

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

TOUCHDOWN[®]



360 HERBICIDE

ACTIVE CONSTITUENT: 360 g/L GLYPHOSATE present as the isopropylamine salt

GROUP M HERBICIDE



Water soluble herbicide for non selective control of many annual, aquatic and perennial weeds in the situations stated in the Directions for Use

IMPORTANT: Read the attached booklet before use

1000 LITRES

Syngenta Crop Protection Pty Limited

Level 1, 2-4 Lyonpark Road, Macquarie Park NSW 2113

In a transport emergency dial 000, Police or Fire Brigade

For specialist advice in an emergency only, call 1800 033 111 (24 hours)

APVMA Approval No: 62984/20-1000/0509

268042

syngenta[®]

Trim: 160mm (W) x 165mm (H) Colours: **K****STORAGE AND DISPOSAL**

Store in the closed, original container in a cool well ventilated area. DO NOT store for prolonged periods in direct sunlight.

Refillable Containers

Empty contents fully into application equipment. Close all valves and return to point of sale for refill or storage.

Other Containers

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

SAFETY DIRECTIONS

Product will irritate the eyes and skin. Avoid contact with eyes and skin. When using controlled droplet applicator wear:

- protective waterproof clothing and impervious footwear

When preparing product for use wear:

- elbow length PVC gloves
- face shield or goggles

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each days use, wash gloves, face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone 131 126.

MATERIAL SAFETY DATA SHEET

If additional hazard information is required, refer to the Material Safety Data Sheet. For a copy phone 1800 067 108 or visit our website at www.syngenta.com.au

MANUFACTURER'S WARRANTY AND EXCLUSION OF LIABILITY

Syngenta has no control over storage, handling and manner of use of this product. Where this material is not stored, handled or used correctly and in accordance with directions, no express or implied representations or warranties concerning this product (other than non-excludable statutory warranties) will apply. Syngenta accepts no liability for any loss or damage arising from incorrect storage, handling or use.

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Batch No.	
Date of Manufacture	



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DIRECTIONS FOR USE

GENERAL USE All States (except where noted) For rates of application and weeds controlled, see Weeds Controlled table	
Situation	Critical Comments Read General Application Information before using
<p>General Weed Control For general weed control in domestic areas (home gardens), commercial, industrial and public service areas, agricultural buildings and other farms situations</p> <p>For specific weeds, brush and woody weeds or unwanted trees, refer to the appropriate Weeds Controlled table</p>	<p>For the control of many grasses and broadleaf weeds. Rate: 10 mL per L of water Apply when weeds are actively growing. Apply to ensure complete and uniform wetting of foliage. Visible symptoms may take from 3 to 7 days to develop.</p>
<p>Non-Agricultural Areas Around buildings, commercial and industrial areas, domestic and public service areas, right of ways</p>	<p>TOUCHDOWN 360 does not provide residual weed control. For residual control of annual weeds, TOUCHDOWN 360 may be tank mixed with certain residual herbicides. See Tank Mixtures/Compatibility.</p>
<p>Agricultural Areas</p>	<p>TOUCHDOWN 360 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.</p>
<p>Aquatic Areas Dry drains and channels, dry margins of dams, lakes and stream situations</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>Forests</p>	<p>TOUCHDOWN 360 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. 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 Application using selective equipment Qld, NSW only</p>	<p>Wiper equipment: Apply TOUCHDOWN 360 to weeds growing between crop rows or to weeds growing at least 15 cm 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 in the Application section of the label.</p> <p>Shielded sprayers (Cotton only): Apply TOUCHDOWN 360 to weeds growing between crop rows using a shielded sprayer. Refer to the Weeds Controlled table for rates of application. DO NOT apply in crops less than 20 cm high. DO NOT allow spray or spray drift to contact part of the cotton plant as severe injury or destruction may result.</p>

Situation	Critical Comments Read General Application Information before using
<p>Tree and Vine Crops Avocado, Banana, Blueberries, Citrus, Custard Apples, Dubosia Figs – dessert, Guava, Kiwifruit, Litchi (Lychee), 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. 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 plant. Citrus, Nuts, Olives, Pome Fruit and Vegetables: DO NOT allow spray or spray drift to contact green bark or stems, canes, laterals, suckers, fresh wounds, foliage or fruit. Tea: Apply a maximum of 4 L/ha by shielded boom or directed off-centre, nozzle or 0.5 L/ 100 L by directed handgun or knapsack to avoid application to the crop. All other crops: DO NOT allow spray or spray drift to contact any part of the plant including the trunk. CAUTION: Where split bark on Kiwifruit and greens stems on Pawpaw occur, extreme care is required. For residual control of annual weeds, TOUCHDOWN 360 may be tank mixed with compatible herbicides which are labelled for use in the above crops. See Tank Mixtures/Compatibility for directions.</p>
<p>Sugarcane Ratoon Sprayout For control of Sugarcane Ratoon regrowth (<i>Saccharum officinale</i>) Qld, NSW only</p>	<p>Apply at 4 to 9 L/ha under good growing conditions only to actively growing ratoons 60 to 120 cm tall. Use the lower rate for suppression or where cultivation is to follow. Use the higher rate for control. DO NOT apply if plants are under stress from low moisture or waterlogging.</p>
<p>Pasture</p>	<p>Directed (spot) application: TOUCHDOWN 360 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 re-establishment. Selective application: See Wiper Equipment. Boom application: TOUCHDOWN 360 may be used to suppress or kill existing pasture species prior to re-seeding or establishment of other crops. Where spot application (spray or wiper) is undertaken, grazing stock need not be removed. CAUTION: Certain plants may be naturally toxic to stock. Where known toxic plants are present DO NOT allow stock to graze until complete browning of treated plants has occurred.</p>
<p>Onions Post-plant, Pre-emergence application Tas only</p>	<p>For control of annual weeds and suppression of perennial weeds, including Rope Twitch. Apply TOUCHDOWN 360 at 1 to 3 L/ha post sowing and at least 7 days before crop is due to emerge. DO NOT apply to emerging onion plants as severe injury will result. Use lower rate on small, actively growing annual weeds. Increase to the higher rate for larger annual weeds (over 15 cm tall) and for suppression of perennial weeds.</p>

