**READ SAFETY DIRECTIONS BEFORE OPENING OR USING** 



For control of bracken fern in pastures, grasses in sugarcane, and a range of weeds and grasses in crops and pastures as specified in the Directions for Use table. APVMA Approval No.: 62510/0208 Pack Size: 5L, 10L, 20L



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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: D0 N0T apply by aircraft (except for sugar cane). D0 N0T apply if rain is expected within 3 hours (24 hours for bracken).

All in 220 to 440L water/ ha Knapsack or Hand Lance 1 part to 200 parts water     SA, WA only ha Knapsack or Hand Lance 1 part to 200 parts water     Benefits (SA, WA only ha Knapsack or Hand Lance 1 part to 200 parts water Dock, Fiddle Dock, Curted Dock, Fiddle Dock     Benefits (SA, WA only ha Knapsack or Hand Lance 2 to 4 2 to 1 2 to 20 to 440L     WC, TAS only HC, T	CROP	WEEDS CONTROLLED	RATE	STATE	CRITICAL COMMENTS
Hops     Droadlead Dock, Curled     Jos Colin 220 to 440L, water/ha     WC, TAS only water/ha     Advances and the part of	Apple Orchards	Docks	4.2L in 220 to 440L water/ ha Knapsack or Hand Lance		
Dock, Fiddle Dock     water/ha     whore Fiddle Dock is present or where docks are mainly old, estibilished plants.       Lucerne – established     Docks     Boom Sprayer     ALL STATES     Lucerne should be at least one year old. Apply when Docks an established plants.     Book Apply when Docks and present.     Apply higher rate if the docks are present.     DO NDT apply in spring if pasture is intended for seed product to not spray the rate if the docks and present.     DO NDT apply in spring if pasture is intended for seed product to not spray to nor -undf.     DO NDT apply is an overall spray as crop damage may result.       Onlions     Docks     Knappsack or Hand Lance 1 part to 200 parts water     TAS only     Apply when Docks are actively growing and have fully expanding on the set fully expanding on the					
established 2.8 to 4.2 Lin 220 to 440L actively growing and have fully expanded lawse, just before flowering shots senge. Apply lower rate I of their Cluele Dock and Breadella Dock are present. Apply higher rate I of their docks an present.   Onionis Docks Knapsack or Hand Lance I hard to apply in spring IT pastive is intended for seed product Dock are present. Apply higher rate I of their docks an coverage of docks but do not spring to na-off.   Oliseed poppies Broadleat Dock, Curied 2.5 Lin 220 to 440L water/   Dack Endest Dock, Curied 2.5 Lin 220 to 440L water/   ha Dock Songer Spring with the fully expanded laws fully expanded laws fully expanded laws fully expanded laws fully expanded laws, just before flowering shots emerge. Transpring for curit of states fully reprind in curve states and the set of the states. The state and form and the states are curver quick if y growing and have fully expanded laws fully expanded laws. State Expert Provide and Provide Prov	Hops			VIC, TAS only	
Onions     Docks     Rnapsack or Hand Lance 1 part to 200 parts water     TAS only to 200 parts water     Apply when docks are actively growing and have fully expanding coverage of docks but do not spray to run-off. DO NOT apply as an overall spray as crop damage may result. Sprayed onions may show a slight yellowing but they will nom recover quickly if good growing conditions exist.       Oilseed poppies     Broadleaf Dock, Curied     2.5L in 220 to 440L water/ ha     TAS only     Apply when docks are actively growing conditions exist.       Oilseed poppies     Broadleaf Dock, Curied     2.5L in 220 to 440L water/ ha     TAS only     Carps stage: Spray any time after the 4 to 6 leaf stage. Weed stage: Apply when bocks are actively growing and have they conside lawes, just before flowering shoots emerge. Training they apply and lawes is the stage.       Pastures     Common Bracken     Boom Sprayer 12.0L plus BP Ulvapron* (2% of spray volume) in 10 to 30.0L water/ha Motorised Mister 12.0L plus BP Ulvapron* (2% of spray volume) in 9.8L water     ALL STATES     Temporary scort is likely within 24 hours. (2% of spray volume) in 9.8L water       Common Bracken     Carpet Wiper 5.0L plus BP Ulvapron* (2% of spray volume) in 9.8L water     WC only 5.0L plus BP Ulvapron* (2% of spray volume) in 9.8L water     For East Gippsland district only. 5.0L plus BP Ulvapron* (2% of spray volume) in 9.8L water       Broadleaf Dock, Curied     Boem Sprayer 12.0L plus BP Ulvapron* (2% of spray volume) in 9.8L water     MC only 5.0L plus BP Ulvapron* (2% of spray volume) in 9.8L water <		Docks	2.8 to 4.2L in 220 to 440L	ALL STATES	flowering shoots emerge. Apply lower rate if Curled Dock and Broadleaf Dock are present. Apply higher rate if other docks are present.
