



Product Name: Titan Imazapic 525 + Imazapyr 175 WG
APVMA Approval No: Herbicide 92478/135676

Label Name:	Titan Imazapic 525 + Imazapyr 175 WG Herbicide
Signal Headings:	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Constituent Statements:	ACTIVE CONSTITUENT: 525 g/kg IMAZAPIC 175 g/kg IMAZAPYR
Mode of Action:	GROUP 2 HERBICIDE
Statement of Claims:	For the early post-emergence control of certain annual grass and broadleaf weeds as part of the Clearfield Production Systems for canola and wheat, as specified in the DIRECTIONS FOR USE section of this label.
Net Contents:	250 g - 1 kg
Restraints:	This section contains file attachment.
Directions for Use:	This section contains file attachment.
Other Limitations:	
Withholding Periods:	WITHHOLDING PERIODS: CANOLA WITH CLEARFIELD TECHNOLOGY: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 6 WEEKS AFTER APPLICATION.

	<p>HARVEST FOR GRAIN - NOT REQUIRED WHEN USED AS DIRECTED.</p> <p>WHEAT WITH CLEARFIELD TECHNOLOGY: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 4 WEEKS AFTER APPLICATION.</p> <p>HARVEST FOR GRAIN - 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 2 HERBICIDE</p> <p>Titan Imazapic 525 + Imazapyr 175 WG Herbicide is a member of the Imidazolinone group of herbicides. The product has the inhibitors-of-acetolactatesynthase (ALS) mode of action. For weed resistance management, the product is a Group 2 herbicide. Some naturally-occurring weed biotypes resistant to the product and other Group 2 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 2 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 failure of this product to control resistant weeds.</p>
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Precautions:	<p>RE-ENTRY PERIOD FOR Titan Imazapic 525 + Imazapyr 175 WG Herbicide PLUS MCPA</p> <p>When tank-mixing Titan Imazapic 525 + Imazapyr 175 WG Herbicide with MCPA, do NOT allow entry into treated areas for 24 hours. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist and a washable hat, goggles and chemical resistant gloves. Clothing must be laundered after each day's use.</p>
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Protections:	<p>PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS</p> <p>Do NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures. This product may, in some circumstances, lead to transient crop yellowing and temporary slowing of growth but plants soon recover and yield is unaffected. This effect may be more pronounced when the product is used under poor growth conditions. Do NOT use this product on any canola variety other than certified canola varieties with Clearfield technology. Severe crop damage will result to any other canola varieties. Do NOT allow spray overlapping as crop injury may occur.</p> <p>PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT</p> <p>Do NOT contaminate streams, rivers or watercourses with the chemical or used containers.</p>
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Storage and Disposal:	<p>STORAGE AND DISPOSAL</p> <p>Store in the closed, original container, in a dry, cool, well-ventilated area. Do NOT store for prolonged periods in direct sunlight. 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.</p> <p>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 500 mm 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.</p>
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Safety Directions:	<p>SAFETY DIRECTIONS</p> <p>Will irritate the eyes and skin. Avoid contact with eyes and skin. When opening the container and preparing spray, wear elbow-length chemical resistant gloves and face shield or goggles. If product in eyes, wash it out immediately with water. After each day's use, wash gloves and face shield or goggles. Wash hands after use.</p> <p>When tank-mixing with MCPA or Titan Clopyralid 750SG Herbicide, consult also the safety directions for those products.</p>
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First Aid Instructions:	<p>FIRST AID INSTRUCTIONS</p> <p>If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126, New Zealand 0800 764 766</p>
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First Aid Warnings:	
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RESTRAINTS:

Apply ONLY to certified canola and wheat varieties with the Clearfield technology.

Do NOT apply to any other canola or wheat varieties.

Do NOT apply to crops which are stressed due to conditions such as waterlogging, frost, disease or nutritional disorders.

Do NOT apply by aircraft

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. The buffer zones in the relevant buffer zone table/s below provide guidance but may not be sufficient in all situations.

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.

DO NOT apply by a boom sprayer unless the following requirements are met:

- Spray droplets not smaller than a MEDIUM spray droplet size category.
- Minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'MANDATORY BUFFER ZONES') are observed.