Situation	Critical Comments Read General Application Information before using
<p>Cotton Pre-Harvest For control of Bathurst Burr (<i>Xanthium spinosum</i>), Nogoora Burr (<i>Xanthium pungens</i>) Winter annual weeds including Sowthistle (Milk thistle) (<i>Sonchus oleraceus</i>) and seasonal suppression of Nutgrass (<i>Cyperus rotundus</i>) Qld, NSW only</p>	<p>DO NOT APPLY TO CROPS INTENDED FOR SEED PRODUCTION. Apply alone or in tank mixtures with Dropp* or Harvade*. Apply when at least 60% of bolls are open and immature bolls cannot be easily cut with a sharp knife. Where a leafy crop canopy limits spray coverage, reduced weed control can be expected. For best results under these conditions, delay application until canopy re-opens following initial conditioning treatment. Where control of Nutgrass or Noogoora Burr 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 label directions for the tank mix products.</p> <p>Rate: Apply 2.5 L/ha for Nutgrass control and 1.25 to 2.5 L/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 crop canopy may limit spray coverage, when treating dense infestations, or when treating larger weeds.</p>

ANNUAL WEEDS: Non-Cultivated Options		
Weeds Controlled (All States)	Rate	Critical Comments Read General Application Information before using
<p>Amaranth <i>Amaranthus</i> spp. Barley Grass <i>Hordeum leporinum</i> Barnyard Grass <i>Echinochloa crus-galli</i> Brome Grass <i>Bromus</i> spp. Caltrop <i>Tribulus terrestris</i> Canary Grass (Annual Phalaris) <i>Phalaris</i> spp. Capeweed <i>Arctotheca calendula</i> (volunteer wheat, barley, oats, sorghum) Cereals <i>Stellaria media</i></p>	<p>Boom: 2 to 3 L per ha Handgun: 500 to 700 mL per 100 L Knapsack: 75 to 100 mL per 15 L</p>	<p>Annual weeds may be sprayed anytime they are actively growing. Use the lower rate on weeds up to 15 cm tall; increase to the higher rate where weeds are over 15 cm tall.</p> <p>Visible symptoms develop in 3 to 7 days but complete desiccation may take 20 to 30 days under cool conditions.</p>
<p>Chickweed <i>Bidens pilosa</i> Cobbler's Pegs <i>Lamium alplexicaule</i> Deadnettle <i>Emex australis</i> Doublegee <i>Fumaria officinalis</i> Fumitory <i>F.muralis</i></p>	<p>Wiper equipment and Controlled Droplet Applicators: See Application section</p>	<p>TOUCHDOWN 360 does not provide residual weed control. Repeat treatments may be necessary to control later germinating weeds.</p>
<p>Lesser Swinecress <i>Coronopus didymus</i> Ground Cherry <i>Physalis ixocarpa</i> Liverseed Grass <i>Urochloa panicoides</i> Paradoxa Grass <i>Phalaris paradoxa</i> Paterson's Curse <i>Echium plantagineum</i> Pigweed <i>Portulaca oleracea</i> Potato Weed <i>Gallinsoga parviflora</i> Ryegrass <i>Lolium rigidum</i> Saffron Thistle <i>Corthamus 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. Subterranean Clover <i>Trifolium subterraneum</i></p>		<p>For residual control of annual weeds, TOUCHDOWN 360 may be tank mixed with certain residual herbicides. See Tank Mixtures/Compatibility for directions.</p>
<p>Thornapple <i>Datura</i> spp. Wild Mustard <i>Sisymbrium officinale</i> Wild Oats <i>Avena</i> spp. Wild Turnip <i>Brassica tournefortii</i> Winter Grass <i>Poa annua</i> Variegated Thistle <i>Silybum marianum</i></p>		