Broadleaf Dock, Curled Dock     Scale     Scale     D0 N0T apply as an overall spray as crop damage may result. Sprayed onions may show a slight yellowing but they will norm recover quickly if good growing conditions exist.       Oilseed poppies     Broadleaf Dock, Curled Dock     2.5L in 220 to 440L water/ ha     TAS only ha     Crop stage: Spray any time after the 4 to 6 leaf stage. Weed stage: Apply when Docks are actively growing and have fully expanded leaves, just before flowering shows emerge. T range of control is extended with a spray program in combinat with effoldumestae as recommended by poppy contracting companies or the Department of Primary Industries. Tasmania with effoldumestae as recommended by poppy contracting companies or the Department of Primary Industries. Tasmania with effoldumestae as recommended by poppy contracting companies or the Department of Primary Industries. Tasmania with effoldumestae as recommended by poppy contracting companies or the Department of Primary Industries. Tasmania with effoldumestae as recommended by poppy contracting recource withing cover and active spray on the spraying. Ress are first seen as a lack of spring re-growth. Ensure uniform coverage of spray over the spraying. Ress are first seen as a lack of spring re-growth. Ensure uniform coverage of spray over tracks. Weet stage: Confort, Perennial Ryegrass, Red Clover Tail Forcus. White Clover     Common Bracken     Carpet Wiper 5.0. plus BP Ulvapront (2% of spray volume) in 0. 5.8. twater     ViC only 5.0. plus BP Ulvapront (2% of spray volume)     ViC only 5.0. plus BP Ulvapront (2% of spray volume)     For East Gippsland district only. To apply the recommended rate it is necessary to select an approximation of flow etch. The same will control bracken should be sistend of plumps. This ret will control	Onions	Docks		TAS only	Apply when docks are actively growing and have fully expanded leaves, just before flowering shoots emerge. Ensure uniform spray
Dilseed poppies     Broadleaf Dock, Curied Dock     2.5. Lin 220 to 440L water/ ha     TAS only     Crop stage: Spray any time after the 4 to 6 leaf stage. Weed stage: Apyot when Docks are actively growing and have fully expanded leaves, just bettere flowering shoots emerge. The range of control is extended with a spray program in combinal with ethofumesate as recommended by poppy contracting companies or the Deartment of Primary Industries, Tasmania T2.0. plus BP Ukapron* (2% of spray volume) in 110 to 330. water/ha Motorised Mister 12.0. plus BP Ukapron* (2% of spray volume) in 10 to 330. water/ha Motorised Mister 12.0. plus BP Ukapron* (2% of spray volume) in 20. plus BP Ukapron* (2% of spray volume) in 9.8. water     ALL STATES     Temporary scorch is likely to occur in prevnilal pastures. Appl diming late April to early June after the autume regrowth hars magnetic steen as a lack of spring re-growth. Ensure uniform coverage of spray over bracken.       Vice or Verseue, White Cover     Common Bracken     Carpet Wijper 5.0. Jus BP Ulvapron* (2% of spray volume) in 9.8. water     ViC only     For East Glippsland district only. To apply the recommender atte it is necessary to select an appropriate combined rate it is necessary to select an appropriate combined rate it is necessary to select an appropriate control they approving de surger of spray volume)       Broadleaf Dock, Curied Dock     Boom Sprayer 2.8 Lin 220 to 440L water/ ha     ALL STATES     Apply when docks are actively growing and have fully expandid leaves, just before the series into select an appropriate combining of fourma, spray ing to ensure cases, repeat treated fronds are fully mature. Where fronds a of variable height or occur in these infestation of clumps, som plants may not be contacted b					DO NOT apply as an overall spray as crop damage may result. Sprayed onions may show a slight yellowing but they will normally
Dock     ha     Weed stage: Apply when Docks are actively growing and have fully expanded haves, just before flowering shocks emerge. The trading of control is extended with a syray program in combinat with ethofunease as recommended by popy contracting companies or the Department of Primary Industries, Tasmania is informed particles. Apply when Docks are actively growing and have fully expanded haves, just before flowering shocks emerge. The stabilished X informed partners. Apply information of Primary Industries, Tasmania (2% of spray volume) in 110 to 330L water/ha Motorised Mister 12.0L plus BP Ulvapron* (2% of spray volume) in 20 to 80L water/ha Motorised Mister 12.0L plus BP Ulvapron* (2% of spray volume) in 20 to 80L water/ha Knapsack or Hand Lance 100mit plus BP Ulvapron* (2% of spray volume) in 31.0 b 80L water/ha Knapsack or Hand Lance 100mit plus BP Ulvapron* (2% of spray volume) in 5.0L plus	Oilseed poppies	Broadleaf Dock, Curled	2.5L in 220 to 440L water/	TAS only	
established &   12.0.1 plus BP Ulvapron*   during lack April to early June after the autumn regrowth has'r expanded, and before the first forsts of the season. Where old mature fronds exist, the bracken should be slashed or burned during October or November in the year prior to spraying. Rest 20.0, plus BP Ulvapron* 12.0, plus BP Ulvapro* 12.0, plus BP Ulvapro* 12.0, plus BP Ulvapro* 12.0, plus BP Ulva		Dock	ha		<b>Weed stage:</b> Apply when Docks are actively growing and have fully expanded leaves, just before flowering shoots emerge. The range of control is extended with a spray program in combination with ethofumesate as recommended by poppy contracting companies or the Department of Primary Industries, Tasmania.
