

Product Name: Titan CC & Dry OTT Gly 700 Herbicide
APVMA Approval No: 63021/142763



Label Name:	Titan CC & Dry OTT Gly 700 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:	700 g/kg GLYPHOSATE PRESENT AS THE MONO-AMMONIUM SALT
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Mode of Action:	GROUP 9 HERBICIDE
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Statement of Claims:	For the control of annual and perennial weeds in Roundup Ready Flex cotton crops and Roundup Ready canola crops and Trueflex canola crops and for the control of annual and perennial weeds in agricultural areas, tree and vine crops, pasture, commercial, industrial and public service areas as per the Directions for Use table
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Net Contents:	1 kg - 20 kg
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Restraints:	<p>RESTRAINTS: DO NOT disturb weeds by cultivation, sowing or grazing for six hours following treatment of annual weeds and seven days for perennial weeds. DO NOT treat weeds under poor growing or dormant conditions such as occur in drought, water logging, disease, insect damage or following frosts. Reduced control may also occur when treating weeds heavily covered with dust or silt. Rainfall occurring up to 6 hours after application may reduce effectiveness. Heavy rainfall within 2 hours of application may wash the chemical off the foliage and a repeat treatment may be required. DO NOT use prior to sowing Tomatoes. DO NOT use as the only method of weed control.</p> <p>SPRAY DRIFT RESTRAINTS Specific definitions for terms used in this section of the label can be found atapvma.gov.au/spraydrift DO NOT allow bystanders to come into contact with the spray cloud.</p>
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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. 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.

Directions for Use: This section contains file attachment.

Other Limitations:

Withholding Periods: WITHHOLDING PERIODS:
ROUNDUP READY FLEX COTTON
NOT REQUIRED WHEN USED AS DIRECTED

ROUNDUP READY CANOLA and Trueflex Canola
Harvest: NOT REQUIRED WHEN USED AS DIRECTED
Grazing: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER
APPLICATION
For all other uses: NOT REQUIRED WHEN USED AS DIRECTED.

Trade Advice:

General Instructions: GENERAL INSTRUCTIONS

This product is a non-volatile, water soluble granule with non-selective herbicidal activity against many annual and perennial broadleaf weeds and grasses and is registered for use on Roundup Ready Flex cotton and Roundup Ready canola to control annual and perennial broadleaf weeds and grasses. This product is absorbed by plant foliage and green stems. It is inactivated immediately in the soil and does not provide residual weed control. This product moves through the plant from the point of contact and into the root system. Visible effects on annual weeds take 3-7 days, but on perennial weeds may not be obvious for 2-3 weeks or longer in some cases. Visible effects of control may be delayed by cool or cloudy weather at and following treatment. Visible effects are a gradual yellowing and wilting of the plant which advances to complete browning of above ground growth and deterioration of underground plant parts.

PREVENTATIVE RESISTANCE MANAGEMENT

Growers of Roundup Ready Flex cotton must practise preventative resistance management strategies that have been endorsed by the TIMS Herbicide Tolerant Crop Technical Panel. These practices are detailed in the Integrated Weed Management Strategy included in the relevant TITAN AG Pty Ltd Crop Management Plan. Growers must follow the Crop Management Plan. The approved Crop Management Plan is provided with the glyphosate product, and copies are also provided on the website www.titanag.com.au. The CMP requires that growers must also allow TITAN AG or its agent to undertake the Weed Management Audit that is endorsed by the TIMS Herbicide Tolerant Crop Technical Panel. To minimise the risk of weeds developing resistance to TITAN CC & Dry OTT Gly 700 Herbicide use in conjunction with herbicides from alternative mode of actions groups and/or

non-chemical weed control measures such as chipping and inter-row cultivation.

RESISTANT WEEDS REPORTING

It is recommended that growers collect seed samples where weeds that are normally sensitive to glyphosate become resistant, or are thought to be resistant. Roundup Ready Flex cotton related incidents should be reported as part of the Weed Management Audit to TITAN AG Pty Ltd and the Australian Pesticides and Veterinary Medicines Authority. Growers and Technology Service Providers are required to report any adverse events, such as suspected weed resistance, to TITAN AG Pty Ltd as soon as it is identified. TITAN AG Pty Ltd will investigate the incident and produce a report of any incidents of confirmed resistance of weeds to TITAN CC & Dry OTT Gly 700 Herbicide in target weed species which are normally susceptible to this herbicide and forward the report as soon as practicable to the Australian Pesticides and Veterinary Medicines Authority.

MIXING INSTRUCTIONS

This granular product dissolves readily in water. Where product is supplied in Water Soluble Measure Packs, these will readily break up in the spray tank and dissolve in a few minutes. From boom applications, water volumes should not be less than 6 litres per 1kg of TITAN CC & Dry OTT Gly 700 Herbicide. Reduced results may occur if water containing soil is used, eg. water from ponds and unlined ditches or of hard water containing calcium salts is used. Ensure the spray tank is free of any residue of previous spray materials. Fill the spray tank with one half the required amount of clean water and add the proper amount of this product. Mix well before adding the remaining portion of water. Placing the filling hose below the surface of the spray solution will prevent excessive foaming. Removing hose from tank immediately after filling will prevent back siphoning into water source. DO NOT use mechanical agitators as these may cause excessive foaming.

APPLICATION INFORMATION

This product is a non-selective translocated herbicide. Direct spray contact, or even slight drift, may cause severe injury or destruction of any growing crop or other desirable plants including trees. Clean all equipment after use by thoroughly washing with water.