PERENNIAL WEEDS				
Weeds Controlled	State	Rate		Critical Comments Read General Application Information before using
		Boom L/ha	Handspray per L	
Bamboo (<i>Bambusa</i> spp.)	All States	-	10 mL	Apply to actively growing foliage and/or regrowth which is between 1 m and 2 m tall. Cut Stump: Dilute 1:6, ie mix 1 part TOUCHDOWN 360 plus 6 parts water. Cut stems back to 20 cm high, pour mixture down hollow stem or wet the cut.
Bent Grass (<i>Agrostis capillaris</i>)	Vic, Tas only	2.5 L	5 mL	Apply to actively growing plants in late spring when they have some seed head development, but before summer moisture stress. Follow up management is required. Full disturbance with a tyned implement should follow 10 to 21 days after spraying. Then follow with a summer crop and/or re-seeded pasture or crop in the following autumn.
Blady Grass (<i>Imperata cylindrica</i>)	Qld, NSW only	9 L	13 mL	Apply to actively growing plants at the early head stage.
Bracken (<i>Pteridium esculentum</i>)	All States	9 L	15 mL	For boom application, always add Pulse* (200 mL per 100 L spray) otherwise reduced results will occur. Addition of Pulse (200 mL/ 100 L spray) may improve control with handgun application. Wiper application is recommended, see Wiper Equipment. Double pass application is required for pipewick equipment. Bracken should be slashed in winter/spring prior to treatment. Apply TOUCHDOWN 360 in Mar/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 1 application. Repeat treatment is recommended, preferably associated with pasture improvement.
Brown Beetle Grass (<i>Diplachne fusca</i>)	NSW only	3 L	5 mL	Refer to Critical Comments for Aquatic Areas in General Use table to minimise the entry of spray into water. DO NOT use additional surfactant/wetter unless it is approved for use in aquatic situations. Apply to actively growing plants. DO NOT apply to partially submerged plants.
Carpet Grass (<i>Axonopus</i> spp.)	All States	3 L	5 mL	Apply to actively growing plants of the early head stage.
Cocksfoot (<i>Dactylis glomerata</i>)	All States	3 L	7 mL	Apply to actively growing plants at the early head stage.

Weeds Controlled	State	Rate		Critical Comments Read General Application Information before using
		Boom L/ha	Handspray per L	
Couch (<i>Cynodon dactylon</i>)	All States	9L	13 mL	Apply to actively growing plants when most have reached early head stage. In SA and WA apply to active plants during Oct/Nov for best results.
Cumbungi (<i>Typha</i> spp.)	All States	9 L	13 mL	Refer to Critical Comments for Aquatic Areas in General Use table to minimise the entry of spray into water. DO NOT use additional surfactant/wetter unless it is approved for use in aquatic situations. Apply to actively growing plants at the early head to full head stage (summer/autumn). Retreatment may be required to restrict seedling re-establishment. Wiper application is recommended (not in Tasmania). See Wiper Equipment.
Flatweed (Cat's Ear) (<i>Hypochoeris radicata</i>)	All States	3 L	7 mL	Apply to fully developed rosettes of the early flower stage.
Glyceria (<i>Glyceria maxima</i>)	Tas only	6 L	10 mL	Apply to actively growing plants at the mature head stage in late summer/autumn. Add a non-ionic surfactant (50 to 60% ai) at 200 to 250 mL/100 L. 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 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 L	13 mL	Apply to actively growing plants at the early head stage. For wiper application, see Wiper Equipment.
Hoary Cress (<i>Cardria drabe</i>)	NSW, Vic, Tas only	1.5 L	5 mL	For maximum long term reduction apply from late July to September when plants are in late rosette to flowing stage. Plants should be actively growing and not under stress of drought, frost or waterlogging. Application may be integrated with long fallow. Cultivation may start 7 days after spraying. Wiper application may be used where sufficient stem elongation occurs. See Wiper Equipment. In Tasmania addition of a non-ionic Surfactant (50 to 60% ai) at 200 to 250 mL/100 L spray is recommended.

Weeds Controlled	State	Rate		Critical Comments Read General Application Information before using
		Boom L/ha	Handspray per L	
Johnson Grass (<i>Sorghum halepense</i>), Kangaroo Grass (<i>Themeda australis</i>), Kikuyu Grass (<i>Pennisetum clandestinum</i>)	All States	6 L	10 mL	Apply to actively growing plants at the early head stage. For wiper application on Johnson Grass, off-type and Volunteer Sorghum, see Wiper Equipment.
Lovegrass, African (<i>Eragrostis curvula</i>)	NSW, Vic, WA only	6 L	10 mL	Apply to actively growing plants. Re-treatments and/or pasture improvement is recommended to restrict re-establishment.
Nutgrass (<i>Cyperus rotundus</i>) Does not refer to other Cyperus Species which may be locally known as Nutgrass	All States	6 L	10 mL	Not cultivated situations. Apply to actively growing plants in late summer/autumn (Feb/Apr) when at least 20% have reached the head stage.
		3 L plus 3 L	7 mL plus 7 mL	Arable Land: Make first application to actively growing plants when at least 20% have reached the head stage (normally about Feb). After allowing maximum re-emergence to occur (normally in 6 to 8 weeks) it is essential to make a second application. NOTE: In arable land Nutgrass may rapidly regenerate from isolated nuts. Follow-up treatments should be made as part of a Nutgrass control program.
Pampas Grass (<i>Cortaderia</i> spp.)	All States	-	10 mL or 13 mL	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 1 m. Use the higher rate on plants over 1 m high. Low volume application: Use 1.9 (10%) mixture of TOUCHDOWN 360: Water. Apply 2 x 2 mL per 0.5 m height. Ensure spray contacts all foliage.
Paragrass (<i>Barchiara mutica</i>)	All States	9 L	13 mL	Refer to Critical Comments for Aquatic Areas in General Use table to minimise the entry of spray into water. DO NOT use additional surfactant/wetter unless it is approved for use in aquatic situations. Apply to actively growing plants at the early head stage.
Paspalum (<i>Paspalum dilatatum</i>)	All States	6 L	10 mL	Apply to actively growing plants at the early head stage.
Pellitory (<i>Patrietria judaica</i>)	NSW	-	10 mL	Apply to actively growing plants prior to seeding. Repeat applications may be necessary to control seedlings and/or regrowth.

