DANGEROUS POISON KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

TITAN

FLUMIOXAZIN 500 S7 HERBICIDE

ACTIVE CONSTITUENT: 500g/kg FLUMIOXAZIN

For knockdown and residual control of broadleaf weeds and grasses in a range of broadacre crops and in non-crop situations as specified in the Directions For Use table. APVMA Approval No.: 95126/145913

Pack Size: 500g-10kg



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GROUP

HERBICIDE

DIRECTIONS FOR USE

Restraints (apply to all use patterns):

DO NOT apply by aircraft.

DO NOT apply by a vertical sprayer.

DO NOT apply by misting machines.

DO NOT treat weeds under poor growing or dormant conditions (such as occur in drought, waterlogging, disease, insect damage or following frosts) as reduced control may result. Weeds should be actively growing at time of treatment.

DO NOT apply in high pH water (pH >7).

DO NOT allow the spray mix to stand overnight.

DO NOT irrigate up to the point of run-off for at least 3 days after application.

SPRAY DRIFT RESTRAINTS

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

Spray shields should always be used when using handheld spray equipment.

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 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 COARSE spray droplet size category.
- Mandatory buffer zones between the application site and downwind sensitive areas are observed.

MANDATORY BUFFER ZONES			
Use situation	nwind buffer zones		
	Natural aquatic areas	Vegetation areas	
Up to 45g/ha prior to sowing (pre-plant burndown)	5 metres	0 metres	
210-280g/ha pre-sowing or post-sowing pre-emergent (knockdown and residual weed control in summer crops)	5 metres	50 metres	
280g/ha use in Lucerne	5 metres	50 metres	
350-560g/ha Sugarcane (knockdown and long term residual weed control)	5 metres	120 metres	
560-700g/ha irrigation channel banks and drainage ditches	0 metres	120 metres	
700g/ha fencelines, non-crop boundary areas	0 metres	0 metres	

RESTRAINTS (additional)

Table B. TITAN Flumioxazin 500 S7 Herbicide applied for control and suppression of weeds in established Lucerne.

D0 NOT apply to Lucerne with more than 15cm of growth as application may result in unacceptable crop injury.

DO NOT apply to Lucerne with any adjuvant or tank mix with any products formulated as an emulsifiable concentrate (EC).

DO NOT use on mixed Lucerne-grass or other Lucerne-pasture stands.

DO NOT use TITAN Flumioxazin 500 S7 Herbicide when oversowing Lucerne stands.

DO NOT use on crops intended for human consumption. Use only on Lucerne intended for grazing, hay or lucerne seed production.

Table E. TITAN Flumioxazin 500 S7 Herbicide applied pre-sowing or post-sowing pre-emergent to provide enhanced knockdown and residual weed control in summer crops.

DO NOT disturb treated soil surface after application as this may remove TITAN Flumioxazin 500 S7 Herbicide.

DO NOT use flood irrigation as a means of incorporation on planting mounds/beds.

Table G. TITAN Flumioxazin 500 S7 Herbicide applied for enhanced knockdown and residual weed control in irrigation channel banks and drainage ditches.

DO NOT apply if heavy rains or storms that are likely to cause run-off are forecast within 3 days.

D0 NOT disturb treated soil surface after application as this may remove TITAN Flumioxazin 500 S7 Herbicide.

DO NOT make more than one application per year.

Table H. TITAN Flumioxazin 500 S7 Herbicide applied for enhanced knockdown and residual weed control in Sugarcane.

DO NOT apply in areas where slope exceeds 4%.

DO NOT apply for enhanced knockdown if weeds are stressed from drought, frost or waterlogging.

D0 N0T apply for residual weed control until the start of summer rains when significant soil wetting rain has occurred (>15mm) or the soil has been irrigated.

DO NOT apply if heavy rains or storms that are likely to cause run-off are forecast within 3 days.

DO NOT disturb treated soil surface after application.

DO NOT make more than one application per year.