BOOM EQUIPMENT

Use recommended rates of this product in 75 to 200 litres of clean water per hectare. When using this product at 250-700g/ha spray volumes in the range of 25-100L/ha are preferred. Fan nozzle equipment is recommended, using pressures in the range 240-280kPa. Boom height must be set to ensure double overlap of nozzle patterns at the top of the weed canopy.

AERIAL EQUIPMENT

DO NOT apply treatments by aircraft in situations where drift onto sensitive crops, pastures or desirable trees is likely to occur. Apply treatments using boom or Micronair equipment using a spray volume not less than 20L/ha and using settings to produce a COARSE to VERY COARSE spray quality. Swath width should be set to take into account aircraft type, wind conditions and target height. Swath width will need to be reduced to avoid striping under light wind conditions and/or application to tall, dense targets. Thoroughly wash aircraft after each day of spraying to remove herbicide residues.

AIR TEMPERATURE AND RELATIVE HUMIDITY

DO NOT apply TITAN CC & Dry OTT Gly 700 Herbicide by aircraft at temperatures above 30°C. Increase spray output to at least 30L/ha when temperatures rise above 25°C. Avoid application when relative humidity falls below 35%.

EQUIPMENT MAINTENANCE & USAGE

Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminium, brass, copper, fibreglass or plastic or plastic-lined containers. This product, or spray solutions of this product, react with galvanized steel or unlined steel (except stainless steel) containers and tanks, to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture can flash or explode if ignited by open flame spark, welders torch or other ignition source. Spray tank, pumps, lines and nozzles should be thoroughly rinsed with clean water following application to prevent extensive corrosion.

Resistance Warning:	<p>RESISTANT WEEDS WARNING</p> <p>TITAN CC and Dry OTT Gly 700 Herbicide is a member of the glycine group of herbicides. TITAN CC and Dry OTT Gly 700 Herbicide has the inhibitor of EPSP synthase mode of action. For weed resistance management TITAN CC and Dry OTT Gly 700 Herbicide is a group 9 herbicide. Some naturally occurring weed biotypes resistant to TITAN CC and Dry OTT Gly 700 Herbicide and other inhibitors of EPSP synthase 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 CC and Dry OTT Gly 700 Herbicide or other inhibitors of EPSP synthase 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 CC and Dry OTT Gly 700 Herbicide to control resistant weeds. Growers must practice preventative resistance management as detailed in the Roundup Ready Flex Resistance Weed Management Plan.</p>
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Precautions:	
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Protections:	<p>PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS</p> <p>Avoid contact with foliage, green stems or fruit of crops, desirable plants and trees, since severe injury or destruction may result.</p> <p>Drift Warning: DO NOT apply under meteorological conditions or from spraying equipment that could be expected to cause spray drift onto nearby susceptible plants, adjacent crops, crop lands or pastures.</p> <p>PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT</p> <p>DO NOT contaminate streams, rivers or waterways with the chemical or used containers. DO NOT apply to weeds growing in or over water. DO NOT spray across open bodies of water.</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 out of direct sunlight. DO NOT contaminate seed, feed or foodstuff. Shake bag contents into spray tank until bag is empty. DO NOT dispose of undiluted chemicals onsite. Puncture or shred and deliver empty packaging for appropriate disposal 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>Harmful if swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. When preparing product for use, wear elbow-length PVC gloves and face shield or 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 contaminated gloves and face shield or goggles and contaminated clothing.</p>
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First Aid Instructions:	<p>FIRST AID</p> <p>If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26, New Zealand 0800 764 766.</p>
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First Aid Warnings:	
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DIRECTIONS FOR USE

ROUNDUP READY FLEX® COTTON

FOR APPLICATIONS MADE IN ROUNDUP READY FLEX® COTTON FROM CROP EMERGENCE TO HARVEST

No more than 4 applications may be made OVER THE TOP in any one crop. Any single application MUST NOT exceed 1.5kg/ha. Applications MUST NOT be made between 22 NODES and 60% BOLL OPEN STAGE. One (1) of the four (4) applications may be made OVER THE TOP in any one crop between 60% BOLL OPEN STAGE and HARVEST. Application at this stage MUST NOT exceed 1.5kg/ha.	NO MORE THAN FOUR (4) APPLICATIONS MAY BE MADE IN ANY ONE CROP AND TOTAL OF ALL APPLICATIONS IN ANY ONE CROP MUST NOT EXCEED 6.0kg/ha.
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Tank-mixtures with other herbicides or insecticides are not recommended for over-the-top applications of this product due to the potential for reduced weed control or crop injury to result. Tank mixes with Dropp may be used providing the crop is 60% open and immature bolls cannot be cut with a sharp knife, alternatively where the seed coat in bisected bolls is black in colour.

SITUATION – Cotton with Roundup Ready Flex® Technology IN CROP UP TO 22 NODES NO MORE than four (4) applications are permitted in crop up to 22 nodes. Any single application in crop up to 22 nodes MUST NOT exceed 1.5kg/ha. Total of all applications in crop must be no more than four (4) applications through all growth stages and MUST NOT exceed 6.0kg/ha.		
WEEDS CONTROLLED	RATE/HA	CRITICAL COMMENTS
Annual Ryegrass, African Turnip Weed, Annual Ground Cherry, Barnyard Grass, Bathurst Burr, Black Pigweed, Bladder Ketmia, Boggabri Weed, Button Grass, Caltrop (Yellow Vine),	520g-1.5kg	Rate Selection: Use the lower rates on young weeds and increase to the higher rate where weeds are dense or well developed. Dense infestations of some weeds e.g. Barnyard Grass, Liverseed (Urochloa) Grass may need follow up treatments for complete control.

