

CAUTION

KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

TOUCHDOWN@ Herbicide

ACTIVE CONSTITUENT: 480 g/L GLYPHOSATE-TRIMESIUM

GROUP	M	HERBICIDE
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A non-selective foliar applied systemic herbicide for the control of a wide range of annual and perennial weeds as per directions for use table.

READ THE ATTACHED LEAFLET BEFORE USING THIS
PRODUCT

NET 110 LITRES

Crop Care Australasia Pty Ltd, 77 Tingira Street Pinkenba Qld 4008

Spills

Wear protective equipment to prevent skin and eye contamination and inhalation of vapours. Contain - prevent contamination of drains and waterways. Use absorbent (soil or sand, inert material, vermiculite). Collect and seal in properly labelled drums for disposal. Wash area down with excess water.

STORAGE AND DISPOSAL

Store in a closed, original container in a well-ventilated area as cool as possible and away from children, animals, food, feedstuffs, seed and fertilisers. DO NOT store for prolonged periods in direct sunlight. Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS

Harmful if inhaled or swallowed. Will irritate eyes and skin. Avoid contact with eyes and skin. Do not inhale spray mist.

WHEN MIXING AND USING

When preparing spray and using the prepared spray wear elbow-length PVC gloves and face shield.

AFTER USE

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 and face shield and contaminated clothing.

Refer to MSDS No. 41255.

FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre. If swallowed and if more than 15 minutes from a hospital, induce vomiting, preferably using Ipecac Syrup APF.

Conditions of sale

Crop Care Australasia Pty Ltd will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply or use of these goods other than responsibility for the merchantable quality of the goods and such responsibilities mandatorily imposed by Statutes applicable to the sale or supply of these goods. To the extent allowed by such Statutes the liability of Crop Care Australasia Pty Ltd is limited to the replacement of the goods or (at the option of Crop Care Australasia Pty Ltd) the refund of the price paid and is conditional upon a claim being made in writing and where possible sufficient part of the goods to enable proper examination being returned to Crop Care Australasia Pty Ltd within thirty days of delivery.

In a Transport Emergency Dial 000 Police or Fire Brigade	SPECIALIST ADVICE IN EMERGENCY ONLY 1800 033 111 ALL HOURS -AUSTRALIA WIDE
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Crop Care Australasia Pty Ltd
 ACN 061 362 347
 77 Tingira Street
 PINKENBA QLD 4008

NRA Approval No.: 39762/02

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DIRECTIONS FOR USE:

ALL STATES (except for Sugar - Qld, NSW, WA only)

RESTRAINT:

DO NOT apply if heavy rain (eg 4mm) is expected within 6 hours.

SITUATION	CRITICAL COMMENTS
GENERAL WEED CONTROL For general weed control in and around home gardens, industrial, commercial and public service areas, parks and gardens, around farm buildings and other farm situations.	For control of a wide range of grass and broadleaf weeds. Rate: 10 mL per litre of water Ensure thorough coverage of weed foliage. DO NOT allow spray to contact foliage or green bark of desirable plants. Apply under good growing conditions only to actively growing weeds.
NON-CULTIVATED LAND Industrial, commercial, domestic and public service areas.	For residual control of annual weeds 'Touchdown' can be tank mixed with 'Atradox' WG, 'Diurex' WG or 'Simagranz'. See Compatibility Section.
FORESTS, ORCHARDS, VINES, PLANTATIONS AND NURSERIES	'Touchdown' can be used prior to the establishment of the trees and vines and amongst established trees and vines using a directed or shielded spray or wiper equipment. DO NOT allow spray or spray drift to contact green bark or stems, canes, laterals, suckers, pruned surfaces or fruit. Particular care is required to avoid spray contact with the trunks of avocado, banana, guava, kiwifruit, litchi, mango, paw paw and stone fruit trees and ornamentals in the Rosaceae family. For residual control of annual weeds in citrus, pome fruit and vines 'Touchdown' may be tank mixed with 'Simagranz'. See Compatibility Section.
CROPS Sown/Transplanted	'Touchdown' can be used to control annual and perennial weeds prior to sowing most crops. In some instances crops sown or transplanted after the use of glyphosate salts have been injured by one or more factors including inadequate soil phosphorous sorption capacity especially under dry conditions, an interaction with soil fungi and/or decaying weed residues or root exudates from treated weeds. 'Touchdown' applied with selective application equipment can be used to control weeds growing between crop rows and weeds extending at least 15 cm above the crop. Avoid contact of crop foliage with 'Touchdown' or its application equipment.
SUGAR CANE RATOON SPRAYOUT For control of sugar cane <i>Saccharum officinale</i> ratoon regrowth Qld, NSW, WA only	Apply under good growing conditions only to actively growing ratoons 60-120 cm tall. DO NOT apply if plants are under stress from low moisture or waterlogging. RATE: 4 - 9 L/ha. Use the lower rate for suppression or where cultivation is to follow. Use the higher rate for control without cultivation. Varieties differ in their sensitivity to 'Touchdown' and this can be influenced by the growing conditions.
PASTURES Spot Application Wick Wiper Application	'Touchdown' is non-selective and may kill desirable plants in the sprayed area. See General Instructions - Wiper Equipment
Dry drains and channels, 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 the water. DO NOT allow water to return to dry channels and drains within 4 days of application.

