



Product Name: TITAN PICLORAM + MCPA 242 HERBICIDE

APVMA Approval No: 62486/124823

Label Name:	TITAN PICLORAM + MCPA 242 HERBICIDE
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Signal Headings:	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
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Constituent Statements:	420g/L MCPA PRESENT AS THE POTASSIUM SALT 26g/L PICLORAM PRESENT AS THE POTASSIUM SALT
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Mode of Action:	GROUP I HERBICIDE
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Statement of Claims:	For the control of climbing buckwheat, common sowthistle, skeleton weed, capeweed, doublegee and other broadleaf weeds in winter cereals and linseed crops
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Net Contents:	5L - 1000L
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Restraints:	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.
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Directions for Use:	This section contains file attachment.
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Other Limitations:	
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Withholding Periods:	<p>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</p>
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Trade Advice:	
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General Instructions:	This section contains file attachment.
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Resistance Warning:	<p>RESISTANT WEEDS WARNING GROUP I HERBICIDE TITAN MCPA + Picloram 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 I Herbicide. Some naturally occurring weed biotypes resistant to the product and other Group 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 this product or other 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 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.</p>
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Precautions:	
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Protections:	<p>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 MCPA + Picloram 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 MCPA + Picloram 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.</p> <p>Cereal crops and grasses can be sown safely after using TITAN MCPA + Picloram 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</p>
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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. DO NOT apply TITAN MCPA + Picloram 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 MCPA + Picloram 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 watercourses with the chemical or used containers.

Storage and Disposal:

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight. Do not store near food, feedstuffs, fertilisers or seed. Triple rinse container 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 for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the 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 container or product.

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 (110 L): 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 the wash liquid for disposal as described above.

Safety Directions:

SAFETY DIRECTIONS

Harmful if swallowed. Attacks eyes and 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 Instructions:

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131 126; New Zealand 0800 764 766.

First Aid Warnings:

DIRECTIONS FOR USE

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		
Barley, Triticale, Wheat		NZ spinach, Wireweed	Up to 4 leaf	800mL + 5g Titan Metsulfuron 600 WG	Suppression only - spray early
		Common sowthistle, NZ spinach, Wireweed	Apply up to 4 leaf stage		Add a 100% concentrate non-ionic surfactant (eg 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		

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. 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. Suppression only - spray early
		Capeweed, Doublegee, Saffron thistle, Turnip weed, Wild mustard, Wild turnip	Young rosette or seedling plants up to 6 true leaves	750mL	
		Wireweed	Up to 4 leaf		
	Apply from early to mid-tillering	Docks, Sorrel	Active growth	1L	

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

GENERAL INSTRUCTIONS

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 MCPA + Picloram 242 Herbicide at 1 L/ha on black cracking clay soils (Table 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 safely after using TITAN MCPA + Picloram 242 Herbicide in crop weed control.

MIXING

TITAN MCPA + Picloram 242 Herbicide can 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 MCPA + Picloram 242 Herbicide and complete filling. Agitate continuously to ensure thorough mixing before and during application.

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

COMPATIBILITY

TITAN MCPA + Picloram 242 Herbicide is compatible with the following:

(Read and follow all label directions, restraints, plantback periods, withholding periods and safety directions on the partner label as well as those on the TITAN MCPA + Picloram 242 Herbicide label).

Broadleaf Herbicides: Eclipse* Herbicide, TITAN Clopyralid 300 Herbicide, MCPA LVE, metsulfuron-methyl, TITAN Fluroxypyr 200 EC 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 MCPA + Picloram 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 MCPA + Picloram 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 MCPA + Picloram 242 Herbicide by aircraft unless wind speed is more than 3km/hr and less than 15km/hr as measured at the application site and/or the air temperature is above 30°C, or when the wind is blowing toward 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 MCPA + Picloram 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.