN AG representative.

MIXING

TITAN Picloram + MCPA 242 Herbicide may be mixed with water only. Mix only sufficient chemical for each day's use and avoid storing mix. Half fill the spray tank with water and add the required quantity of TITAN Picloram + MCPA 242 Herbicide and complete filling. Agitate continuously to ensure thorough mixing before and during application.

Tank Mixtures: Wettable powder or dry flowable formulations (eg. water dispersable granules) should be added to the spray tank first, followed by suspension concentrates (flowables), water soluble salts and then emulsifiable concentrate formulations (TITAN Furoxypyr 200EC Herbicide). Add spraying oils and surfactants (wetters) last, if required.

COMPATIBILITY

TITAN Picloram + MCPA 242 Herbicide is compatible with the following (Read and follow all label directions, restraints, plant-back periods, withholding periods and safety directions on the partner label as well as those on the TITAN Picloram + MCPA 242 Herbicide label):

Broadleaf Herbicides

Eclipse* Herbicide, TITAN Clopyralid 300 Herbicide, MCPA LVE, metsulfuron-methyl, TITAN Furoxypyr 200EC Herbicide, 2,4-D amine, MCPA amine

Grass Herbicides

Diclofop 500 Herbicides (Annual Ryegrass only)
Clodinafop-propargyl Herbicides (Wild Oats and Phalaris only)

Adjuvants

Wetspray/BS-1000 (when mixed with metsulfuron-methyl)
Hotwire Spraying Oil (when mixed with clodinafop-propargyl)

Insecticides

Omethoate, TITAN Dimethoate 400 Systemic Insecticide

TITAN Picloram + MCPA 242 Herbicide is not compatible with zinc products (such as Zinc dextrase and Zinc heptahydrate), copper salts (such as sulphate) and manganese sulphate.

DO NOT use with hard water or water clarified with alum.

APPLICATION METHODS

A. Ground Application (Boom): Apply TITAN Picloram + MCPA 242 Herbicide with an accurately calibrated boom sprayer, in at least 50L/ha water.

DO NOT apply with smaller than medium to coarse spray droplets according to the ASABE S572 definition for standard nozzles. Set the boom at a height to ensure a double overlap of the nozzle pattern.

B. Aerial Application: Apply in a minimum volume of 35L/ha water. Use calibrated equipment.

DO NOT apply with smaller than medium to coarse spray droplets according to the ASABE S572 definition for standard nozzles.
DO NOT apply TITAN Picloram + MCPA 242 Herbicide by aircraft unless wind speed is more than 3 kilometres per hour and less than 15km/hr as measured at the application site and/or the air temperature is above 30^{0}C, or when the wind is blowing towards susceptible crops.

CLEANING SPRAY EQUIPMENT

Rinse water should be discharged onto a designated disposal area or, if this is unavailable, onto wasteland away from desirable plants and water courses.

Rinsing: After using TITAN Picloram + MCPA 242 Herbicide, empty the tank completely and drain the whole system. Thoroughly wash inside the spray unit using a pressure hose. Drain and clean any filters in the tank, pump, lines, hoses and nozzles. After cleaning the tank as above, quarter fill with clean water and circulate through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.

Decontamination (before spraying cotton and other sensitive crops; see PROTECTION OF CROPS): Wash the tank and rinse the system as above. Then quarter fill the tank and add an alkali detergent (eg. liquid SURF*, OMO* or DRIVE*) at 500mL/100L of water or the powder equivalent at 500g/100L and circulate throughout the system for at least 15 minutes. Drain the whole system. Remove the filters and nozzles and clean them separately. Finally flush the system with clean water and allow to drain.

PROTECTION OF CROPS, 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 crops and plants, cropping lands or pastures. Crops and plants susceptible to TITAN Picloram + MCPA 242 Herbicide include, but are not limited to clovers, medics, lupins, peas and other legumes, cotton, flowers, hops, grape and kiwi fruit vines, ornamentals, potatoes, safflower, shade trees, sugar beet, tobacco, tomatoes, tree fruits and vegetables.

DO NOT use on land to be cultivated for growing susceptible crops within 12 months of applying TITAN Picloram + MCPA 242 Herbicide. Susceptible crops and plants can be damaged by soil residues during both growing and dormant periods. In the season following application of this product the regeneration or establishment of sensitive legumes (clover, medics, peas, lupins) may be adversely affected by soil residues.

Cereal crops and grasses can be sown safely after using TITAN Picloram + MCPA 242 Herbicide. This product will kill legumes (clovers, medics) present in the crop at the time of spraying.

DO NOT apply close to or on areas containing roots of desirable vegetation, where treated soil may be washed to areas growing, or to be planted to desirable plants, or on sites where surface water from heavy rain can be expected to run-off to areas containing or to be planted to susceptible crops or plants.

DO NOT move soil which may have been sprayed to areas where desirable plants are to be grown. Cereal crops may be reduced in height following use of this product. This height reduction is a normal response and does not represent any yield loss.

TITAN AG CROP PROTECTION

DO NOT apply TITAN Picloram + MCPA 242 Herbicide to crops or pastures, which are to be used for the production of compost or mulches for use with susceptible crops or plants. The use of straw, hay or other plant material treated with TITAN Picloram + MCPA 242 Herbicide for composting or mulching susceptible crops may damage these crops.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT
DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

STORAGE AND DISPOSAL
Store in closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT store near feedstuffs, fertilisers or seed. 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 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.

For Refillable Containers: Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

Envirodrum Micro Matic Valve (110L): Store the original sealed Envirodrum 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 Envirodrum 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 Envirodrum have been used, please return the Envirodrum to the point of purchase. The Envirodrum remains the property of TITAN AG Pty Ltd.

SMALL SPILL MANAGEMENT
Wear protective equipment (See SAFETY DIRECTIONS). Apply absorbent material such as earth, sand, clay granules or cat litter to the spill. Sweep up material for disposal when absorption is completed and contain in a refuse vessel for disposal. (See STORAGE AND DISPOSAL section). If necessary, wash the spill area with an alkali detergent and water and absorb as above the wash liquid for disposal as directed above.

SAFETY DIRECTIONS
Harmful if swallowed. Attacks eyes. Will irritate the skin. Avoid contact with eyes and skin. If product in eyes, wash it out immediately with water. DO NOT inhale spray mist. When preparing the spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a 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 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 Picloram + MCPA 242 Herbicide is available from TITAN AG Pty Ltd on request. Call Customer Service on (02) 9999 6655 or visit 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. Causes eye irritation. Suspected of causing cancer. Repeated exposure may cause skin dryness and cracking. Precautionary Statements: Wear protective gloves and protective clothing. Wash all exposed external body areas thoroughly after handling. Do not eat, drink or smoke when using this product. Do not handle until all safety precautions have been read and understood. IF exposed or concerned: Get medical advice/ attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell. Rinse mouth. Store locked up. Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

* Other trademarks



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