ANNUAL WEEDS CONTROLLED	RATE
<p>BROADLEAFED</p> <p>Bathurst burr <i>Xanthium spinosum</i> †</p> <p>Bellvine <i>Ipomoea plebeia</i></p> <p>Black bindweed <i>Polygonum convolvulus</i></p> <p>Blue Billygoat weed <i>Ageratum houstonianum</i></p> <p>Caltrop <i>Tribulis terrestris</i></p> <p>Capeweed <i>Arctotheca calendula</i></p> <p>Carrot <i>Daucus carota</i></p> <p>Common sowthistle <i>Sonchus oleraceus</i></p> <p>Common thornapple <i>Datura stramonium</i></p> <p>Deadnettle <i>Lamium amplexicaule</i></p> <p>Fat hen <i>Chenopodium album</i></p> <p>Flaxleaf fleabane <i>Conyza bonariensis</i></p> <p>Fumitory <i>Fumaria sp</i></p> <p>Mintweed <i>Salvia reflexa</i></p> <p>Paterson's Curse <i>Echium plantagineum</i></p> <p>Prickly lettuce <i>Lactuca serriola</i></p> <p>Redroot amaranth <i>Amaranthus retroflexus</i> †</p> <p>Rough poppy <i>Papaver hybridum</i></p> <p>Rough sowthistle <i>Sonchus asper</i></p> <p>Saffron thistle <i>Carthamus lanatus</i></p> <p>Shepherd's purse <i>Capsella bursa-pasforis</i></p> <p>Slender celery <i>Apium leptophyllum</i></p> <p>Smooth catsear <i>Hypochoeris glabra</i> †</p> <p>Spear thistle <i>Cirsium vulgare</i></p> <p>Speedy weed <i>Flaveria australasica</i> †</p> <p>Storksbill (Qld, NSW, Vic, SA, WA only) <i>Erodium sp</i></p> <p>Tall fleabane <i>Conyza albida</i></p> <p>Turnip weed <i>Rapistrum rugosum</i></p> <p>Variogated thistle <i>Silybum marianum</i></p> <p>Wild turnip <i>Brassica tournefortii</i></p> <p>Wireweed <i>Polygonum aviculare</i> (apply to young plants - repeat application may be required)</p>	<p>BOOM: * 2 to 3 L/ha</p> <p>HAND SPRAY (handgun or knapsack) 500 to 700 mL/100 L</p> <p>WIPER: 1 part 'Touchdown' 2 parts water</p>