5.0L plus BP Ulvapron" (2% of spray volume)To apply the recommended rate it is necessary to select an appropriate combination of flow rate, tractor speed and herbic dilution. Refer to General Instructions for details. This rate will control bracken growing at a density of 25 fronds per square metre. The bracken should be slashed during late spring or early summer in the year prior to spraying to ensure regenerated fronds of similar age. The bracken should then be wiped in the following autumn before the first frosts of the sea when the regenerated fronds are fully mature. Where fronds a of variable height or occur in dense infestation of clumps, som plants may not be contacted by the herbicide solution. In these cases, repeat treatment may be necessary.Broadleaf Dock, Curled DockBoom Sprayer 2.8L in 220 to 440L water/ haALL STATESApply when docks are actively growing and have fully expande leaves, just before flowering shoots emerge. Slight yellowing or some pasture species may occur but they will normally recover quickly if good growing conditions exist. Damage to Strawberry Clover and Subterranean Clover is likely. A follow-up spray may be required to control subsequer germinations of seedlings which occur in old established stand mature docks. Pastures should not be grazed for 2 to 3 weeks before sprayin to allow sufficient growth of Docks and to minimise the check pastures.	established & improved pastures of: Chewing's Fescue, Cocksfoot, Perennial Ryegrass, Red Clover, Tall Fescue, White	Common Bracken	12.0L plus BP Ulvapron <sup>#</sup> (2% of spray volume) in 110 to 330L water/ha <b>Motorised Mister</b> 12.0L plus BP Ulvapron <sup>#</sup> (2% of spray volume) in 20 to 80L water/ha <b>Knapsack or Hand Lance</b> 100mL plus BP Ulvapron <sup>#</sup> (2% of spray volume) in	ALL STATES	during October or November in the year prior to spraying. Results are first seen as a lack of spring re-growth. Ensure uniform coverage of spray over bracken. With Knapsack or hand lance, spray to give complete coverage of fronds but do not spray to run-off.
of spray volume)of spray volume)of spray volume)of spray volume)appropriate combination of flow rate, tractor speed and herbic dilution. Refer to General Instructions for details. This rate will control bracken should be slashed during late spring or early summer in the year prior to spraying to ensure regenerated fronds of similar age. The bracken should then be wiped in the following autumn before the first frosts of the sea when the regenerated fronds or similar age. The bracken should then be wiped in the following autumn before the first frosts of the sea when the regenerated fronds are fully mature. Where fronds a of variable height or occur in dense infestation of clumps, som plants may not be contacted by the herbicide solution. In these cases, repeat treatment may be necessary.Broadleaf Dock, Curled DockBoom Sprayer 2.8L in 220 to 440L water/ haALL STATESApply when docks are actively growing and have fully expande leaves, just before flowering shoots emerge. Slight yellowing or some pasture species may occur but they will normally recover quickly if good growing conditions exist. Damage to Strawberry Clover and Subterranean Clover is likely. A follow-up spray may be required to control subsequer germinations of seedlings which occur in old established stant mature docks. Pastures should not be grazed for 2 to 3 weeks before sprayin to allow sufficient growth of Docks and to minimise the check pastures.		Common Bracken		VIC only	For East Gippsland district only.
PersonPerso					appropriate combination of flow rate, tractor speed and herbicide
Dock2.8L in 220 to 440L water/ haleaves, just before flowering shoots emerge. Slight yellowing or some pasture species may occur but they will normally recover quickly if good growing conditions exist.Damage to Strawberry Clover and Subterranean Clover is likely. A follow-up spray may be required to control subsequer germinations of seedlings which occur in old established stand mature docks.Pastures should not be grazed for 2 to 3 weeks before sprayin to allow sufficient growth of Docks and to minimise the check pastures.					spring or early summer in the year prior to spraying to ensure regenerated fronds of similar age. The bracken should then be wiped in the following autumn before the first frosts of the season when the regenerated fronds are fully mature. Where fronds are of variable height or occur in dense infestation of clumps, some plants may not be contacted by the herbicide solution. In these cases, repeat treatment may be necessary.
likely. A follow-up spray may be required to control subsequer germinations of seedlings which occur in old established stand mature docks. Pastures should not be grazed for 2 to 3 weeks before sprayin to allow sufficient growth of Docks and to minimise the check pastures.			2.8L in 220 to 440L water/	ALL STATES	
to allow sufficient growth of Docks and to minimise the check pastures.					likely. A follow-up spray may be required to control subsequent germinations of seedlings which occur in old established stands of mature docks.
DO NOT apply in spring it pasture is intended for seed product					1.
					bo not apply in spring it pasture is intended for seed production.