Camel (Afgan) Melon, Caustic Weed, Columbus Grass, Deadnettle, Liverseed Grass, Mexican Poppy, Milk (Sow) Thistle, Mintweed, Native Millet, New Zealand Spinach, Noogoora Burr, Paradoxa Grass, Pigweed (up to 25cm diam.), Spear Thistle, Stinkgrass (Lovegrass), Sweet Summer Grass, Thornapple (Datura), Turnip Weed, Variegated Thistle, Volunteer Cereals, Volunteer Sorghum, Wild Oats, Wild/Prickly Lettuce, Wireweed		
Climbing Buckwheat (less than 12 leaves), Couch, Johnson Grass	980g-1.5kg	Use the higher rate on plants at the flowering/seed head stage. For Johnson Grass apply to plants with a minimum of 30cm new growth. For long term control of Couch and Johnson Grass, repeat applications will be required
Nutgrass	1.5kg followed by 1.5kg	Make first application to actively growing plants when the majority of Nutgrass plants have reached at least the 6–8 leaf stage but preferably later. Allow for maximum re-emergence before retreating.
SITUATION – Cotton with Roundup Ready Flex® Technology IN CROP Between 60% BOLL OPEN STAGE and HARVEST; QLD, NSW ONLY NOT MORE than one (1) application. DO NOT use on crops intended for seed production. Application made between 60% open stage and harvest MUST NOT exceed 1.5kg/ha. Total of all applications in crop must be no more than four (4) applications through all growth stages and MUST NOT exceed 6.0kg/ha.		
Bathurst Burr, Noogoora Burr, Winter annual weeds including Sowthistle/Milkthistle	710g-1.5kg	Use the lower rate on light infestations of small weeds, where the crop canopy allows adequate spray coverage of the weeds. Increase to the higher rate when the crop canopy may limit spray coverage, when treating dense infestations, or when treating larger weeds. Apply alone or in tank mixtures with Dropp*. Apply when at least 60% of bolls are open and immature bolls cannot be easily cut

		with a sharp knife, alternatively where the seed coat in bisected bolls is black in colour. Where a leafy canopy limits spray coverage, reduced weed control can be expected. For best results under these conditions, delay application until canopy reopens following initial conditioning treatment.
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DIRECTIONS FOR USE - ROUNDUP READY CANOLA

CROP SAFETY Applications may be made in Roundup Ready canola from crop emergence to the 6 leaf stage (prior to bud formation). Sequential applications must be at least 14 days apart and canola must have incremental growth of at least 2 new leaves between applications. Some short-term, visual yellowing may occur when CC AND DRY OTT Gly 700 HERBICIDE is applied. This effect is temporary and will not influence crop growth or yield. No additional surfactant is required for use in Roundup Ready canola. TITAN Spray Grade Ammonium Sulphate Herbicide Adjuvant may increase the performance of this product on annual and perennial weeds, particularly under hard water conditions (high levels of calcium, magnesium or bicarbonate ions) or drought conditions.

SITUATION - ROUNDUP READY® CANOLA Before use in this situation is carried out users should consult the Roundup Ready Canola Resistance Management Plan which has been developed to minimise the evolution of herbicide resistance in weed populations.

WEEDS CONTROLLED	GROWTH STAGE OF CROP	GROWTH STAGE OF WEED	RATE	CRITICAL COMMENTS
Annual Ryegrass, Barley Grass, Brome Grass, Canary Grass, Capeweed, Patersons	Crop emergence to 6 leaf (prior to bud formation)	For grass weeds and volunteer cereals: 1 leaf to mid-tillering. For volunteer	887g/ha	Up to 2 applications only may be made in any one crop. Each application must be 0. 887 kg/ha. Repeat applications may be required if a second flush of weeds germinates but do not apply after the 6-leaf stage of the crop. For sequential applications, applications must be at least 14 days apart and the canola crop must have incremental growth of two leaves between applications. The canola crop must have not advanced beyond the latest recommended

growth stage

Curse, Saffron Thistle, Scotch Thistle, Silver Grass, Spear Thistle, Variegated Thistle, Volunteer Cereals, Wild Mustard, Wild Oats, Wild Radish, Wild Turnip, Winter Grass		plants and/or broadleaf weeds: 1 true leaf to 8 leaves		(i.e. 6 leaf). Ensure broadleaf weeds have at least one true leaf, and grasses two leaves before application.
Weeds as above plus, Field peas, Lupins, Sub clover, Annual Medic, Lentils, Chick peas	Crop emergence to 6 leaf (prior to bud formation). Two applications required			Two applications of TITAN CC & DRY OTT GLY 700 HERBICIDE provide higher levels of control than a single application.

CANOLA –TRUFLEX WITH ROUNDUP READY TECHNOLOGY CROP SAFETY FOR OTT APPLICATIONS

Over-the-top (OTT) applications may be made in canola varieties of TruFlex with Roundup Ready Technology (TruFlex Canola) from crop emergence to the first flowering stage. Sequential applications must be at least 14 days apart and the canola crop must have incremental growth of two leaves between applications. The canola crop must not have advanced beyond the latest

recommended growth stage (i.e. first flowering). No additional surfactant is required for use in TruFlex Canola.

NOTE: The total glyphosate active constituent applied as OTT applications up to first flowering in any one crop must not exceed 1.8 kg/ha.