GRASSES

Annual ryegrass *Lolium rigidum*
Awnless barnyard grass *Echinochloa colona*
Barley grass *Hordeum leporinum*
Barnyard grass *Echinochloa crus-galli*
Crowsfoot grass *Eleusine indica*
Dinebra *Dinebra retroflexa*
Grain sorghum *Sorghum bicolor*
Great brome *Bromus diandrus*
Lesser canary grass *Phalaris minor*
Liverseed grass *Urochloa panicoides*
Maize *Zea mays*
Paradoxa grass *Phalaris paradoxa*
Pigeon grass *Setaria sp*
Silver grass *Vulpia sp*
Soft brome *Bromus mollis*
Sterile brome *Bromus sterilis*
Stink grass *Eragrostis cilianensis*
Wheat *Triticum aestivum*
Whorled pigeon grass *Setaria verticillata*
Wild oats *Avena fatua, A. ludoviciana*
Windmill grass *Chloris truncata*
Winter grass *Poa annua*

BOOM: *
2 to 3 L/ha

HANDSPRAY
(handgun or knapsack)
500 to 700
mL/100 L

WIPER:
1 part 'Touchdown'
2 parts water

*** NOTE:**

Use the lower rate on actively growing weeds up to **15** cm high;

Use the higher rate on weeds which are not stressed greater than 15 cm high or when conditions are dry or cold with ongoing overcast conditions.

PERENNIAL WEEDS

SPECIES CONTROLLED	STATE	RATE			CRITICAL COMMENTS	
		BOOM L/ha	HAND SPRAY per 100L	HAND SPRAY per 5L		
BROAD LEAVES, BRUSH & WOODY WEEDS, RUSHES/SEDGES	All States	-	1L	50 mL	Spray foliage thoroughly. Retreatment and/or subsequent control of seedlings may be required	
Boxthorn, African <i>Lycium ferocissimum</i>		9L	1.5L	75 mL	Add PULSE 200 mL/100L for boom and spot spray, not wiper. Slash bracken 6 months prior to application in autumn to fully expanded, actively growing fronds. Wiper application preferred for control in pasture, refer to Wiper Equipment under General Instructions.	
Bracken <i>Pteridium esculentum</i>		3L	700 mL	35 mL	Apply at early flowering and when growing actively.	
Catsear <i>Hypochoeris radicata</i>		Qld, NSW only	-	500 mL	25 mL	Spray foliage thoroughly. Follow up control of seedlings may be required.
Crofton weed <i>Eupatorium adenophorum</i>		All States	-	500 mL	25 mL	Apply when growing actively.
Fennel (Aniseed) <i>Foeniculum vulgare</i>		3L	700 mL	35 mL	Apply when heads present and plants growing well.	
Lamb's tongue <i>Plantago lanceolata</i>		6L	1 L	50 mL	Apply when plants flowering in summer and growing well. Retreatment necessary for longer term control.	
Nutgrass <i>Cyperus rotundus</i>		3L	700 mL	35 mL	Apply when growing well at early flowering.	
Redflower mallow <i>Modiola caroliniana</i>		3L	700 mL	35 mL	Apply when growing well. Wiper preferred for control in pasture - refer to Wiper Equipment under General Instructions. 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.	
Rush, common <i>Juncus usitatus</i>	1.5L	500 mL	25 mL	Apply at early flowering and when growing well.		
Salsify <i>Tragopogon porrifolius</i>	4L	1L	50 mL			
Sorrel <i>Rumex acetosella</i>	NSW, Vic, SA, WA, Tas, ACT only	1.5L	500 mL	25 mL	Apply when flowering, before natural die back occurs. Retreatment required in following season for longer term control.	
Soursob <i>Oxalis pes-caprae</i>	All States	1.5L	500 mL	25 mL	Apply at rosette to early flowering stage.	
Wild sage <i>Salvia verbenaca</i>	Qld, NSW only	1.5L	500 mL	25 mL	Apply when growing actively and flowering.	
Yellow vine <i>Tribulus micrococcus</i>						