Buffer zones for boom sprayers

Application rate	Mandatory downwind buffer zones
	Natural aquatic areas
Upto maximum label rate	50 metres

DIRECTIONS FOR USE

CROP	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
Canola varieties with Clearfield technology only	Wild oats/volunteer oats (<i>Avena</i> spp.), wild turnip (<i>Brassica tournefortii</i>), shepherd's purse (<i>Capsella bursa-pastoris</i>), wild radish (<i>Raphanus raphanistrum</i>), hedge mustard (<i>Sisymbrium officinale</i>), Indian hedge mustard (<i>S. orientale</i>), London rocket (<i>S. irio</i>)	20 g/ha plus Titan Duelling Spray Adjuvant at 0.5L/100L spray volume	Ensure follow-crop comments and restrictions on the label are consulted prior to use. Apply to crops in the 2 to 6 leaf stage. Apply early post-emergence to actively growing grass weeds in the 3 to 5 leaf stage (Z1.3 to 1.5) and broadleaf weeds in the 2 to 4 leaf stage (20 g rate) or grass weeds in the 3 leaf to 2 tillers stage (Z1.3 to 2.2) and broadleaf weeds in the 2 to 6 leaf stage (40 or 55 g rate). Where Titan Imazapic 525 + Imazapyr 175 WG Herbicide is used alone and annual ryegrass is a significant weed in the total weed population, use the 55 g/ha rate to achieve suppression. Weeds will either be killed or will be stunted and uncompetitive with the crop. Do NOT apply more than once per season to any one crop. Titan Imazapic 525 + Imazapyr 175 WG Herbicide is physically and biologically compatible with Titan Clopyralid 750SG Herbicide.
	Above weeds plus: Amsinckia (<i>Amsinckia</i> spp.), annual ryegrass* (<i>Lolium rigidum</i>), barley grass (<i>Hordeum leporinum</i>), bedstraw (<i>Galium tricornutum</i>), brome grass (<i>Bromus</i> spp.), climbing buckwheat (<i>Fallopia convolvulus</i>), clover (<i>Trifolium</i> spp.), corn gromwell (<i>Buglossoides arvensis</i>), crassula (<i>Crassula</i> spp.), deadnettle (<i>Lamium amplexicaule</i>),	40 or 55 g/ha plus Titan Duelling Spray Adjuvant at 0.5L/100L spray volume Refer to Critical Comments for rates of Titan Clopyralid 750 SG Herbicide	

	doublegee (<i>Emex australis</i>), fumitory (<i>Fumaria</i> spp.), Patersons curse (<i>Echium plantagineum</i>), Phalaris (<i>Phalaris</i> spp.), toadrush (<i>Juncus bufonius</i>), volunteer barley (<i>Hordeum vulgare</i>) volunteer canola (<i>Brassica napus</i>) (other than varieties with Clearfield technology), volunteer wheat (<i>Triticum aestivum</i>), wireweed (<i>Polygonum aviculare</i>)		
Canola varieties with Clearfield technology only	Suppression only: medics (<i>Medicago</i> spp.), silver grass (1 to 2 leaf only) (<i>Vulpia</i> spp.), storksbill (<i>Erodium</i> spp.), volunteer vetch (<i>Vicia</i> spp.)		Use higher rates when grasses are primary weeds in the paddock, and when their growth stage requires it, to ensure highest levels of control. Titan Clopyralid 750SG Herbicide aids in the control of legumes, prickly lettuce, capeweed and other thistle-like weed species. When these weeds require control apply a tank mix of Titan Imazapic 525 + Imazapyr 175 WG Herbicide and Titan Clopyralid 750SG Herbicide using the recommended label rate of Titan Clopyralid 750SG Herbicide. Rates of Titan Clopyralid 750SG Herbicide above 150mL/ha can impair grass control. #Where Group 1 and/or group 2 –resistant ryegrass is known to be present or ryegrass populations in excess of 200 plants per m2 are expected, an application of Titan Pendimethalin 440 EC Herbicide or TITAN TRIFLURALIN 480 SELECTIVE HERBICIDE should be made prior to sowing. DO NOT use Titan Imazapic 525 + Imazapyr 175 WG Herbicide at 40-55g/ha on shallow, strongly duplex soils in Western Australia.
Wheat varieties with Clearfield technology only	Wild oats/volunteer oats (<i>Avena</i> spp.), wild turnip (<i>Brassica tournefortii</i>),	20 g/ha plus Titan Duelling	Ensure follow-crop comments and restrictions on the label are consulted prior to use. Apply to crops in the 4 leaf (Z1.4) to commencement of flag leaf (Z3.7) stage.