SITUATION - TRUFLEX CANOLA Before use in this situation is carried out users should consult the TruFlex Canola Resistance Management Plan (RMP) which has been developed to minimise the evolution of herbicide resistance in weed populations

WEEDS CONTROLLED	GROWTH STAGE OF CROP	GROWTH STAGE OF WEED	RATE	CRITICAL COMMENTS
Annual ryegrass, Barley grass, Brome grass, Canary grass, Capeweed, Paterson's curse, Saffron thistle, Scotch thistle, Silver grass, Spear thistle, Variegated thistle,	Crop emergence to first flowering (at least 50% of plants have at least one flower).	For grass weeds and volunteer cereals: 1 leaf to mid-tillering For volunteer plants and/ or broadleaf weeds: 1 true leaf to 8 leaves	887g-1.28 kg/ha	Up to 2 applications of up to 887g/ha may be made in any one crop. Or, up to 3 applications of 1.28 kg/ha may be made in any one crop. Repeat applications may be required if a second flush of weeds germinates but DO NOT apply after the first flowering stage of the crop (except when used pre-harvest – Refer to Section 8). For sequential applications, applications must be at least 14 days apart and the canola crop must have incremental growth of two leaves between applications. The canola crop must have not advanced beyond the latest recommended growth stage (i.e. first flowering). Ensure broadleaf weeds have at least one true leaf, and grasses two leaves before application. DO NOT apply after first flowering (except when used pre-harvest – Refer to Section 8).

<p>Volunteer cereals, Wild mustard, Wild oats, Wild radish, Wild turnip, Winter grass</p>				
<p>Weeds as above plus, Annual medic, Sub clover, Volunteer chickpeas, Volunteer field peas, Volunteer lentils, Volunteer lupins</p>	<p>Crop emergence to first flowering (at least 50% of plants have at least one flower). Two applications required.</p>		<p>887g-1.28 kg/ha</p>	<p>Two applications of Titan CC & Dry OTT Gly 700 Herbicide provide higher levels of control than a single application. DO NOT apply after first flowering (except when used pre-harvest – Refer to Pre harvest uses).</p>

DIRECTIONS FOR USE-CONVENTIONAL USES

1. GENERAL WEED CONTROL	
SITUATION	CRITICAL COMMENTS (Refer to Application Checklist before using)
<p>For general weed control in commercial, industrial and public service areas.</p> <p>For specific weeds, brush and woody weeds or unwanted trees, refer to the application WEEDS CONTROLLED TABLE.</p>	<p>For the control of many grasses and broadleaf weeds.</p> <p>Rate: 5g per litre of water.</p> <p>Apply when weeds are actively growing. Apply to ensure complete and uniform wetting of foliage.</p> <p>Visible symptoms may take from 3 to develop.</p>

2. ANNUAL WEED CONTROL			
SITUATION	WEEDS	RATE	CRITICAL COMMENTS
Non-Cultivated Situations	<p>Amaranth <i>Amaranthus</i> spp.</p> <p>Barley Grass <i>Hordeum leporinum</i></p> <p>Barnyard Grass <i>Echinochloa</i> spp.</p> <p>Brome Grass <i>Bromus</i> spp.</p> <p>Caltrop <i>Tribulus terrestris</i></p> <p>Canary Grass <i>Phalaris</i> spp.</p> <p>Capeweed <i>Arctotheca calendula</i></p> <p>Cereals (volunteer wheat, barley, oats, sorghum)</p> <p>Chickweed <i>Stellaria media</i></p> <p>Cobblers Pegs <i>Bidens pilosa</i></p> <p>Deadnettle <i>Lamium amplexicaule</i></p> <p>Doublegee <i>Emex australis</i></p> <p>Fumitory <i>Fumaria</i> spp.</p> <p>Ground Cherry <i>Physalis angulata</i></p> <p>Lesser Swinecress <i>Coronopus didymus</i></p> <p>Liverseed Grass <i>Urochloa panicoides</i></p>	<p>Boom: 1-1.6kg/ha</p> <p>Handgun: 300-500g per 100L</p> <p>Knapsack: 45-75g per 15L</p> <p>Wiper Equipment: See Application section</p>	<p>Annual weeds may be sprayed anytime they are actively growing.</p> <p>Use the lower rate on weeds up to 15cm tall, increase to the higher rate where weeds are over 15cm tall.</p> <p>Visible symptoms develop in 3-7 days, but complete desiccation may take 20-30 days under cool conditions.</p> <p>This product does not provide residual weed control.</p> <p>Repeat treatments may be necessary to control later germinating weeds.</p> <p>For residual control of ANNUAL weeds, this product may be used as a tank mixture with certain residual herbicides.</p> <p>See TANK MIXTURES for directions.</p>

Mintweed	<i>Salvia reflexa</i>		
Paradoxa Grass	<i>Phalaris paradoxa</i>		
Patterson's Curse	<i>Echium plantagineum</i>		
Pigweed	<i>Portulaca oleracea</i>		
Potato Weed	<i>Galinsoga parviflora</i>		
Ryegrass	<i>Lolium rigidum</i>		
Saffron Thistle	<i>Carthamus lanatus</i>		
Silver Grass	<i>Vulpia</i> spp.		
Sow Thistle	<i>Sonchus oleraceus</i>		
Spear Thistle	<i>Cirsium vulgare</i>		
Spiny Burrgrass	<i>Cenchrus</i> spp.		
Spurge	<i>Euphorbia</i> spp.		
Sub Clover	<i>Trifolium subterraneum</i>		
Thornapple	<i>Datura</i> spp.		
Wild Mustard	<i>Sisymbrium officinale</i>		
Wild Oats	<i>Avena ludoviciana, A. fatua</i>		
Wild Turnip	<i>Brassica tournefortii</i>		
Winter Grass	<i>Poa annua</i>		
Variegated Thistle	<i>Silybum marianum</i>		