Weeds Controlled	State	Rate		Critical Comments Read General Application Information before using
		Boom L/ha	Handspray per L	
Phalaris (<i>Phalaris aquatica</i>)	NSW, Vic, SA Only	3 to 6 L	5 to 10 mL	Apply to actively growing plants during winter to spring. Use the lower rate where only knockdown is required, eg prior to burning of firebreaks. Burning can usually start 14 to 21 days after spraying. For long term control increase to the higher rate.
Phragmites, Common Reed (<i>Phragmites australis</i>)	All States	9 L	13 mL	Refer to Critical Comments for Aquatic Areas in General Use table to minimise the entry of spray into water. DO NOT use additional surfactant/wetter unless it is approved for use in aquatic situations. Apply to actively growing, fully developed plants approaching the early head stage. Visible symptoms of control may be slow to develop and may not be fully apparent until the next season. For wiper application, see Wiper Equipment.
Plantains (<i>Plantago</i> spp.)	All States	3 L	7 mL	Apply to actively growing plants of the early head stage. Symptoms may be slow to develop.
Prairie Grass (<i>Bromus unioloides</i>), Old Blue Grass (<i>Dichanthium sericeum</i>), Red-Leg Grass (<i>Bothriochloa ambigua</i>), Rhodes Grass (<i>Chloris gayana</i>)	All States	6 L	10 mL	Apply to actively growing plants at the early head stage.
Rope Twitch (<i>Agropyron repens</i>)	Vic, Tas only	6 L	10 mL	Apply in late summer to autumn to actively growing plants with foliage at least 20 cm high. To ensure maximum shoot emergence the area should NOT be cultivated in the period from the preceding winter until the time of spraying.
Rushes (<i>Juncus</i> spp.)	All States	-	-	Refer to Critical Comments for Aquatic Areas in General Use table to minimise the entry of spray into water. DO NOT use additional surfactant/wetter unless it is approved for use in aquatic situations. Apply by wiper equipment to actively growing plants Where there is a large proportion of dead foliage, pre-slashing is recommended. Allow adequate regrowth before treatment. See Wiper Equipment.

Weeds Controlled	State	Rate		Critical Comments Read General Application Information before using
		Boom L/ha	Handspray per L	
Sedge, Tall (<i>Carex appressa</i>)	NSW, Vic, Tas only	2 or 4 L	5 to 10 mL	Refer to Critical Comments for Aquatic Areas in General Use table to minimise the entry of spray into water. DO NOT use additional surfactant/wetter unless it is approved for use in aquatic situations. Apply to actively growing plants in flowering to post-flowering (Oct/April). Use the lower rate only if the stand has been slashed prior to treatment. Re-treatment may be necessary. Visible symptoms may not be fully apparent for up to 3 months. Use of CDA equipment is not recommended.
Silverleaf Nightshade (<i>Solanum elaeagnifolium</i>)	NSW only	-	20 mL	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>)	All States	6 L	10 mL	Apply to actively growing plants when most have reached the early bud stage.
Soursob (<i>Oxalis pes-caprae</i>)	NSW, Vic, Tas, SA, WA only	1.5 L	5 mL	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 be at least 5 cm before spraying.
St. John's Wort (<i>Hypericum perforatum</i>)	All States	3 L	5 mL	Apply to actively growing plants in the flowering to post-flowering, procumbent stem stage (generally Nov/May). Re-treatment, or oversowing with improved pasture species may be necessary to restrict seedling re-establishment.
Thistle, Artichoke (<i>Cynara cardunculus</i>)	Vic, SA only	3 L	5 mL	Apply to the rosette-early head stage.
Thistle, Californian (<i>Cirium arvense</i>)	Vic, Tas only	6 L	10 mL	Apply to growing plants at the flowering stage. To ensure maximum shoot emergence the area should NOT be cultivated prior to spraying. Retreatment and/or pasture improvement may be necessary to restrict seedling re-establishment.
Yorkshire Fog (<i>Holcus lantus</i>)	All States	3 L	7 mL	Apply to actively growing plants at the early head stage.