DO NOT plant crops other than Sugarcane for 12 months after application.



mixture.				
CROP/SITUATION	WEEDS CONTROLLED	RATE	CRITICAL CO	MMENTS
PRIOR TO SOWING	Follow the Directions For Use of	20 m/ha mina tha	Observe the w	estudiate rates mining and sensual instructions on the
Barley, Chickpeas, Cotton, Faba	Follow the Directions For Use of the glyphosate or paraquat/diquat	30g/ha plus the label rate of tank		estraints, rates, mixing and general instructions on the
Beans, Field	knockdown herbicides and the			re obtained when applied to young weeds between the 2 and
Peas, Lentils,	addition of TITAN Flumioxazin 500	adjuvant#	6-leaf stage.	i e oblamed when applied to young weeds between the 2 and
Lupins, Maize,	S7 Herbicide will increase the speed		-	TAN Flumioxazin 500 S7 Herbicide to knockdown products
Mungbeans, Oats,	of brownout and may improve final			the speed at which treated weeds develop visible symptoms
Peanuts, Pigeon Peas, Sorghum,	control of the following weeds: Annual Polymeria, Bellvine, Black Bindweed,		of phytotoxicit	ty (compared to the results achieved with tank mix partner
Soybeans,	Black Pigweed, Bladder Ketmia,			e) and may improve the final control of certain broadleaved
Sunflowers and	Caltrop, Capeweed, Cow Vine, Dead		weeds.	
Wheat	Nettle, Doublegee, <i>Erodium</i> spp.,			ake of TITAN Flumioxazin 500 S7 Herbicide, do NOT sow
	False Castor Oil, Liverseed Grass, Marshmallow, <i>Medicago</i> spp., Noogoora			east 1 hour after application. Always refer to the tank mix ct label in case a longer sowing interval is required.
	Burr, Paterson's Curse, Red Pigweed,			y with Hasten Spray Adjuvant or TITAN Duelling Spray
	Redroot Amaranth, Seedling Lucerne,			0.5-1L/100L (use the lower rate on smaller, actively growing
	Shepherd's Purse, Sowthistle, Spurred			ptake Spraying Oil at 500mL/100L.
	Vetch, Sunflower, Subterranean Clover*, Tarvine, Turnip Weed, Volunteer Canola,			
	Wild Radish, Wireweed			
	If one of the above weeds is the			
	dominant weed and there is no specific			
	rate for it on the glyphosate product			
	label, consult the label's generic annual-			
	weed rate range. Select from within			
	this range to suit the weed stage, weed density, conditions etc of your situation.			
	* Suppression only			
Note: The addition of		l vohosate paraquat/d	iquat will not he	elp to control large weeds or weeds that have hardened up
				ion of TITAN Flumioxazin 500 S7 Herbicide. See application
	endations to get the best results.	-	-	
IMPORTANT – Refe	r to CROP ROTATION RECOMMENDATION	S prior to use		
	nioxazin 500 S7 Herbicide applied for co		1	n established Lucerne.
CROP/SITUATION	WEEDS CONTROLLED	WEED STAGE	RATE	CRITICAL COMMENTS
Established	For the control of: Annual Ryegrass,	Pre-emergence	280g/ha	DO NOT use on mixed Lucerne-grass or other Lucerne-
Lucerne that is at least 12 months	Carrot Weed, Common Sowthistle, Dead Nettle, Flaxleaf Fleabane, Shepherd's			pasture stands. Only use on pure Lucerne stands.
old (since planting)	Purse, Silver Grass, Winter Grass			D0 N0T use on crops intended for human consumption. Use only on Lucerne intended for grazing, hay or Lucerne
(1 0)	For the suppression of: Awnless			seed production.
	Barnyard Grass, Capeweed, Clammy			DO NOT use TITAN Flumioxazin 500 S7 Herbicide when
	Goosefoot, Fat Hen, Feathertop Rhodes			over-sowing Lucerne stands.
	Grass, Heliotrope, Small Flowered			DO NOT apply with any adjuvant or tank mix with any
	Mallow, Stinging Nettle, Subterranean			products formulated as an emulsifiable concentrate (EC).
				TIMING: USE AFTER HEAVY GRAZING, CUTTING OR
				FOLLOWING KNOCKDOWN WITH PARAQUAT OR PARAQUAT
				+ DIQUAT HERBICIDE TO REDUCE GROUND SHADING IN AUTUMN OR LATE WINTER/SPRING AND CONTROL
				EMERGED WEEDS.
				DO NOT apply to Lucerne with more than 15cm of growth
				as application will result in burning of treated leaves and
				stems and may result in unacceptable crop damage.
				DO NOT apply for residual weed control until the start of
				the main rain season when significant soil wetting rain has
				occurred and more rain (at least 15mm) is likely within 3 weeks, or the soil can be irrigated with sprinklers.
				Dry weather following application may reduce
				effectiveness. The period of residual weed control will
				depend on soil type, rainfall and weed species/density.
				Lighter soil types (sand) may experience shorter periods of
				residual weed control.