CROP	WEEDS CONTROLLED	RATE	STATE	CRITICAL COMMENTS
Perennial Ryegrass for seed production	Group A Dock*, False Brome, Rat's Tail Fescue, Shivery Grass, Silvery Hair Grass, Soft Brome, Squirrel Tail Fescue,	ha	NSW, VIC, TAS, SA only	Apply to established crops in the autumn (late April-early June). The crop will show signs of yellowing 5-6 weeks after spraying. A reduction in total herbage production for 3-6 months will be experienced. Annual clovers will be affected.
				DO NOT apply to cultivar Medea Ryegrass as crop yields may be affected.
	Sub Clover			DO NOT apply in spring as crop damage will result.
	<b>Group B</b> Madrid Brome, Prairie Grass, Sorrel,			Group A weeds are susceptible and Group B weeds are moderately susceptible at the recommended rate.
	Sterile Brome, Annual Poa (Winter Grass), Yorkshire Fog			* Apply when Docks are actively growing and have fully expanded leaves, just before flowering shoots emerge.
Potatoes	Docks	Boom Sprayer 2.8L in 220 to 440L water/ ha	VIC, TAS only	Apply when Docks are actively growing and have fully expanded leaves, just before flowering shoots emerge. Apply before the potato foliage obscures the Docks.
Sugarcane	Awnless Barnyard Grass, Barnyard Grass, Crab Grass, Crowsfoot Grass, Green Summer Grass, Giant Paspalum, Hairy Panic Itch Grass, Johnson Grass, Para Grass, Summer Grass Guinea Grass (Seedlings only – up to 10cm)	Boom Sprayer 8.5L in 200 to 400L water/ ha Aircraft 8.5L in a min. 22L water/ha Spot Application <sup>#</sup> 200mL in 9.8L of water In mixtures with Actril *DS use at least 55L water/ha	QLD, NSW only	Crop stage: Apply post-emergence in plant or ratoon cane.
				<b>Weed stage:</b> Apply when weeds are actively growing, before flowering and before they exceed 200 to 250mm in height unless otherwise indicated. Optimal results will be obtained when the relative humidity is high (over 80%) and temperature above 17°C. Residual control of grasses germinating from seed will persist for 6 to 10 weeks, depending on field conditions.
				<b>Surfactant:</b> Wetspray 1000 at 200mL/100L to improve wettability and coverage and reduce spray run-off.
				<b>Directed application:</b> Ideally the spray should be directed to minimise coverage of the cane foliage. Aircraft application may be necessary in salvage situations and could result in some crop damage.
				D0 NOT apply tank mixes from aircraft.
				<b>Caution:</b> Certain varieties have not been screened for tolerance to this product. Treat a small area first, by the same technique as that to be used commercially to check tolerance. Variety Q68 should not be treated.
				# With knapsack or hand lance, ensure uniform coverage but do not spray to run-off.