BRUSH AND WOODY WEEDS				
Weeds Controlled	State	Rate		Critical Comments Read General Application Information before using
		Handspray per L	Low Volume TOUCHDOWN 360 : water	
Bitou Bush/ Boneseed (<i>Chrysanthemoides monilifera</i>)	Qld, NSW, Vic, Tas only	5 or 10 mL	1:29 or 1:19	Apply to actively growing plants. Spray to wet all foliage. Best results achieved when treated at peak flowing during winter. DO NOT apply during periods of drought stress. Use the higher rate on bushes over 1.5 m. Further treatment may be necessary to restrict re-establishment. Low volume application: (eg Gas gun and Splatter gun): Ensure spray contacts all foliage. Use the higher rate (1:19) on bushes over 1.5 m high.
Boxthorn, African (<i>Lycium ferocissimum</i>)	All States	7 to 10 mL		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>)	All States	10 to 13 mL		Apply from flowering to leaf fall (generally Jan to 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 2 m 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>)	Qld, NSW only	5 mL		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.

Weeds Controlled	State	Rate		Critical Comments Read General Application Information before using
		Handspray per L	Low Volume TOUCHDOWN 360 : water	
Groundsel Bush (<i>Baccharis halimifolia</i>)	Qld, NSW only	7 to 10 mL	1:9	Apply to growing plants. DO NOT apply during winter, nor during periods of summer drought stress. Use the higher rate on bushes over 2 m tall. Spray to wet all foliage. Further treatment and/or pasture improvements are recommended to control seedlings and/or regrowth. Low volume application (eg Splatter Gun and Gas Gun): Use 1:9 (10%) mixture of TOUCHDOWN 360:water. Apply 2 x 2 mL dose per 0.5 m bush height. Ensure spray contacts all foliage. Use of CDA equipment is not recommended.
Hawthorn (<i>Crataegus</i> spp.)	NSW, Vic, Tas, SA, WA only	10 to 13 mL	1:9	Apply to actively growing plants from flowering to leaf fall. Spray to wet all foliage. Use the higher rate in bushes over 2 m tall. Burning (after complete brownout), pasture improvement and/or further treatment are recommended to control seedlings and/or regrowth. Low volume application (eg Splatter Gun and Gas Gun): Use 1:9 (10%) mixture of TOUCHDOWN 360: water. Apply 2 x 5 mL dose per 0.5 m bush height. Ensure spray contacts all foliage.
Lantana (<i>Lantana camara</i>)	Qld, NSW, NT only	10 mL	1:9	Apply to actively growing plants with full 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. Additional Pulse (200 mL/100 L) may improve control. Low volume application (eg Splatter Gun and Gas Gun): Apply 2 x 2 mL dose per 0.5 m bush height. Ensure spray contacts all foliage. Sprinkler sprayer: Apply 6 mL of a 1:9 (10%) solution to every square metre of treated area. Use of CDA equipment is not recommended.
Mistflower (<i>Eupatorium riparium</i>)	Qld, NSW only	5 mL	1:9	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. Sprinkler sprayer: Apply 3 mL of a 1:9 (10%) solution to every square metre of treated area.

Weeds Controlled	State	Rate		Critical Comments Read General Application Information before using
		Handspray per L	Low Volume TOUCHDOWN 360 : water	
Sifton Bush/ Chinese Scrub (<i>Cassina arcutata</i>)	Qld, NSW only	10 or 13 mL	1:9	Apply when actively growing. Ensure complete coverage of the bush. Pasture improvement and/or re-treatment is recommended to control seedlings and/or regrowth. High volume: Use the higher rate on bushes over 1 m. Low volume: Apply 40 mL per 0.5 m height. Wiper application: Double pass application is required. Application is best made to small (less than 1 m) green bushes.
Sweet Briar (<i>Rosa rubiginosa</i>)	NSW, Vic, Tas, SA, WA only	15 to 20 mL	1:9	Apply to actively growing plants from late flowering to leaf fall. Spray to wet all foliage. Use the higher rate on bushes over 1.5 m high. Burning (after complete brownout), pasture improvement and/or further treatment are recommended to control seedlings and/or regrowth. Low volume (eg Splatter Gun and Gas Gun): Apply 2 x 5 mL dose per 0.5 m bush height. Ensure spray contacts all foliage.

UNWANTED TREES

TOUCHDOWN 360 may be used for control of many tree species.

Ensure trees are actively growing at the time of treatment and not under stress of drought, waterlogging or cold.

Method	State	Unwanted Trees	Tree Size	Mixture	Critical Comments
				TOUCHDOWN 360 : water	
Cut Stump	Qld, NSW, Vic, Tas, WA, NT only	Jarrah (<i>Eucalyptus marginata</i>), Longleaf Box (<i>E. gonioclax</i>), Marri (<i>E. calophyalia</i>), Messmate Stringybark (<i>E. obliqua</i>), Narrowleaf Peppermint (<i>E. radiata</i>)	0 to 10 cm basal diameter	1:15	Dilute TOUCHDOWN 360 with water in the recommended ratio. Cut tree close to ground and immediately wet stump surface thoroughly using splatter gun, spray, swab or brush. Remove any branches on the stump and treat cut surface.
		Privet (<i>Ligustrum</i> spp.), Rhus (<i>Toxicodendron succedaneum</i>)	0 to 30 cm basal diameter	1:1	