	r to CROP ROTATION RECOMMENDATIO nioxazin 500 S7 Herbicide applied as a	•	ol of volunteer	Cotton (NSW and QLD only).
CROP/SITUATION	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE	CRITICAL COMMENTS
PRIOR TO SOWING				
Cotton, Maize, Mungbeans,	Volunteer Cotton including volunteer Roundup Ready Cotton	Up to 4 leaf	45g/ha plus an adjuvant [#]	DO NOT apply post-sowing pre-emergent. DO NOT sow crops for at least 1 hour after application.
Sorghum, Soybeans and Sunflowers				TITAN Flumioxazin 500 S7 Herbicide can be tank mixed with glyphosate to control other weeds that are present. Refer to the glyphosate label for the appropriate label rate according to the weeds present.
				Heavy, intense rainfall following application and sowing may cause some crop damage. If other residual herbicides are also applied prior to, or after planting, or the seed bed is not well drained this can make the damage worse.
				[#] Always apply with Hasten Spray Adjuvant or TITAN Duelling Spray Adjuvant at 0.5-1L/100L (use the lower rate on smaller, actively growing weeds) or Uptake Spraying Oil at 500mL/100L.
Cotton Pre- or Post-				Apply not later than 1 hour prior to sowing or post-sowing up to 2 days before first crop emergence.
sowing, pre-emergence				TITAN Flumioxazin 500 S7 Herbicide can be tank mixed with glyphosate to control other weeds that are present. Refer to the glyphosate label for the appropriate label rate according to the weeds present.
				Heavy, intense rainfall following application and sowing may cause some crop damage. If other residual herbicides are also applied prior to, or after planting, or the seed bed is not well drained this can make the damage worse.
				[#] Always apply with Hasten Spray Adjuvant or TITAN Duelling Spray Adjuvant at 0.5-1L/100L (use the lower rate on smaller, actively growing weeds) or Uptake Spraying 0il at 500mL/100L.
IMPORTANT – Refe	r to CROP ROTATION RECOMMENDATIO	NS prior to use		
Table D. TITAN Flur	nioxazin 500 S7 Herbicide applied as a	lay-by application f	or weed contro	l in Cotton.
CROP/SITUATION	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE	CRITICAL COMMENTS
Cotton	Caltrop	<10cm diameter	60g/ha plus	Apply as a shielded spray underneath Cotton foliage and to
Lay-by application	Noogoora Burr	<4 leaf	an adjuvant#	inter rows at 60-90g/ha to control late germinating weeds,
	Yellowvine	<10cm diameter		or weeds that have escaped previous herbicide operations.
	Annual Polymeria	<6 leaf	90g/ha plus	Best results are obtained when applied to young weeds between the 2 and 6-leaf stage.
	Bellvine	<12 leaf	an adjuvant#	Vines that have commenced climbing may not be
	Black Pigweed	<12 leaf		controlled.
	Bladder Ketmia	<6 leaf		CAUTION: TITAN Flumioxazin 500 S7 Herbicide will
	Cow/Peach Vine	<12 leaf		defoliate any Cotton foliage that is contacted by the spray.
	Dwarf Amaranth	<4 branch		Shielded sprayers must be carefully operated to ensure that
	Red Pigweed	<15cm diameter		spray does not make contact with Cotton foliage. D0 NOT apply in conditions conducive to drift.
	Sow Thistle	<4 leaf		DO NOT apply in conductors conductive to drift. DO NOT apply until Cotton plants are at least 40cm tall.
	Spiked Malvastrum <10cm diam	<10cm diameter		DO NOT allow contact with leaves or green bark on stems
				or trunks.
				# Always apply with Hasten Spray Adjuvant or TITAN Duelling Spray Adjuvant at 0.5-1L/100L (use the lower rate on smaller, actively growing weeds) or Uptake Spraying 0il at 500mL/100L.