3. PERENNIAL WEED CONTROL				
WEEDS	RATE			CRITICAL COMMENTS
	Boom kg/ha	Handgun g/100L	Knapsack g/15L	
Bamboo (<i>Bambusa</i> spp.)	–	500g	75g	Apply to actively, growing foliage and/or regrowth which is between 1m and 2m tall. <u>Cut Stump:</u> Dilute 1:12, i.e. mix 1 part of this product plus 12 parts water. Cut stems back to 20cm high, pour mixture down hollow stem for wet the cut.
Bent Grass (<i>Agrostis capillaris</i>)	1.3kg	250g	40g	Apply to actively growing plants in late spring when they have some seed head development but before summer moisture stress. Bent Grass should NOT be heavily grazed at spraying. Follow up management is required to limit seedling

				re-establishment. Full disturbance with a tined implement should follow, 10-21 days after spraying. Application of this product should be followed by reseeding pasture.
Blady Grass (<i>Imperata cylindrica</i>)	4.5kg	700g	100g	Apply to actively growing plants at the early head stage.
Bracken (<i>Pteridium esculentum</i>)	4.5kg plus TITAN Organosilicone Surfactant 200mL/100L spray	700g	115g	For boom application, always add TITAN Organosilicone Surfactant, otherwise reduced results will occur. Addition of TITAN Organosilicone Surfactant (200mL/100L spray) may improve control with handgun application. <u>Wiper Equipment:</u> Double pass application is required for pipewick equipment. Bracken should be slashed in winter/spring prior to treatment. Apply this product in March-May to fully unfurled actively growing fronds but prior to frosts. Visible symptoms may not be fully apparent until the next season. Complete control will not be achieved from one application. Repeat treatment is recommended, preferably associated with pasture improvement.
Carpet Grass (<i>Axonopus</i> spp.)	1.5-3kg	500g	75g	Apply to actively growing plants at the early head stage.
Cocksfoot (<i>Dactylis glomerata</i>)	1.5-3kg	500g	75g	Apply to actively growing plants at the early head stage.
Couch (<i>Cynodon dactylon</i>)	4.5kg	700g	100g	Apply to actively growing plants when most have reached the early head stage. In SA and WA apply to active plants during Oct-Nov for best results.
Flatweed (Cat's Ear) (<i>Hypochaeris radicata</i>)	1.5-3kg	500g	75g	Apply to fully developed rosettes at the early flower stage.
Glyceria (<i>Glyceria maxima</i>)	3kg	700g	100g	Apply to actively growing plants at the mature head stage in late summer-autumn. Add Agral Spray Adjuvant 200mL/100L. Note: Control of Glyceria is only allowable in dry drains and channels and dry margins of dams, lakes and streams. DO NOT apply to weeds growing in or over water. DO NOT spray across open bodies of water and DO NOT allow spray to enter water. DO NOT allow water to return to dry channels within 4 days of application.
Guinea Grass (<i>Panicum maximum</i>)	4.5kg	700g	100g	Apply to actively growing plants when most have reached the early head stage. For wiper application, refer Wiper Equipment section.
Hoary Cress (<i>Cardaria draba</i>)	0.7kg	250g	40g	For maximum long-term reduction apply from late July-September when plants are in late rosette to flowering stage. Plants should be actively growing and not under stress of drought, frost or waterlogging. Application may be integrated with long fallows. Cultivation may start 7 days after spraying, wiper equipment may be used where sufficient stem elongation

				occurs, refer to Wiper Equipment section. In Tasmania add Agral Spray Adjuvant at 200mL/100L spray.
Johnson Grass (<i>Sorghum halepense</i>), Kangaroo Grass (<i>Themeda australis</i>), Kikuyu Grass (<i>Pennisetum clendestinum</i>)	3kg	500g	75g	Apply to actively growing plants when most have reached the early head stage. For application by wiper equipment on Johnson Grass, off-type and Volunteer Sorghum, refer Wiper Equipment section.
Lovegrass, African (<i>Eragrostis curvula</i>)	3kg	500g	75g	Apply to actively growing plants. Re-treatment and/or pasture improvement is recommended to restrict seedling re-establishment.
<i>Ludwigia peruviana</i>	–	500g	75g	Apply when actively growing and at or beyond the early bloom stage of growth, but before autumn colour changes occur. Thorough coverage is necessary for best control.
Nutgrass (<i>Cyperus rotundus</i>)	3kg	500g	75g	<u>Non-cultivated situations:</u> Apply to actively growing plants in late summer-autumn (Feb-Apr) when at least 20% have reached the head stage.
Pampas Grass (<i>Cortaderia</i> spp.)	–	500 or 700g	75 or 100g	Apply to actively growing plants during spring, summer or autumn. Ensure complete coverage of the foliage. For best results, apply after flowering. For easier access large plants may be cut or burnt prior to spraying, but first allow regrowth to reach 1m. Use the higher rate on plants over 1m high. <u>Low Volume Application:</u> Use 1:19 (5%) mixture of this product to water. Apply 2x2mL per 0.5m height. Ensure spray contacts all foliage.
Paspalum (<i>Paspalum dilitatum</i>)	3kg	500g	75g	Apply to actively growing plants when most have reached the early head stage.
Pellitory (<i>Parietaria judaica</i>)	–	500g	75g	Apply to actively growing plants prior to seeding. Repeat applications may be necessary to control seedling and/or regrowth.
Phalaris (<i>Phalaris aquatica</i>)	1.5-3kg	250-500g	40-75g	Apply to actively growing plants during winter-spring. Use the lower rate where only knock down is required, eg. prior to burning of firebreaks. Burning can usually start 14-21 days after spraying. For long term control increase to the higher rate.
Plantains (<i>Plantago</i> spp.)	1.5kg	350g	50g	Apply to actively growing plants at the early head stage. Symptoms may be slow to develop.
Prairie Grass (<i>Bromus unioloides</i>),	3kg	500g	75g	Apply to actively growing plants at the early head stage.