Method	State	Unwanted Trees	Tree Size	Mixture	Critical Comments
				TOUCHDOWN 360 : water	
Stem Injection	Qld, NSW, Vic, Tas, WA, NT only	Flooded Gum (<i>Eucalyptus grandis</i>), Ghost gum (<i>E. papuana</i>), Gum Topped Bloodwood (<i>E. dichromophloia</i>), Messmate Stringybark (<i>E. obliqua</i>), Narrowleaf Ironbark (<i>E. crebra</i>), Pink Bloodwood (<i>E. intermedia</i>), Poplar Box (<i>E. populnea</i>), Silverleaf ironbark (<i>E. melanophloia</i>), Silvertop Ash (<i>E. maculata</i>), Spotted Gum (<i>E. maculata</i>), Swamp Mahogany (<i>Tristania suaveolens</i>), White Mahogany (<i>E. acmenoides</i>), Willows (<i>Salix babylonica</i>), Privet (<i>Ligustrum</i> spp.), Rhus (<i>Toxicodendron succedaneum</i>)	Basal diameter 0 to 25 cm	Undiluted 1 mL/cut	Use an applicator calibrated to deliver 1 or 2 mL per cut. Make 5 cm cuts at an oblique angle to penetrate the sapwood beneath the bark. Space cuts at 13 cm, centres around tree circumference below any branching, otherwise remove or treat all branches below cut. On multiple trunk trees ensure each trunk is treated.
			Basal diameter over 25 to 60 cm	Undiluted 2 mL/cut	
		Camphor Laurel (<i>Cinamonum camphora</i>)	Basal diameter 0 to 25 cm	Mixture 1:1 2 mL/cut	
			Basal diameter over 25 to 60 cm	Undiluted 2 mL/cut	

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

GENERAL INSTRUCTIONS

TOUCHDOWN 360 is a non volatile, water soluble liquid product with non selective herbicidal activity against many annual and perennial broadleaf weeds and grasses. TOUCHDOWN 360 may be used for weed control in agricultural land prior to sowing any edible or non edible crop, but not prior to transplanting tomato seedlings. TOUCHDOWN 360 is absorbed by plant foliage and green stems. It is inactivated immediately in the soil and does not provide residual weed control. TOUCHDOWN 360 moves through the plant from the point of contact to and into the root system. Visible effects on annual weeds take 3 to 7 days but on perennial weeds may not be obvious for 2 to 3 weeks or longer in some cases. Visible effects of control may be delayed by cool or cloudy weather.

Visible effects are a gradual yellowing and wilting of the plant which advances to complete browning of the above ground growth and deterioration of underground plant parts.

Delay application until vegetation has emerged to the stages described in the Weeds Controlled tables.

Unemerged parts arising from unattached underground rhizomes or rootstocks of perennials will not be affected by spray and will continue to grow. For this reason best control of most perennial weeds is obtained at late growth stages approaching maturity.

Mixing

TOUCHDOWN 360 mixes readily with water. Reduced results may occur if water containing soil is used, eg water from ponds and unlined ditches, or if hard water containing calcium salts is used. Ensure the spray tank is free of any residue of previous spray materials. Use spray solutions promptly and certainly within 5 days, since a gradual loss of activity will occur.

Fill the spray tank with one half the required amount of clean water and add the proper amount of TOUCHDOWN 360. 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.

DO NOT mix, store or apply this product or spray solutions of this product in galvanized steel or unlined steel containers or spray tanks, since a highly flammable gas mixture may be found. Use stainless steel, aluminium, brass, copper, fibreglass, plastic, or plastic lined containers or spray tanks. Spray tanks, pumps, lines and nozzles should be thoroughly rinsed with clean water following application to prevent corrosion.

TOUCHDOWN 360 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.

Mixing Instructions for all Tank Mixtures

1. Fill the spray tank 1/3 to 1/2 full with clean water and start agitation.
2. Where crystalline ammonium sulphate is recommended, wash 2% w/v (2 kg/ 100 L spray solution) through a top mesh screen into the tank and mix thoroughly.
3. Add recommended herbicide/insecticide/additive to the spray tank and mix thoroughly.
4. Add TOUCHDOWN 360 and the remaining water. Mix thoroughly.
5. Add surfactant, if required, near the end of the filling process to minimise foaming.
6. Always maintain adequate agitation during application and use the tank mix promptly.

Compatibility

TOUCHDOWN 360 may be tank mixed with the following herbicides, insecticides and additives. Read and follow all label directions, restraints, plant back periods, withholding periods, regional use restrictions and safety directions for the tank mix products.

Tank Mixtures - Herbicides

Atrazine Flowable^Δ (DO NOT apply tank mix for Barnyard Grass control), 2,4-D ester, Dicamba, Glean*, Simazine Flowable^Δ, Oust*, Yield*, Stomp* 33OE, Tillmaster* CT, Ally*, Logran® 750, Flandor* 500, LVE MCPA, and Goal* CT. The addition of Goal CT at 75 mL/ha to recommended rates of TOUCHDOWN PRO prior to planting wheat or barley will improve knockdown and increase the speed at which treated weeds develop visible signs of phytotoxicity.

^ΔAdd crystalline ammonium sulphate as per Tank Mixtures - Additives and Surfactants.