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

WITHHOLDING PERIOD:

APPLE ORCHARDS, LUCERNE, ONIONS, PASTURES, PERENNIAL RYEGRASS: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 21 DAYS AFTER APPLICATION.



# **GENERAL INSTRUCTIONS**

**Note:** The performance of TITAN Asulam 400 Herbicide may be reduced if mixed with water which has a pH of less than 6.

#### MIXING

Half fill spray tank with clean water. Add the required amount of product to the spray tank and top up to required volume with water. Thoroughly agitate before applying. When using high volume applications, maintain agitation during application.

DO NOT leave prepared spray in the tank overnight.

If sprays are prepared in a bulk mixing tank at a central point, always stir thoroughly before drawing from the tank. Except for bracken control and sugarcane use, DO NOT add a wetting agent or crop damage may result.

# APPLICATION

Boom Sprayer: Apply a minimum of 100 litres of water per hectare.

**Aerial Application:** Apply a minimum of 28 litres per hectare (lower rates have not been tested).

DO NOT apply tank mixes from aircraft.

**Carpet Wiper:** Calibrate the wiper equipment by adjusting the flow rate and tractor speed to ensure the herbicide is delivered at the recommended rate. For 25 litre tank, the following rates can be used to deliver the recommended rate of TITAN Asulam 400 Herbicide per hectare.

TITAN Asulam 400 Herbicide	4.0L
BP Ulvapron*	0.5L
Water	20.5L
Speed of Travel	10km/hr
Flow Rate	1L/min

#### COMPATIBILITY

This product is compatible in the spray tank with Actril\* DS, Wetspray 1000, BP Ulvapron\*, ethofumesate and atrazine. Mixtures should not be left overnight before spraying. As formulations of other manufacturers' products are beyond the control of TITAN AG Pty Ltd, all mixtures should be tested prior to mixing commercial quantities.

### **RESISTANT WEEDS WARNING**

TITAN Asulam 400 Herbicide is a member of the Carbamate group of herbicides and has diverse



sites of action. For weed resistance management TITAN Asulam 400 Herbicide is a Group 18 herbicide. Some naturally occurring weed biotypes resistant to TITAN Asulam 400 Herbicide and other Group 18 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 Asulam 400 Herbicide or other Group 18 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 Asulam 400 Herbicide to control resistant weeds.

## 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 plants/crops, cropping lands or pastures.

# 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 the closed original container in a dry, well-ventilated area, as cool as possible. D0 NOT store for prolonged periods in direct sunlight. Wash the spraying equipment thoroughly before and after use. Triple rinse containers before disposal. Add rinsings to the spray tank. D0 NOT dispose of undiluted chemicals on-site. Break, crush or puncture and bury empty containers in a local authority landfill. If not available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burnt.

# SAFETY DIRECTIONS

Avoid contact with eyes and skin. DO NOT inhale spray mist. If product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

#### **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 Asulam 400 Herbicide is available from TITAN AG Pty Ltd on request. Call Customer Service on (02) 9999 6655 or visit www.titanag.com.au

**CONDITIONS OF SALE:** TITAN AG Pty Ltd shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on TITAN AG's skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of TITAN AG Pty Ltd has any authority to add to or alter these conditions.

Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects. <u>Precautionary</u>: Avoid breathing dust/fume/gas/mist/vapours/spray. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves. IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label). Collect spillage. Dispose of contents/container in accordance with local/regional/national regulations.