	shepherd's purse (<i>Capsella bursa pastoris</i>), wild radish (<i>Raphanus raphanistrum</i>), hedge mustard (<i>Sysimbrium officinale</i>), Indian hedge mustard (<i>S. orientale</i>), London rocket (<i>S. irio</i>)	Spray Adjuvant at 0.5L/100L spray volume	Apply early post-emergence to actively growing grass weeds in the 3 to 5 leaf stage (Z1.3 to Z1.5) and broadleaf weeds in the 2 to 4 leaf stage (20 g rate) or grass weeds in the 3 leaf to 2 tillers stage (Z1.3 to Z2.2) and broadleaf weeds in the 2 to 6 leaf stage (40 g rate). Weeds will either be killed or will be stunted and uncompetitive with the crop. Do NOT apply more than once per season to any one crop.*Where ALS resistant ryegrass is known to be present or ryegrass populations in excess of 200 plants per m ² are expected, an application of a Group 3 herbicide, such as STOMP 440 Herbicide or trifluralin, should be made prior to sowing.
	Above weeds plus: Amsinckia (<i>Amsinckia</i> spp.), annual ryegrass* (<i>Lolium rigidum</i>), barley grass (<i>Hordeum leporinum</i>), bedstraw (<i>Galium tricornutum</i>), brome grass (<i>Bromus</i> spp.), climbing buckwheat (<i>Fallopia convolvulus</i>), clover (<i>Trifolium</i> spp.), corn gromwell (<i>Buglossoides arvensis</i>), crassula (<i>Crassula</i> spp.), deadnettle (<i>Lamium amplexicaule</i>), doublegee (<i>Emex australis</i>), fumitory (<i>Fumaria</i> spp.), Patersons curse (<i>Echium plantagineum</i>), Phalaris (<i>Phalaris</i> spp.), toadrush (<i>Juncus bufonius</i>), volunteer barley (<i>Hordeum vulgare</i>),	40 g/ha plus Titan Duelling Spray Adjuvant at 0.5L/100L spray volume	Do NOT use Titan Imazapic 525 + Imazapyr 175 WG Herbicide at 40 g/ha on shallow, strongly duplex soils in Western Australia.

	volunteer canola (<i>Brassica napus</i>) (other than varieties with Clearfield technology), volunteer wheat (<i>Triticum aestivum</i>), Wild oats/ Volunteer oats (<i>Avena</i> spp.), wireweed (<i>Polygonum aviculare</i>) Suppression only: Annual ryegrass# (<i>Lolium rigidum</i>) Medics (<i>Medicago</i> spp.), silver grass (1 to 2 leaf only) (<i>Vulpia</i> spp.), storksbill (<i>Erodium</i> spp.), volunteer vetch (<i>Vicia</i> spp.)		
Wheat varieties with Clearfield technology only	Above weeds plus: African turnip weed (<i>Sisymbrium thellungii</i>), capeweed (<i>Arctotheca calendula</i>), spear thistle (<i>Cirsium vulgare</i>), spreading night phlox (<i>Zaluzianskya divaricata</i>), turnip weed (<i>Rapistrum rugosum</i>), variegated thistle (<i>Silybum marianum</i>), volunteer canola (<i>Brassica napus</i>) Suppression only: cat's-ear (<i>Hypochaeris radicata</i>), common vetch	40 g/ha plus 455mL TITAN LVE MCPA 570 HERBICIDE/ha plus Titan Duelling Spray Adjuvant at 0.5L/100L spray volume	Ensure follow-crop comments and restrictions on the label are consulted prior to use. Apply to crops in the 4 leaf (Z1.4) to commencement of flag leaf (Z3.7) stage. Apply early post-emergence to actively growing grass weeds in the 3 leaf to 2 tillers stage (Z1.3 to Z2.2) and broadleaf weeds in the 2 to 6 leaf stage. Weeds will either be killed or will be stunted and uncompetitive with the crop. Do NOT apply more than once per season to any one crop.