Tank Mixtures - Insecticides

Dimethoate, Imidan*, Le Mat*, Lorsban* 500, Metasystox*, Perfekthion* EC400, Sumithion* ULV, and emulsifiable concentrates of dimethoate and fenitrothion.

Other insecticides have not been tested.

Tank Mixtures – Additives and Surfactants**Crystalline Ammonium Sulphate**

Crystalline Ammonium Sulphate Rate: 2% w/v (2 kg/100 L spray solutions). DO NOT apply the tank mix for Barnyard Grass control. The addition of crystalline ammonium sulphate to TOUCHDOWN 360, when used to control annual weeds, may improve the performance of TOUCHDOWN 360 under adverse environmental conditions such as cool, cloudy weather, and assist in minimising the antagonism in tank mixes of TOUCHDOWN 360 and flowable triazine herbicides. Use only crystalline ammonium sulphate, NOT prilled or granulated forms. To test quality, dissolve 2 tablespoons in 2 L of water. Swirl gently for 2 minutes. If undissolved particles remain, it is advisable to pre dissolve prior to adding to spray tank through a screen. Ammonium sulphate may be corrosive to metal parts of the sprayer. Thoroughly flush tanks, pumps and nozzles with water after use.

It is recommended that Codacide* Adjuvant be added to this product. Refer to Codacide label for rates.

Non-Ionic Surfactant

The use of a 400 g/L non ionic surfactant is recommended when treating Bracken (boom application), Eucalypt suckers and Lantana.

RATE: 200 mL/100 L spray solution

Wetter TX Surfactant

Wetter TX is recommended when treating Annual Ryegrass in spring (from beginning August to end October). Wetter TX is not a general purpose surfactant and should be used only where recommended.

RATE: 200 mL/100 L spray solution

Application**Boom Equipment**

Use recommended rates of TOUCHDOWN 360 in 25 to 200 L of clean water per hectare.

When using TOUCHDOWN 360 at 500 mL to 1.5 L/ha, spray volumes in the range 25 to 100 L/ha are preferred. Fan nozzle equipment is recommended, using pressures in the range 240 to 280 kPa. Boom height must be set to ensure double overlap of nozzle patterns at the top of the weed canopy.

High Volume Application

Example: Knapsack/Handgun Equipment.

The dilution rate is given as volume per litre, eg 10 mL TOUCHDOWN 360 per L of water. This is equal to 150 mL TOUCHDOWN 360 per 15 L of water or 1 L TOUCHDOWN 360 per 100 L of water. Adjust equipment to achieve an even spray pattern. Apply to ensure complete and uniform wetting of all foliage. For handgun equipment, a D6 spray tip (Spraying Systems Australia P/L) or equivalent, and an operating pressure of 400 to 700 kPa are recommended.

Low Volume Application

Example: Gas Gun or Splatter Gun.

Apply as an even spray to cover all foliage.

Refer to Weeds Controlled for the dilution and volume of mixture to be applied. The dilution is specified as "Low volume mixture, TOUCHDOWN 360:Water". For example, a 1:9 mixture equals one part TOUCHDOWN 360 plus 9 parts water.

Wiper Equipment

Wiper Equipment, eg ropewick, canvas, felt or carpet applicators, may be used to apply TOUCHDOWN 360 on to weeds growing in oilseed crops, sugarcane, cotton, seed and pod vegetables, tree and vine crops specified in this label, pasture and non crop areas. Avoid contact with desirable vegetation.

Operate wiper equipment a minimum of 10 cm above the crop or pasture. Weeds should be at least 15 cm above the crop or pasture at time of application. Speed of travel should be no greater than 8 km/h. Best results are achieved at lower speeds and where two applications are made in opposite directions (double pass).

Where weeds are of variable height, or occur in dense infestations or clumps, some plants may not be contacted by the herbicide solution. In these cases repeat treatment may be necessary. Mix only enough herbicide solution for immediate requirements. DO NOT store mixed solution for more than a few days. Flush out equipment with water after use.

RATE: Mix 1 L TOUCHDOWN 360 with 2 L clean water to prepare 33% solution. TOUCHDOWN 360 may be used according to the above directions for suppression or control of many annual and perennial weeds. See Weeds Controlled tables for specific use recommendations.

Controlled Droplet Application Equipment (CDA)

Use the following table as a guide for achieving the correct application rates using the Micron 10 Herbi or similar equipment. See Weeds Controlled tables for specific rates and use recommendations. For hand held equipment a walking speed of approximately 1 m/sec (4 km/h) is recommended.

DO NOT add oils to TOUCHDOWN 360/water mixture, otherwise difficulty in application and reduced weed control may occur.

CAUTION: CDA equipment produces a fine spray pattern which is not easily visible. Ensure spray pattern or drift does not contact foliage or any other green tissue of desirable plants, since severe injury or destruction may result.