Qld Blue Grass (<i>Dichanthium sericeum</i>), Red-Leg Grass (<i>Brothriocloa ambigua</i>), Rhodes Grass (<i>Chloris gayana</i>)				
Rope Twitch (<i>Agropyron repens</i>)	3kg	500g	75g	Apply in late summer-autumn to actively growing plants with foliage at least 20cm high. To ensure maximum shoot emergence the area should not be cultivated in the period from the preceding winter until the time of spraying.
Silverleaf Nightshade (<i>Solarium elaeagnifolium</i>)	–	1kg	150g	Use ONLY under good soil moisture conditions. Apply to actively growing plants at the late flowering to berry stage. Repeat spraying will be necessary to restrict regrowth and seedling re-establishment.
Sorrel (<i>Rumex acetosella</i>)	3kg	500g	75g	Apply to actively growing plants when most have reached the early budstage.
Soursob (<i>Oxalis pes-caprae</i>)	0.7kg	250g	40g	For maximum long term reduction apply from late July to early September but before natural plant yellowing (senescence) occurs. Soursob should be actively growing and not under stress of drought or waterlogging. If heavy frosting has occurred allow recovery before spraying. If heavy grazing has occurred allow recovery of foliage to at least 5cm before spraying.
St John's Wort (<i>Hypericum perforatum</i>)	1.5kg	250g	40g	Apply to actively growing plants in the flowering to post flowering procumbent stem stage (generally Nov-May). Retreatment or oversowing with improved pasture species may be necessary to restrict seedling or re-establishment.
Thistle, Artichoke (<i>Cynara cardunculus</i>)	1.5-3kg	250g	40g	Apply at the rosette-early head stage.
Thistle, Californian (<i>Cirsium arvense</i>)	3kg	500g	75g	Apply to actively growing plants in the flowering stage. To ensure maximum shoot emergence the area should NOT be cultivated prior to spraying. Re-treatment and/or pasture improvement may be necessary to restrict seedling re-establishment.
Yorkshire Fog (<i>Holcus lanatus</i>)	1.5-3kg	500g	75g	Apply to actively growing plants at the early head stage.

4. BRUSH AND WOODY WEED CONTROL		
WEEDS	RATE	CRITICAL COMMENTS

	Handgun g/100 L	Knapsack g/15 L	Low Volume Kg Product to L Water	
Bitou Bush/Boneseed (<i>Chrysanthemoides monilifera</i>)	250 or 500g	40 or 75g	1:59 or 1:39	Apply to actively growing plants. Spray to wet all foliage. Best results are achieved when treated at peak flowering during winter. DO NOT apply during periods of drought stress. Use the higher rate on bushes over 1.5m. Further treatment may be necessary to restrict seedling re-establishment. <u>Low Volume Application (eg. Gas Gun or Splatter Gun):</u> Ensure spray contacts all foliage. Use the higher rate (1:39) on bushes over 1.5m high.
Boxthorn, African (<i>Lycium ferocissimum</i>)	350-500g	50-75g	–	Use the lower rate for young bushes. Increase to the higher rate for large, mature bushes. Spray to wet all foliage. DO NOT spray during hot, dry summer periods. Burning (after complete brownout), pasture improvement and/or further treatment are recommended to control seedlings and/or regrowth. Use of CDA equipment is not recommended.
Blackberry (<i>Rubus fruticosus</i>)	500-700g	75-100g	–	Apply from flowering to leaf fall (generally Jan-May). Plants should not be under stress of high temperature, drought or frost. Spray to wet all foliage. Use the higher rate on old, dense infestations over 2m high. Visible symptoms may not be fully apparent until the next season. Burning (after complete brownout), pasture improvement and/or further treatment are recommended to control seedlings and/or regrowth. Use of CDA equipment is not recommended. In Tasmania, do not treat bushes bearing mature fruit.
Crofton Weed (<i>Eupatorium adenophorum</i>)	250g	40g	–	Apply to actively growing plants with full foliage. Spray to wet all foliage. Further treatment and/or pasture improvement are recommended to restrict seedling re-establishment.
Gorze (Furze) (<i>Ulex europaeus</i>)	500g plus TITAN Organosilicone Surfactant 200mL	–	–	Apply all year round but only to actively growing plants. Always add TITAN Organosilicone Surfactant, otherwise reduced results will occur. Spray to wet all foliage. Burning (after complete brownout), pasture improvement and/or further treatment are recommended to control seedlings and/or regrowth.
Groundsel Bush (<i>Baccharis halimifolia</i>)	350-500g	50-75g	1:19	Apply to actively growing plants. DO NOT apply during winter or during periods of summer drought stress. Use the higher rate on bushes over 2m tall. Spray to wet all foliage. Further treatment and/or pasture improvement are recommended to control seedlings and/or regrowth. <u>Low Volume Application (eg. Gas Gun or Splatter Gun):</u> Use 1:19 (5%) mixture of product to water. Apply 2x2mL dose per 0.5m bush height. Ensure spray contacts all foliage. Use of CDA equipment is not recommended.
Hawthorn	500-700g	75-100g	1:19	Apply to actively growing plants from flowering to leaf fall. Spray to wet all foliage. Use the higher rate on