	<i>(Vicia spp.)</i> , cotula <i>(Cotula australis)</i> , mintweed (<i>Salvia reflexa</i>), medics (<i>Medicago spp.</i>), prickly lettuce (<i>Lactuca</i> <i>serriola</i>), saffron thistle <i>(Carthamus lanatus)</i> , sowthistle (<i>Sonchus</i> <i>oleraceus</i>), volunteer faba beans (<i>Vicia faba</i>)		
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NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

GENERAL INSTRUCTIONS

Titan Imazapic 525 + Imazapyr 175 WG Herbicide is for use in canola and wheat varieties with Clearfield technology only. Varieties with Clearfield Technology are those which have been bred specifically to be tolerant to Titan Imazapic 525 + Imazapyr 175 WG Herbicide. Titan Imazapic 525 + Imazapyr 175 WG Herbicide is an early-post-emergence herbicide with some residual soil activity under good soil moisture conditions. Residual effects on weeds can be variable, where dry soil conditions follow the application of Titan Imazapic 525 + Imazapyr 175 WG Herbicide, because the herbicide is not freely available to weeds. Best weed control will be achieved when application is made to young weeds. The product must be mixed with TITAN LVE MCPA 570 HERBICIDE or Titan Duelling Spray Adjuvant as per the Directions for Use. Treated weeds will either die or will remain stunted and will not compete with the crop. Vigorous crop growth will assist in suppressing weeds not completely killed or germinating later.

MIXING

Titan Imazapic 525 + Imazapyr 175 WG Herbicide is a water dispersible granule formulation. Part-fill the spray tank with water, then with agitator running, add the required amount of product. Add the required quantity of adjuvant and if required, other compatible product, whilst filling the remainder of the tank.

APPLICATION

Do NOT apply by aircraft. Apply in a minimum 70 L water per hectare. In situations where grass weed populations exceed 200 plants per m², apply in a minimum 100 L water per hectare. When used alone, Titan Imazapic 525 + Imazapyr 175 WG Herbicide should be applied a minimum of two hours before rainfall or overhead irrigation. In mixtures with Titan Clopyralid 750SG Herbicide or MCPA, application should be made a minimum of three or six hours respectively, before rainfall or overhead irrigation.

EQUIPMENT CLEAN-UP

Thoroughly flush all spray equipment with water following the use of Titan Imazapic 525 + Imazapyr 175 WG Herbicide and before use with other products. After using in mixtures with MCPA, thoroughly clean all spray equipment, especially plastic spray lines, using ammonium solution or washing soda, before using on sensitive crops such as canola and legumes.

BEST MANAGEMENT PRACTICE (BMP) PROGRAMME

A detailed programme has been developed that outlines sound agronomic practices and integrated weed management programmes, designed to optimise the performance of the Clearfield Production System and minimise the potential for the development of herbicide resistance in weed populations. Consultation on BMP should be undertaken with a Clearfield-accredited agronomist prior to use of Titan Imazapic 525 + Imazapyr 175 WG Herbicide in the Clearfield Production Systems for canola and wheat. Implementation of the BMP is an essential part of herbicide resistance management.

FOLLOW CROPS

This product is broken down in the soil by microbes in wet, aerobic conditions. Under conditions which do not favour breakdown, carry-over soil residues can affect susceptible follow crops. Normally safe residue levels may still affect follow crops when soil nutrition is low or marginal, when cold and very wet soil conditions prevail, or when soil pathogens or nematodes are present. As

environmental and agronomic factors make it impossible to eliminate all risks associated with this product, rotational crop injury is always possible. Note: when the intention is to grow cereals on Clearfield canola stubble (treated with Titan Imazapic 525 + Imazapyr 175 WG Herbicide) self-sown canola volunteers must be removed at least eight weeks prior to sowing, all macro and micro-nutrients must be maintained at levels necessary to grow the planned crops, and sulfonylurea herbicides must not be used.