GRASSES

Carpet grass <i>Axonopus affinis</i>	All States	3	500 mL	25 mL	Apply when growing well at early flowering.
Common reed <i>Phragmites australis</i>		9	1.3L	70 mL	Apply at early flowering. Control may not be evident until following season. Refer to Wiper equipment under General Instructions. 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.
Couch <i>Cynodon dactylon</i>		9	1.3L	70 mL	Apply when growing well at early flowering.
Cumbungi <i>Typha domingensis</i> <i>T. orientalis</i>	Qld, NSW, Vic, SA, WA, NT, ACT only	6 to 9	1.3L	70 mL	Apply in summer when in head. Plants must be growing actively. The lower rate has given good control of regrowth in the following summer. Use the higher rate when faster control is required. Refer to Wiper equipment under General Instructions. 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.
Guinea grass <i>Panicum maximum</i>	All States	9	1.3L	70 mL	Apply when growing well at early flowering.
Hamil grass <i>Panicum maximum</i> cv Hamil		6 to 9	1 to 1.3L	50 to 70 mL	Apply when growing well at early flowering. Use the lower rate under good growing conditions. Use the higher rate for more advanced growth or under less optimum growing conditions.
Humidicola <i>Brachiaria humidicola</i>					
Johnson grass <i>Sorghum halepense</i>		6	1 L	50 mL	Apply when growing well at early flowering. Refer to Wiper equipment under General Instructions
Kikuyu <i>Pennisetum clandestinum</i>		6	1	50 mL	Apply when growing well at early flowering. Refer to Wiper equipment under General Instructions
Para grass <i>Brachiaria mutica</i>		6 to 9	1 to 1.3 L	50 to 70 mL	Apply when growing well at early flowering. Refer to Wiper equipment under General Instructions
Paspalum <i>Paspalum dilatatum</i>		3	700 mL	35 mL	Apply when growing well at early flowering.
Phalaris <i>Phalaris aquatica</i>	NSW, Vic, SA, ACT only	3 to 6	500 mL to 1 L	25 to 50 mL	Apply when growing well at early flowering.
Prairie grass <i>Bromus unioloides</i>	All States	6	1 L	50 mL	Apply when growing well at early flowering.
Rhodes grass <i>Chloris gayana</i>		6	1 L	50 mL	Apply when growing well at early flowering.
Timothy grass <i>Phleum pratense</i>	NSW, Vic, SA, WA, Tas, ACT only	3	700 mL	35 mL	Apply when growing well at early flowering
Yorkshire fog grass <i>Holcus lanatus</i>	All States	3	700 mL	35 mL	Apply when growing well at early flowering

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

GENERAL INSTRUCTIONS

'Touchdown' is a non-selective foliar applied herbicide which is absorbed by green plant tissue and translocated through the plant. Weeds must be growing well for optimum performance. Any conditions eg. cold or overcast, which slow plant growth will delay or inhibit weed control. Avoid treating plants that are stressed from soil moisture deficit, frost, pests and diseases and water logging. Plants covered with dust may be less susceptible.

'Touchdown' causes yellowing and wilting of above ground parts by browning and death. Visible symptoms may take from several days to 3-4 weeks to appear, depending on the weed species and the weather conditions. In perennials 'Touchdown' controls underground roots and buds and symptoms may not be visible for a period of up to 6 weeks. Control of regrowth may not be evident until the following season.

'Touchdown' is absorbed and inactivated by soil particles and will not provide residual control of weeds. Where longer term weed control is required, 'Touchdown' can be tank mixed with certain residual herbicides (see compatibility) or follow-up applications can be made.

'Touchdown' is water soluble and can be washed off plants by rain. Do not spray if rain is likely to occur within 6 hours. Retreatment may be necessary if heavy rain (eg. 4 mm) occurs within that time.

Resistant Weeds Warning

'Touchdown' Herbicide is a member of the glycolic acid group of herbicides. 'Touchdown' has the inhibitor of EPSP synthase mode of action. For weed resistance management 'Touchdown' is a Group M herbicide.

Some naturally occurring weed biotypes resistant to 'Touchdown' and other inhibitors of EPSP synthase mode of action 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 'Touchdown' or other inhibitors of EPSP synthase mode of action herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Crop Care Australasia Pty Ltd accepts no liability for any losses that may result from the failure of 'Touchdown' to control resistant weeds.

APPLICATION

Avoid direct or indirect contact (through spray drift) of desirable plants.

Aerial application

Use the recommended rate of 'Touchdown' in 20-30L of water per ha.