MPORTANT – Refer to CROP ROTATION RECOMMENDATIONS prior to use				
	Table E. TITAN Flumioxazin 500 S7 Herbicide applied pre-sowing or post-sowing pre-emergent to provide enhanced knockdown and residual weed			
	summer crops.	DATE		
CROP/ SITUATION	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS	
PRE- or POST- SOWING pre-emergence Peanuts, Soybean Enhanced knockdown of	SOWING pre-emergence Peanuts, Soybean Enhanced knockdown of	Pre-sowing 210-280g/ha Post-sowing pre-emergent 210g/ha	TITAN Flumioxazin 500 S7 Herbicide needs at least 15mm of overhead irrigation or rain to incorporate/activate and therefore should preferably be applied during the main rainfall period when at least 15mm of rain or irrigation is expected within 3 weeks. This 15mm is also necessary after application and before planting Pigeon Pea, Maize, Sorghum, Navy Bean, Cotton, Sunflowers or Mungbeans to improve crop safety.	
vines and broadleaf weeds and residual control of vines, broadleaf and	Bethlehem), Milk/Sow Thistle, Milkweed, <i>Phyllanthus</i> spp., Red Pigweed, Sicklepod, Summer Grass, Square Weed, Wild Rose		If existing weeds are present at >2 leaf stage then non-selective knockdown herbicides such as paraquat and glyphosate should be used at sufficient rates to control these in mixtures with TITAN Flumioxazin 500 S7 Herbicide.	
grasses Post-fallow PRE-SOWING Burndown with residual weed		210-280g/ha	Heavy rainfall (>25mm) and prolonged wet weather during emergence may cause crop injury particularly where there has been insufficient previous rainfall to incorporate TITAN Flumioxazin 500 S7 Herbicide and the sub-soil has been saturated by flood irrigation. For post-sowing applications this will be worse if application is delayed until seedlings are	
control Maize, Sorghum,			starting to crack through the soil. Application to Peanuts or Soybeans should be made either prior to planting, or within 2 days of planting.	
Navy Bean At least 1 month prior to sowing Cotton, Sunflower, Mungbeans At least 2 months prior to sowing			If a field crop is under stress from poor nutrition, lack of moisture, waterlogging, insect or disease pressure, this weakens the crop and it is less able to metabolise flumioxazin. This makes it more susceptible to damage during germination and in early growth, so short term symptoms of phytotoxicity may occur particularly with heavy rainfall. This can also occur when mixing with another herbicide. If this is expected to be a concern, use a lower rate of TITAN Flumioxazin 500 S7 Herbicide (maximum of 210g/ha). D0 NOT use more than 210g/ha in mixtures with any other herbicides.	
			For Maize, Sorghum, Navy Bean, Cotton, Sunflowers and Mungbeans follow the recommended pre-plant interval and ensure at least 15mm of rain has fallen or overhead irrigation has been applied prior to planting.	
			For winter crops follow the plantback intervals listed below (under "Crop rotation recommendations").	
			Planting any crop seed at a shallower depth than normal with poor soil coverage of the seed can also contribute to crop injury.	
			A minimum of 80L/ha of spray mixture is recommended. Use more water with heavy stubble or trash.	
			Efficacy may be reduced by: soil movement, shadowing caused by trash, heavy stubble or large clods, thick trash, long dry conditions after rain or irrigation, high pressure from large seeded weeds that can germinate from moisture at depth through dry surface soil.	
			In these conditions, reliability may be improved by the addition of a suitable herbicide for that crop, with stronger grass activity and more solubility. Note that heavy rain soon after sowing can also result in additional phytotoxicity from these other herbicides and so this should be tested before applying to large areas.	
			Weed escapes may require follow-up application of knockdown herbicides.	
			For improved burnout, apply with Hasten Spray Adjuvant or TITAN Duelling Spray Adjuvant at 0.5-1L/100L (use the lower rate on smaller, actively growing weeds) or Uptake Spraying Oil at 500mL/100L.	