Rate of TOUCHDOWN 360 delivered at 1 m/sec	3 L/ha	6 L/ha	9 L/ha
Mixture (by volume) TOUCHDOWN 360:Water	1:3	1:1	2:1
Micron Herbi, nozzle	Blue	Blue	Yellow

Aerial Equipment

Aerial equipment may be used to apply TOUCHDOWN 360 only in pasture or fallow situations prior to establishment of field crops, fodder crops, or new pasture, and for pre harvest application to cotton and sorghum crops. DO NOT use in intensive horticultural cropping areas. Use recommended rates of TOUCHDOWN 360 specified in this label up to a maximum limit of 4 L/ha. For Micronair and boom equipment, apply in a minimum spray volume of at least 20 L/ha. Droplets with an average size (or VWD) of 250 to 350 micron dia. are recommended. Swath width should be 15 to 17 m. Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove herbicide residues.

Hilly Terrain

As spraying height may vary, to maximise target contact, increase water volume to 30 to 80 L/ha and increase droplets size to at least 300 micron VMD.

Summer Conditions

High temperatures and/or low relative humidity cause excessive evaporation of spray droplets which may reduce results. When temperature reaches 25°C, increase water volume to at least 30 L/ha and increase droplet size to at least 300 micron VMD. DO NOT apply TOUCHDOWN 360 by aircraft when temperature is above 30°C.

Avoid Drift

DO NOT use with spraying equipment or under meteorological conditions which could be expected to cause spray drift onto nearby susceptible plants, adjacent crops, crop lands or pastures. Equipment settings which produce fine droplets (150 microns or less), winds over 8 km/h, inversion conditions, still air and hot dry days all contribute to drift.

General Application Information

The addition of a non ionic surfactant is recommended at a rate of 100 mL of a 600 g/L product (or equivalent) per 100 L spray solution.

DO NOT treat weeds under poor growing or dormant conditions (such as occur in drought, waterlogging, disease, insect damage or following frosts) as reduced weed control may result. Reduced efficacy may also occur when treating weeds heavily covered with dust or silt. DO NOT add additional surfactant, or mix with any other agricultural chemicals, herbicide oils, or other materials except as specifically directed on this label. Rainfall occurring up to 6 hours after application may reduce effectiveness. Heavy rainfall within 2 hours after application may wash the chemical off the foliage and a repeat treatment may be required.

Delay treatment of plants wet with dew or rain if water droplets runoff when plants are disturbed.

DO NOT disturb treated weeds by cultivation, sowing or grazing for 1 day after treatment of annual weeds and 7 days for perennial weeds, to ensure herbicide absorption.

A Withholding Period for grazing stock is not required. However, it is recommended that grazing of treated plants be delayed (as recommended above) to ensure herbicide absorption. Certain plants such as Soursob, St John's Wort and Bracken may be naturally toxic to stock. Where known toxic plants are present, grazing should be delayed until complete browning of treated plants has occurred.

Resistant Weeds Warning GROUP M HERBICIDE

TOUCHDOWN 360 Herbicide is a member of the Glycines group of herbicides. TOUCHDOWN 360 has the inhibition of EPSP synthase mode of action. For weed resistance management TOUCHDOWN 360 is a group M Herbicide. Some naturally occurring weed biotypes resistant to TOUCHDOWN 360 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 360 or other inhibitors of EPSP Synthase herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Syngenta Crop Protection Pty Limited accepts no liability for any losses that may result from the failure of TOUCHDOWN 360 to control resistant weeds. Advice as to strategies and alternative treatments that can be used should be obtained from your local supplier, consultant, local Department of Agriculture, Primary Industries Department or a Syngenta representative.

PROTECTION OF CROP, NATIVE AND OTHER NON TARGET PLANTS

Avoid contact with foliage, green stems or fruit of crops, desirable plants and trees, since severe injury or destruction may result.

DO NOT apply under meteorological conditions or from spraying equipment which could be expected to cause spray drift onto nearby susceptible plants, adjacent crops, crop lands or pastures.

PROTECTION OF WILDLIFE, FISH, CRUSTACEA AND ENVIRONMENT

DO NOT contaminate dams, rivers or streams with the product or used container.

DO NOT spray across open bodies of water. DO NOT apply to weeds growing in or over water.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool well ventilated area. DO NOT store for prolonged periods in direct sunlight.

Refillable Containers

Empty contents fully into application equipment. Close all valves and return to point of sale for refill or storage.

Other Containers

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

SAFETY DIRECTIONS

Product will irritate the eyes and skin. Avoid contact with eyes and skin. When using controlled droplet applicator wear:

- protective waterproof clothing and impervious footwear

When preparing product for use, wear:

- elbow length PVC gloves
- face shield or goggles

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each days use, wash gloves, face shield or goggles and contaminated clothing.

FIRST AID


If poisoning occurs, contact a doctor or Poisons Information Centre. Phone 131 126.

MATERIAL SAFETY DATA SHEET

If additional hazard information is required, refer to the Material Safety Data Sheet. For a copy phone 1800 067 108 or visit our website at www.syngenta.com.au

MANUFACTURER'S WARRANTY AND EXCLUSION OF LIABILITY

Syngenta has no control over storage, handling and manner of use of this product. Where this material is not stored, handled or used correctly and in accordance with directions, no express or implied representations or warranties concerning this product (other than non-excludable statutory warranties) will apply. Syngenta accepts no liability for any loss or damage arising from incorrect storage, handling or use.

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