Boom equipment

Use the recommended rate of 'Touchdown' in 30-250L of water per ha. The amount of water required will vary depending on the density and size of the weeds to be controlled. Where the lower rates of 'Touchdown' are used for fallow weed control, use the lower water volumes. A calibrated boom fitted with flat fan nozzles operating at the optimum pressure and height for that nozzle is recommended.

Knapsack and high volume equipment

Select or adjust nozzle(s) to give a fine spray without causing undesirable run-off.

Wiper equipment

'Touchdown' can be applied through hand held or machine mounted wiper equipment in non-crop areas and to selectively control weeds in crops and pastures. There must be sufficient height differential between the weed and crop/pasture to allow maximum contact of the wiper with the weeds without touching desirable vegetation.

Mix 1 part 'Touchdown' with 2 parts clean water.

For machine mounted wipers ground speed should be 4-8 km/hr. Two passes, at right angles or in the opposite direction will give better results.

Controlled Droplet Application equipment (CDA)

Use the following table as a guide for achieving correct application rates using the Microfit *Herbi or similar equipment.

See **Species Controlled** tables for specific rates and use recommendations.

For hand held equipment a walking speed of approximately 1 m/sec (3.6 km/hr) is recommended.

Rate of 'Touchdown' delivered at 1 m/sec	3 L/ha	6 L/ha	9 L/ha
Mixture (by volume) 'Touchdown' : water	1 : 3	1 : 1	2 : 1
Microfit *Herbi, nozzle	Blue	Blue	Yellow

Mixing

Use only clean, soft water. Use of dam water containing soil particles, or hard water eg. from bores containing calcium salts may reduce efficacy.

Fill the clean spray tank 2/3 full with water. Add the required volume of 'Touchdown' and agitate. Complete filling the tank with the hose end under the surface to minimise frothing.

Compatibility

'Touchdown' can be mixed with the following herbicides and additives where recommended: 'Atradex' WG, 'Diurex' WG, 'Simagranz'. These additives may slow down initial activity of 'Touchdown', but final weed control is not affected.

Addition of crystalline or liquid ammonium sulphate is not required with these products. Add the partner herbicide to the tank when 2/3 full under agitation, then the 'Touchdown' and complete filling.

'Touchdown' can be mixed with 'Goal' ® at the spike rate of 75 mL 'Goal'/ha to increase speed of kill and to aid control of harder-to-kill weeds **such** as storksbill *Erodium spp.* Add the 'Goal' to the 2/3 full spray tank under agitation, then the 'Touchdown' and complete filling. Do not use a tank mix of atrazine and 'Touchdown' for barnyard grass control. Also mixtures of other formulations of simazine, atrazine and diuron may reduce the activity of 'Touchdown'.

Additives

Pulse ® penetrant: 200 mL/100L spray solution for use with 'Touchdown' against bracken only.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions or from spraying equipment which may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.

PROTECTION OF LIVESTOCK

Low hazard to bees. No special precautions are required

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate dams, rivers or streams with the product or used container. DO NOT apply to weeds growing in or over water. DO NOT spray across open bodies of water.

STORAGE AND DISPOSAL (Non-Returnable Containers)

Store in the closed, original container. in a cool, dry, well-ventilated room or place away from children, animals, food, feedstuffs, drink containers, seed and fertilisers. Do not store for prolonged periods in direct sunlight. Triple or (preferably) pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site. Break, crush, puncture and bury empty containers in a local authority landfill. If not available bury the containers below 500 mm 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.

STORAGE AND DISPOSAL (Returnable Containers)

Store in a closed, original container in a well-ventilated area as cool as possible and away from children, animals, food, feedstuffs, seed and fertilisers. DO NOT store for prolonged periods in direct sunlight. Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS

Harmful if inhaled or swallowed. Will irritate eyes and skin.

Avoid contact with eyes and skin. Do not inhale spray mist.

WHEN MIXING AND USING

When preparing spray and using the prepared spray wear elbow-length PVC gloves and face shield.

AFTER USE

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 and face shield and contaminated clothing. Refer to MSDS No. 41255

FIRST AID

If poisoning occurs contact a doctor or Poisons Information centre. If swallowed and if more than 15 minutes from a hospital, induce vomiting, preferably using Ipecac Syrup APF.

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