SELECTED NON-CR	OP USES			
Table F. TITAN Flum	ioxazin 500 S7 Herbicide applied for res	idual weed control	of fencelines	and non-crop boundary areas.
USE SITUATION	WEEDS CONTROLLED	WEED STAGE	RATE	CRITICAL COMMENTS
Fencelines Non-crop boundary areas [#] For the control of: Annual Ryegrass, Awnless Barnyard Grass, Caltrop, Capeweed, Clammy Goosefoot, Carrot Weed, Common Sowthistle, Dead Nettle, Erodium, Fat Hen, Feathertop Rhodes Grass, Flaxleaf Fleabane, Heliotrope, Lesser Loosestrife, Prickly Lettuce, Shepherd's Purse, Silver Grass, Toad Rush, Turnip Weed, Winter Grass	or the control of: Annual Ryegrass,	Pre-emergence	700g/ha	The period of residual weed control will depend on soil type, rainfall and weed species/density.
			Lighter soil types (sand) may experience shorter periods of residual weed control.	
			D0 NOT apply for residual weed control until the start of the main rain season when significant soil wetting rain has occurred and more rain (at least 15mm) is likely within 3 weeks. Dry weather following application may reduce effectiveness.	
	For the suppression of: Small Flowered Mallow, Stinging Nettle			Control emerged weeds with a knockdown herbicide before applying TITAN Flumioxazin 500 S7 Herbicide.
				To maximise residual weed control, apply to fencelines or non-crop boundary areas where weed and trash levels are low to maximise herbicide contact with the soil surface.
				Use of TITAN Flumioxazin 500 S7 Herbicide, or other residual herbicides, along fencelines or non-crop boundary areas may lead to soil erosion in sandy soils.
				D0 N0T apply in areas prone to strong winds or to powdery soils or soils susceptible to wind displacement.
				D0 N0T operate machinery such as mowers and sprayers that may blow treated dust onto crops or native vegetation.
				DO NOT apply to farm roads or tracks where vehicle traffic may result in dust settling onto crops or native vegetation.
				DO NOT disturb treated soil surface after application.
			* Non-crop boundary areas are those around crops that are not currently in crop and will not be sown or planted in the future. Typically, these areas should be no wider than 2 metres.	
				DO NOT use in industrial, commercial areas or rights-of- way.
	nioxazin 500 S7 Herbicide applied for en	hanced knockdowi	n and residual	weed control in irrigation channel banks and drainage
ditches.				
USE SITUATION	WEEDS CONTROLLED	RATE	CRITICAL CO	
Irrigation channel banks and drainage ditches	<i>Amaranthus</i> spp., Balsam Pear, Barnyard Grass, Bladder Ketmia, Bluetop/Billygoat Weed, Calopo, Caltrop/Yellow Vine, Crowsfoot Grass, Feathertop Rhodes Grass, Fleabane, Green Summer Grass, <i>Ipomoea</i> spp. (Bell Vine, Morning Glory, Pink Convolvulus, Star of Bethlehem), Milk/Sow Thistle, Milkweed, <i>Phyllanthus</i> spp., Red Pigweed, Sicklepod, Summer Grass, Square Weed, Wild Rose	560-700g/ha	TITAN Flumioxazin 500 S7 Herbicide needs at least 15mm of rain to incorporate/activate and therefore should be applied during the main rainfall period when 15mm of rain is expected within 3 weeks. Channels must be completely empty at the time of application. If the required rain has not fallen and it is necessary to use the irrigation channel, fill it with water and allow it to stand for 24 hours then drain off the water in the channel and run to waste. If existing weeds are present at >2 leaf stage, then non-selective knockdown herbicides such as paraquat or glyphosate should be used to control these in mixtures with TITAN Flumioxazin 500 S Herbicide. For improved burnout, apply with Hasten Spray Adjuvant or TITAN Duelling Spray Adjuvant at 0.5-1L/100L (use the lower rate on smaller, actively	
			1	ds) or Uptake Spraying Oil at 500mL/100L.
also atrazi	ne.		1	th non-selective herbicides, eg. paraquat, glufosinate and
CROP/SITUATION	WEEDS CONTROLLED	RATE	CRITICAL CO	
Sugarcane Plant – after filling	t – after filling Ratoons nhance Including: Calopo, Wild Rose, Square Weed/Borreria, Billygoat Weed/Bluetop, Pig Weed, Sicklepod, Common Sida,	90-120g/ha plus the label rate of	of the cane p	
in or Ratoons To enhance		tank mix partner plus an adjuvant	such as Hast	rfactants may be used but addition of a crop oil concentrate en may give a better result.
knockdown of vines and broadleaf Spp. (including Pink Convolvulus, Red Convolvulus, Bell Vine, Morning Glory, Star of Bethlehem)		improve know to be sprayed		
		glyphosate or	ixazin 500 S7 Herbicide also enhances the knockdown of n broadleaved weeds and vines, but great care must be taken glyphosate to drift on to cane.	