The following minimum re-cropping intervals (months after application) should be observed.

MONTHS AFTER APPLICATION - 20g/ha Rate (ALL STATES)

0	8	22	34
chick peas, faba beans, field peas, canola varieties with the Clearfield technology, wheat varieties with the Clearfield technology	lucerne, lupins, pasture legumes, vetch, *oats, *triticale, *barley, *wheat (except varieties with the Clearfield technology)	safflower	all other crops including canola

* The following additional requirements apply if it is intended to sow WHEAT (except varieties with the Clearfield technology), BARLEY, OATS or TRITICALE during the next winter season:

- Do NOT apply Titan Imazapic 525 + Imazapyr 175 WG Herbicide later than the end of August (no later than the end of July in WA).
- Do NOT use Titan Imazapic 525 + Imazapyr 175 WG Herbicide in areas where rainfall from spraying to sowing of cereals (except varieties with the Clearfield technology) is expected to be below 150 mm.

MONTHS AFTER APPLICATION - 40 g/ha Rate (ALL STATES EXCEPT WA)

0	8	22	34
chickpeas, faba beans, field peas, canola varieties with Clearfield technology, wheat varieties with Clearfield technology	lucerne, lupins, pasture legumes, vetch, *oats, *triticale, *barley, *wheat (except varieties with Clearfield technology)	safflower	all other crops including all other canola

*The following additional requirements apply if it is intended to sow WHEAT (except varieties with Clearfield technology), BARLEY, OATS or TRITICALE during the next winter season:

- Do NOT apply Titan Imazapic 525 + Imazapyr 175 WG Herbicide later than the end of August.
- Do NOT use Titan Imazapic 525 + Imazapyr 175 WG Herbicide in areas where rainfall from spraying to sowing of cereals (except wheat varieties with Clearfield technology) is expected to be below 250 mm

MONTHS AFTER APPLICATION - 40 g/ha Rate (WA ONLY)

0	8	22	34
Chickpeas, faba beans, field peas, canola varieties with Clearfield technology	Lucerne, lupins, pasture, legumes, vetch, wheat varieties	Safflower, *oats, *triticale, *barley, *wheat	all other crops including all other canola

wheat varieties with Clearfield technology	with Clearfield technology only		
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* The following additional requirements apply if it is intended to sow WHEAT (except varieties with Clearfield technology), BARLEY, OATS or TRITICALE during the next winter season:

- Do NOT apply Titan Imazapic 525 + Imazapyr 175 WG Herbicide later than the end of July. Do NOT use Titan Imazapic 525 + Imazapyr 175 WG Herbicide in areas where rainfall from spraying to sowing of cereals (except wheat varieties with Clearfield technology) is expected to be below 250 mm in the first 10 months after spraying

MONTHS AFTER APPLICATION - 55 g/ha Rate (ALL STATES EXCEPT WA)

0	8	22	34
canola varieties with Clearfield technology wheat varieties with Clearfield technology	Chickpeas, faba beans field peas, *triticale, *barley, *wheat	Lucerne, lupins, oats, pasture, legumes, vetch	all other crops including all other canola

* The following additional requirements apply if it is intended to sow WHEAT (except varieties with Clearfield technology), BARLEY or TRITICALE during the next winter season:

- Do NOT apply Titan Imazapic 525 + Imazapyr 175 WG Herbicide later than the end of July.
- Do NOT use Titan Imazapic 525 + Imazapyr 175 WG Herbicide in areas where rainfall from spraying to sowing of cereals (except wheat varieties with Clearfield technology) is expected to be below 350 mm.

MONTHS AFTER APPLICATION - 55 g/ha Rate (WA ONLY)

0	8	22	34
canola varieties with Clearfield technology, wheat varieties with Clearfield technology	Chickpeas, faba beans, field peas	Lucerne, lupins, pasture legumes, vetch, oats, triticale, barley, wheat	all other crops including all other canola

If expected rainfall is not received following use of Titan Imazapic 525 + Imazapyr 175 WG Herbicide, consult your local BASF representative before planting wheat, barley or triticale. (In calculating rainfall actually received, exclude single isolated falls which do not result in periods of continuous soil moisture to allow microbial breakdown to occur in the root zone.