(<i>Crataegus</i> spp.)				bushes over 2m tall. Burning (after complete brownout), pasture improvement and/or further treatment are recommended to control seedlings and/or regrowth. <u>Low Volume Application (eg. Gas Gun or Splatter Gun):</u> Use 1:19 (5%) mixture of product to water. Apply 2x2mL dose per 0.5m bush height. Ensure spray contacts all foliage.
Lantana (<i>Lantana camara</i>)	500g	75g	1:19	Apply to actively growing plants with foliage. Ensure complete treatment of individual plants. DO NOT spray during periods of summer drought stress. Burning (after complete brownout), pasture improvement and/or further treatment are recommended to control seedlings and/or regrowth. Addition of TITAN Organosilicone Surfactant (200mL/100L) may improve control. <u>Low Volume Application (eg. Gas Gun or Splatter Gun):</u> Use 1:19 (5%) mixture of product to water. Apply 2x2mL dose per 0.5m bush height. Ensure spray contacts all foliage. <u>Sprinkler Sprayer:</u> Apply 6mL of a 1:19 (5%) solution to every square metre of treated area. Use of CDA equipment is not recommended.
Mistflower (<i>Eupatorium riparium</i>)	250g	40g	1:19	Apply to actively growing plants with full foliage. Spray to wet all foliage. Further treatment and/or pasture improvement are recommended to restrict seedling re-establishment. <u>Sprinkler Sprayer:</u> Apply 3mL of a 1:19 (5%) solution to every square metre of treated area.
Sifton Bush/Chinese Scrub (<i>Cassinea arcuata</i>)	500 or 700g	75 or 100g	1:19	Apply when actively growing. Ensure complete coverage of the bush. Pasture improvement and/or re-treatment is recommended to control seedlings and/or regrowth. <u>High Volume:</u> Use the higher rate on bushes over 1m. <u>Low Volume:</u> Apply 40mL per 0.5m height. <u>Wiper Application:</u> Double pass application is required. Application is best made to small (less than 1m) green bushes.
Sweet Briar (<i>Rosa rubiginosa</i>)	750-1000g	115-150g	1:19	Apply to actively growing plants from late flowering to leaf fall. Spray to wet all foliage. Use the higher rate on bushes over 1.5m high. Burning (after complete brownout), pasture improvement and/or further treatment are recommended to control seedlings and/or regrowth. <u>Low Volume Application (eg. Gas Gun or Splatter Gun):</u> Use 1:19 (5%) mixture of product to water. Apply 2x2mL dose per 0.5m bush height. Ensure spray contacts all foliage.

5. UNWANTED TREE CONTROL – ensure trees are actively growing at time of treatment and not under stress of drought, waterlogging or cold.				
METHOD	SPECIES CONTROLLED	TREE SIZE	MIXTURE KG PRODUCT TO L WATER	CRITICAL COMMENTS
Cut Stump	Jarraah (<i>Eucalyptus marginata</i>), Longleaf Box (<i>E. goniocalyx</i>),	0-10cm basal diameter	1:30	Dilute with water in the recommended ratio. Cut tree close to ground and immediately wet stump surface thoroughly using Splatter Gun, spray swab

	Marri (<i>E. calophylla</i>), Messmate Stringybark (<i>E. obliqua</i>), Narrowleaf Peppermint (<i>E. radiata</i>)			of bush. Remove any branches on the stump and treat any cut surface.
<u>Foliar Application:</u> Low Volume (Gas gun or Splatter gun)	Bullich (<i>Eucalyptus megacarpa</i>), Marri (<i>E. calophylla</i>), Jarrah (<i>E. marginata</i>)	0-1.5m height	1:30 add TITAN Organosilicone Surfactant at 20mL/10L spray mixture	Dilute in the recommended ratio. Calibrate Splatter Gun to apply 5mL of solution per dose as a fine spray. Apply 5mL per 0.5m tree height. Ensure spray contacts all foliage.
	<i>Eucalyptus</i> spp.	0-1.5m height	1:10 add TITAN Organosilicone Surfactant at 20mL/10L spray mixture	
<u>Foliar Application:</u> High Volume (Knapsack or Handgun)	<i>Eucalyptus</i> spp., Willows (<i>Salix babyionica</i>)	0-2.0m height	500-700g per 100L <i>Eucalyptus</i> spp. add TITAN Organosilicone Surfactant at 200mL/100L spray mixture	Spray to wet all foliage. Use the higher rate for trees 1.0 to 2.0m high.

6. GENERAL USES

ALL STATES (except where noted).
For specific rates of application refer Table 2 ANNUAL WEED CONTROL, Table 3 PERENNIAL WEED CONTROL.

SITUATION	CRITICAL COMMENTS
NON-AGRICULTURAL AREAS Around buildings, commercial and industrial areas, domestic and public service areas, rights-of-way	TITAN CC & DRY OTT GLY 700 HERBICIDE does not provide residual weed control. For residual control of annual weeds, TITAN CC & DRY OTT GLY 700 HERBICIDE may be tank mixed with certain residual herbicides. See Tank Mixtures.
AGRICULTURAL AREAS	TITAN CC & DRY OTT GLY 700 HERBICIDE may be used for control of annual and perennial weeds as directed, in agricultural land prior to sowing of any edible or non-edible crop, but not prior to transplanting Tomato seedlings.