Table H: TITAN Flumioxazin 500 S7 Herbicide applied to enhance knockdown in mixtures with non-selective herbicides, eg. paraquat, glufosinate and also atrazine – continued.					
CROP/SITUATION	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS		
TITAN Flumioxazin	TITAN Flumioxazin 500 S7 Herbicide applied to provide enhanced knockdown and long term residual weed control				
Sugarcane Plant – after filling in or Ratoon - no trash blanket Bare soil situations in higher rainfall areas such as wet tropics or with supplementary irrigation Enhanced knockdown of vines and broadleaf and residual control of vines, broadleaf and grasses Sugarcane Ratoon with trash blanket or Plant and Ratoon with bare soil with low rainfall and flood irrigation eg. Burdekin area Enhanced knockdown of vines and broadleaf and residual control of vines, broadleaf and grasses	Broadleaf and vines <9 leaf stage. Including: Calopo, Fleabane, Blackberry Nightshade, Wild Rose, Square Weed/ Borreria, Billygoat Weed/Bluetop, Balsam Pear, Pigweed, Giant Pigweed, Milkweed, Sicklepod, Common Sida, Spider Flower Amaranthus, <i>Ipomoea</i> spp. (including Pink Convolvulus, Red Convolvulus, Morning Glory, Star of Bethlehem) Grasses: Summer Grass, Green Summer Grass, Feathertop Rhodes Grass, Barnyard Grass, Crowsfoot Grass	350-560g/ha 560-700g/ha	Apply TITAN Flumioxazin 500 S7 Herbicide as a directed spray to the base of the cane plants. If existing weeds are present at the 2-8 leaf stage then non-selective herbicides eg. paraquat should be added to ensure adequate knockdown. If grasses greater than 3 leaf are present the addition of a low rate of diuron to paraquat will improve knockdown. If Calopo or Sicklepod are present then the addition of atrazine may improve knockdown. Non-ionic surfactants may be used but addition of a crop oil concentrate such as Hasten will generally give a better knockdown result. TITAN Flumioxazin 500 S7 Herbicide also enhances the knockdown of glyphosate on broadleaved weeds and vines and then provides on going residual control, but great care must be taken not to allow glyphosate to drift on to cane. A minimum of 200L/ha of spray mixture is recommended. TITAN Flumioxazin 500 S7 Herbicide should be applied to moist soil and needs follow up rain or irrigation of at least 15mm within 3 weeks to ensure continued good control particularly on trash. Efficacy may be reduced by soil movement, very thick trash, flood irrigation or flood water moving top soil or trash, long dry conditions after rain or irrigation. In these situations, reliability may be improved by adding a lower rate of TITAN Flumioxazin 500 S7 Herbicide to other more water soluble herbicides that move further down in the soil profile such as S-metolachlor, metolachlor or atrazine.		

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

WITHHOLDING PERIODS

HARVEST:

Cereal Grains (Wheat, Barley, Oats, Maize and Sorghum), Pulses (Lupins, Chickpeas, Faba Beans, Field Peas, Lentils, Pigeon Peas, Navy Beans and Mungbeans), Oilseeds (Soybeans, Sunflowers and Peanuts), Cotton and Lucerne: NOT REQUIRED WHEN USED AS DIRECTED. Sugarcane: DO NOT HARVEST FOR 22 WEEKS AFTER APPLICATION.

GRAZING:

Barley, Chickpeas, Faba Beans, Field Peas, Lentils, Lupins, Oats, Wheat: DO NOT ALLOW LIVESTOCK TO GRAZE VEGETATION PRESENT AT TIME OF TREATMENT FOR 2 WEEKS AFTER APPLICATION.

DO NOT GRAZE OR CUT CROPS PLANTED FOLLOWING TREATMENT FOR STOCK FOOD FOR 6 WEEKS AFTER APPLICATION.

Cotton: DO NOT ALLOW LIVESTOCK TO GRAZE TREATED COTTON CROP, STUBBLE OR GIN TRASH.

Drainage Ditches and Irrigation Channel Banks: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 22 WEEKS AFTER APPLICATION.

Fencelines and Non-Crop Boundaries: DO NOT ALLOW LIVESTOCK TO GRAZE VEGETATION PRESENT AT TIME OF TREATMENT FOR 2 WEEKS AFTER APPLICATION.

Lucerne: DO NOT GRAZE OR CUT CROPS FOR STOCKFOOD FOR 4 WEEKS AFTER APPLICATION.

Maize, Peanuts, Sorghum and Sunflower: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 8 WEEKS AFTER APPLICATION.

Mungbeans, Navy Beans, Pigeon Pea and Soybeans: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 6 WEEKS AFTER APPLICATION.

Sugarcane: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 22 WEEKS AFTER APPLICATION.



GENERAL INSTRUCTIONS

MIXING

TITAN Flumioxazin 500 S7 Herbicide is a water dispersible granule formulation. To ensure even mixing, half-fill the spray tank with clean water. Keep the agitation system engaged. Mix thoroughly until fully dissolved. Add the knockdown herbicide and remaining water. Mix thoroughly. Add spray additive near the end of the filling process to minimise foaming. Always maintain adequate agitation during application and use the tank mix promptly.

APPLICATION

For application rates up to 90g/ha apply in a minimum of 80L spray solution per hectare.

For application rates above 280g/ha apply in a minimum of 200L spray solution per hectare.

If pH of spraying water is above 7.0, acidify with appropriate buffering agent prior to adding TITAN Flumioxazin 500 S7 Herbicide.

1. CEREALS, PULSES, OILSEEDS, LUCERNE AND COTTON

Refer to the Directions For Use and General Instructions of the knockdown herbicide label. As TITAN Flumioxazin 500 S7 Herbicide is a contact herbicide, coverage is important.

Performance of TITAN Flumioxazin 500 S7 Herbicide as a knockdown or with a partner on weeds or on volunteer Cotton may be reduced with large droplets and poor coverage.

Air induction nozzles that deliver coarse droplets at high travelling speeds, low pressure and low water rates may reduce coverage and herbicide performance.

Air induction nozzles can produce variable results when used with oil. DO NOT use air induction nozzles with a spray oil such as Hasten or TITAN Duelling Spray Adjuvant.

Best results with TITAN Flumioxazin 500 S7 Herbicide are achieved with coarse droplets produced by wide angle flat fan or twin jet nozzles. If the partner herbicide requires coarse droplets, then ensure high water volumes >80L/ha are used.

2. SUGARCANE

TITAN Flumioxazin 500 S7 Herbicide applied to enhance knockdown in mixtures with non-selective herbicides, eg. paraquat, glufosinate and also atrazine and applied to provide enhanced knockdown and long term residual weed control. Apply in a minimum of 250L spray solution per hectare. Refer to the Directions For Use and General Instructions of the knockdown herbicide label.

3. SELECTED NON-CROP USES

Refer to the Directions For Use and General Instructions of the knockdown herbicide label. As TITAN Flumioxazin 500 S7 Herbicide is a contact herbicide, coverage is important.

Performance of TITAN Flumioxazin 500 S7 Herbicide as a knockdown or with a partner on weeds or on volunteer Cotton may be reduced with large droplets and poor coverage.

Air induction nozzles that deliver coarse droplets at high travelling speeds, low pressure and low water rates may reduce coverage and herbicide performance.

Air induction nozzles can produce variable results when used with oil. DO NOT use air induction nozzles with a spray oil such as Hasten or TITAN Duelling Spray Adjuvant.

Best results with TITAN Flumioxazin 500 S7 Herbicide are achieved with coarse droplets produced by wide angle flat fan or twin jet nozzles. If the partner herbicide requires coarse droplets, then ensure high water volumes >200L/ha are used.

CROP TOLERANCE

All crops

Crop safety may be compromised where compounding crop factors such as insect pressure, water logging and nutrient deficiency may occur.

Lucerne

Warning – Use only in established Lucerne that is at least 12 months old since planting. TITAN Flumioxazin 500 S7 Herbicide should only be applied to established Lucerne crops which have been heavily grazed, recently cut or desiccated following knockdown with paraquat or paraquat + diquat. The tolerance of Lucerne varieties to TITAN Flumioxazin 500 S7 Herbicide can vary with soil type, crop health, stage of growth and degree of moisture and temperature stress. TITAN Flumioxazin 500 S7 Herbicide may result in transient crop yellowing and suppression of growth with a resultant initial reduction in biomass. For this reason we recommend application to established, dormant Lucerne during autumn or winter before Lucerne shoot growth has started or between cuttings prior to 15cm of regrowth. However, under normal growing conditions, subsequent growth and seed yield should not be affected.

Crop damage may be increased if rates higher than 280g/ha are used and in areas where spray overlapping has occurred. Consult your local TITAN AG representative for advice on specific varieties.

CROP ROTATION RECOMMENDATIONS

The minimum plantback or preplant interval for Canola after application of TITAN Flumioxazin 500 S7 Herbicide at 30g/ha is 5 months. The following plantback or re-cropping intervals apply to crops that may be grown during the winter period on rotation with the summer crops, where

210-280g of TITAN Flumioxazin 500 S7 Herbicide has been applied.

Сгор	Minimum plantback or re-cropping interval
Wheat	2 months
Durum Wheat	3 months
Barley	3 months
Triticale	3 months
Oats	3 months
Lupins	3 months
Faba Beans	none required
Field Peas	1 month
Lentils	4 months
Chickpeas	1 month
Canola	9 months
Lucerne	6 months
For advice on crops not	listed contact TITAN AG Pty Ltd.

EQUIPMENT MAINTENANCE AND USAGE

A 50 mesh primary filter and 80 mesh secondary filter(s) are recommended. The use of in-line nozzle filters is not recommended.