FORESTS	<p>TITAN CC & DRY OTT GLY 700 HERBICIDE may be used prior to establishment of nurseries for site preparation prior to planting and amongst established trees using a directed or shielded spray or using selective wiper equipment.</p> <p>DO NOT allow wiper surface to contact any part of the tree. DO NOT allow spray or spray drift to contact foliage or green bark of desirable trees, since severe injury may result.</p>
<p>PEANUTS, COTTON, SOYBEANS, SUGARCANE, NAVY BEANS & CHICKPEAS</p> <p>Application using selective equipment</p> <p>QLD, NSW only</p>	<p>Application by WIPER EQUIPMENT only. Apply to weeds growing between crop rows or to weeds growing at least 15cm above the crop. DO NOT allow wiper to contact crop and ensure operating conditions do not allow solution to drip from applicator since severe injury may result. Refer to WIPER EQUIPMENT for application instructions.</p> <p><u>Shielded Sprayers (Cotton only)</u>: Apply to weeds growing between crop rows using a shielded sprayer. Refer to the Weeds Controlled tables for rates of application.</p> <p>DO NOT apply in crops less than 20cm high. DO NOT allow spray or spray drift to contact any part of the Cotton plant as severe injury or destruction may result.</p>
PASTURE	<p><u>Directed (Spot) Application</u>: TITAN CC & DRY OTT GLY 700 HERBICIDE is non-selective and may damage or kill any plant in the sprayed area. Re-treatment and/or pasture improvement may be necessary to restrict seedling establishment.</p> <p><u>Selective Application</u>: See WIPER EQUIPMENT.</p> <p><u>Boom Application</u>: TITAN CC & DRY OTT GLY 700 HERBICIDE may be used to suppress or kill existing pasture species prior to reseeding or establishment of other crops. Where spot application (spray or wiper) is undertaken, grazing stock need not be removed.</p> <p>Caution: Certain plants may be naturally toxic to stock. Where known toxic plants are present, do NOT allow stock to graze and complete browning of treated plants has occurred.</p>
<p>SUGARCANE RATOON SPRAYOUT</p> <p>Sugarcane ratoon regrowth (<i>Saccharum officinale</i>)</p>	<p>Apply under good growing conditions to actively growing ratoons 60-120cm tall.</p> <p>DO NOT apply if plants are under stress from low moisture or waterlogging.</p> <p><u>Rate</u>: 2-4.5kg/ha. Use the lower rate for suppression or where cultivation is to follow. Use the higher rate for control.</p>
<p>TREE AND VINE CROPS</p> <p>Avocado, Banana, Blueberries, Citrus fruit, Custard Apples, Duboisia Figs – dessert, Guava, Kiwifruit, Litchi, Mango, Monstera fruit, Nuts (including Almond, Pecan, Macadamia, Pistachio and walnut), Olives, Pawpaw, Persimmons, Pome fruit, Raspberries, Stone fruit, Tea, Vineyards</p>	<p>Apply as directed or shielded spray or using wiper equipment.</p> <p>DO NOT apply as a spray near trees or vines less than 3 years old unless they are effectively shielded from spray and spray drift. DO NOT allow wiper surface to contact any part of the tree, vine or palm.</p> <p><u>Citrus fruit, Litchi, Nuts, Olives and Pome fruit & Vineyards</u>: DO NOT allow spray or spray drift to contact green bark or stems, canes, laterals, suckers, fresh wounds, foliage or fruit.</p> <p><u>Tea</u>: Apply a maximum of 2kg/ha by shielded boom or directed off-centre nozzle or 0.25kg/100L by directed handgun or knapsack to avoid application to the crop.</p> <p><u>All other crops</u>: DO NOT allow spray or spray drift to contact any part of the plant including the trunk.</p> <p>Caution: Where split bark on Kiwifruit and green stems on Pawpaw occur, extreme care is required. For residual control of annual weeds, TITAN CC & DRY OTT GLY 700 HERBICIDE may be tank mixed with compatible herbicides that are labelled for use in the above crops. See TANK MIXTURES for directions.</p>

<p>DRY DRAINS & CHANNELS, DRY MARGINS OF DAMS, LAKES & STREAMS</p>	<p>DO NOT apply to weeds growing in or over water. DO NOT spray across open bodies of water and do NOT allow spray to enter the water. DO NOT allow water to return to dry channels and drains within 4 days of application.</p>
<p>ONIONS Post-plant, pre-emergence application</p>	<p>For control of annual weeds and suppression of perennial weeds, including Rope Twitch. Apply TITAN CC & DRY OTT GLY 700 HERBICIDE at 0.4-1.3kg/ha post-sowing and at least 7 days before crop is due to emerge.</p> <p>DO NOT apply to emerging Onion plants as severe injury will result.</p> <p>Use the lower rate on small, actively growing annual weeds. Increase to the higher rate for larger annual weeds (over 15cm tall) and for suppression of perennial weeds.</p>
<p>COTTON PRE-HARVEST For control of Bathurst Burr (<i>Xanthium spinosum</i>), Noogoora Burr (<i>Xanthium pungens</i>), Winter annual weeds including Sow Thistle (Milk Thistle) (<i>Sonchus oleraceus</i>) and the seasonal suppression of Nutgrass (<i>Cyperus rotundus</i>) QLD, NSW only</p>	<p>DO NOT APPLY TO CROPS INTENDED FOR SEED PRODUCTION.</p> <p>Apply alone or in tank mixtures with TITAN THIDIAZURON 500 COTTON DEFOLIANT. Apply when at least 60% of bolls are open and immature bolls can be easily cut with a sharp knife. Where a leafy canopy limits spray coverage, reduced weed control can be expected. For best results under these conditions, delay application until the canopy re-opens following initial conditioning treatment. Where the control of Noogoora Burr or Nutgrass is required, treatments should be applied prior to the onset of frosts. When tank mixed with defoliant, a slightly higher proportion of Cotton leaf may be retained, particularly where the higher rate is used. Read and follow all tank mix products label instructions.</p> <p><u>Rate:</u> Apply 1.3kg/ha for Nutgrass control and 0.65-1.3kg/ha for the other weeds. Use the lower rate on light infestations of small weeds, when the crop canopy allows adequate spray coverage of the weeds. Increase to the higher rate when the canopy may limit spray coverage, when treating dense infestations, or when treating larger weeds.</p>

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