SPRAYER CLEANUP

When cleaning spraying equipment, wear cotton overalls buttoned to the neck and wrist and elbow-length chemical resistant gloves.

After TITAN Flumioxazin 500 S7 Herbicide is applied, the following steps must be taken to clean the spray equipment.

- 1. Completely drain the spray tank, rinse the sprayer thoroughly, including the inside and outside of the tank and all in-line screens.
- 2. Fill the spray tank with clean water and flush all hoses, booms, screens and nozzles.
- 3. Add 1 litre of 3% household ammonia or similar alkaline based tank cleaner for every 100 litres of water, circulate through sprayer for 5 minutes, then flush all hoses, booms, screens and nozzles for a minimum of 15 minutes.
- 4. Drain tank completely.
- 5. Add enough clean water to the spray tank to allow all hoses, booms, screens and nozzles to be flushed for 2 minutes.
- 6. Remove all nozzles and screens and rinse them in clean water.

Equipment with TITAN Flumioxazin 500 S7 Herbicide residue remaining in the system may result in crop injury to the subsequently treated crop.

COMPATIBILITY

TITAN Flumioxazin 500 S7 Herbicide is compatible with: TITAN Glyphosate 450 Herbicide, TITAN Glyphosate 540 K Salt Herbicide, TITAN CC & Dry OTT Gly 700 Herbicide, TITAN Titanium 570 Herbicide, TITAN Paraquat 250 Herbicide, TITAN Paraquat 360 Herbicide, TITAN EOS Herbicide, TITAN Diquat 200 Non-Residual Herbicide, TITAN Amine 625 Selective Herbicide, TITAN LV Ester 680 Herbicide and TITAN Amine 475 Herbicide.

RESISTANT WEEDS WARNING

TITAN Flumioxazin 500 S7 Herbicide is a member of the N-phenylphthalimides group of



herbicides. The mode of action of TITAN Flumioxazin 500 S7 Herbicide is to inhibit protoporphyrinogen oxidase. For weed resistance management, TITAN Flumioxazin 500 S7 Herbicide is a Group 14 Herbicide. Some naturally occurring weed biotypes resistant to TITAN Flumioxazin 500 S7 Herbicide and other Group 14 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 Flumioxazin 500 S7 Herbicide or other Group 14 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 Flumioxazin 500 S7 Herbicide to control resistant weeds. Strategies to minimise the risk of herbicide resistance are available. Contact your farm chemical supplier, consultant or local Department of Agriculture.



PRECAUTIONS

Re-Entry Period: DO NOT allow entry onto treated areas until the spray has dried for low exposure activities such as irrigation and scouting, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use

DO NOT allow entry onto treated areas for 6 days for high exposure activities such as harvesting, pruning and training, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

WARNING

THIS PRODUCT CONTAINS FLUMIOXAZIN WHICH CAUSES BIRTH DEFECTS IN CERTAIN LABORATORY ANIMALS. WOMEN OF CHILDBEARING AGE ARE ADVISED NOT TO MIX, LOAD OR SPRAY THIS PRODUCT. THEY SHOULD KEEP OUT OF CROPS BEING SPRAYED.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply TITAN Flumioxazin 500 S7 Herbicide under weather conditions (eg. wind) or from spray equipment that may cause spray to drift onto nearby susceptible crops/plants, cropping lands or pastures. Care should be taken to avoid damage to adjoining native grasses or grass crops. TITAN Flumioxazin 500 S7 Herbicide should not be applied through misting equipment or any other method likely to cause excessive drift.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or watercourses with the product or used containers. DO NOT apply TITAN Flumioxazin 500 S7 Herbicide if wind is likely to cause drift onto natural and impounded lakes, watercourses, streams or rivers

STORAGE AND DISPOSAL

Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Single rinse or shake remainder into spray tank. DO NOT dispose of undiluted chemicals on-site. 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.

SMALL SPILL MANAGEMENT

Sweep up material and contain in a refuse vessel for disposal in the same manner as for containers (see Storage and Disposal).

SAFETY DIRECTIONS

Poisonous if absorbed by skin contact or swallowed. May irritate the skin, nose and throat. Will irritate the eves. Avoid contact with eves and skin. When using together with other products, consult their label safety directions. When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbowlength chemical resistant 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 Flumioxazin 500 S7 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 Ptv 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: May damage fertility or the unborn child. 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. Avoid release to the environment. Wear protective gloves/ protective clothing/eye protection/face protection. IF exposed or concerned: Get medical advice/attention. Collect spillage. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.



