

## CAUTION

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

Gulf Ag

# ClearUp Bio 360 Herbicide

Active Constituents: 360 g/L GLYPHOSATE (present as the isopropylamine salt)

A non-selective herbicide for the control of annual, aquatic, perennial and woody weeds in the home garden and other situations.

GROUP	M	HERBICIDE
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APVMA Approval No: 54904/1001

Pack Sizes: 1L, 5L, 20L, 110L, 200L, 1000L

### PRODUCT INFORMATION

ClearUp Bio 360 is a non-volatile, water soluble liquid product with non-selective herbicidal activity against many annual and perennial broadleaf weeds and grasses.

ClearUp Bio 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.

ClearUp Bio 360 is absorbed by plant foliage and green stems. It is inactivated immediately in the soil and does not provide residual weed control.

ClearUp Bio 360 moves through the plant from the point of contact to and into the root system. Visible effects are gradual yellowing, and wilting of the plant, which advances to complete browning of 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.

### RESISTANT WEEDS WARNING

ClearUp Bio 360 Herbicide is a member of the Glycines group of herbicides. ClearUp Bio 360 has the inhibition of EPSP synthase mode of action. For weed resistance management, ClearUp Bio 360 is a Group M herbicide. Some naturally occurring weed biotypes resistant to ClearUp Bio 360 and other Group M 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 ClearUp Bio 360 or other Group M herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Gulf Ag Pty Ltd accepts no liability for any losses that may result from the failure of ClearUp Bio 360 to control resistant weeds.

### MIXING

ClearUp Bio 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 soils 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 CG. 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 the 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.

### TANK MIXTURES/COMPATIBILITY

ClearUp Bio 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.

### 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 2.2% w/v (2kg/100L 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 Glyphosate 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.

#### **TANK MIXTURES - HERBICIDES**

Atrazine Flowable\* (DO NOT apply the tank mix for Barnyard grass control), 2,4-D ester, dicamba, chlorsulfuron, simazine flowable\*, sulfometuron methyl, oryzalin/trifluralin, pendimethalin, metsulfuron methyl, triasulfuron, LVE MCPA and oxyfluorfen.

The addition of oxyfluorfen at 75mL/ha to recommended rates of ClearUp Bio 360 prior to planting wheat or barley will improve knockdown and increase the speed at which treated weeds develop visible signs of phytotoxicity. \*Add crystalline ammonium sulphate as per directions below.

#### **TANK MIXTURES – ADDITIVES**

Crystalline Ammonium Sulphate. RATE: 2% w/v (2kg/100L spray solutions). DO NOT apply the mix for Barnyard grass control.

The addition of crystalline ammonium sulphate to ClearUp Bio 360, when used to control ANNUAL weeds, MAY improve the performance of ClearUp Bio 360 under adverse environmental conditions such as cool, cloudy weather and assist in minimising the antagonism in tank mixes of ClearUp Bio 360 and flowable triazine herbicides.

Use only crystalline ammonium sulphate, NOT prilled or granulated forms. To test quality, dissolve 2 tablespoons in 2 litres of water. Swirl gently for 2 minutes. If undissolved particles remain, it is advisable to predissolve 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.

#### **PENATRA ORGANOSILICONE SURFACTANT**

RATE: 200mL/100L spray solution

Add when treating Bracken (boom application), Gorse, Eucalypt suckers and Lantana

#### **GRASS-WETT WETTER**

RATE: 200mL/100L spray solution

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

#### **TANK MIXTURES - INSECTICIDES**

This product is compatible with the following insecticides:

Phosmet, omethoate, chlorpyrifos, fenitrothion ULV and emulsifiable concentrates of dimethoate and fenitrothion.

Other insecticides have not been tested.

ClearUp Bio 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.

#### **BOOM EQUIPMENT**

Use recommended rates of ClearUp Bio 360 in 25 to 100 litres of clean water per hectare.

When using ClearUp Bio 360 at 500mL-1.5L/ha spray volumes in the range of 25-100L/ha are preferred. Fan nozzle equipment is recommended, using pressures in the range of 240 - 280 KPa.

Boom height must be set to ensure double overlap of nozzle patterns at the top of the weed canopy.

#### **HIGH VOLUME APPLICATION**

(eg. Knapsack/handgun Equipment)

The dilution rate is given as vol/1 litre eg. 10mL

ClearUp Bio 360 per litre of water. This is equal to 150mL of ClearUp Bio 360 per 15 litres of water or 1 litre per 100 litres of water.

Adjust equipment to achieve an even spray pattern. Apply to ensure a 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 400-700 kPa are recommended.

#### **LOW VOLUME APPLICATION**

(eg. 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, ClearUp Bio 360: water". For example, a 1:9 mixture equals one part ClearUp Bio 360 plus 9 parts water.

#### **WIPER EQUIPMENT**

Wiper Equipment (eg. ropewick, canvas, felt or carpet applicators) may be used to apply ClearUp Bio 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 10cm above crop or pasture. Weeds should be at least 15cm above the crop or pasture at time of application. Speed of travel should be no greater than 8km/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 litre ClearUp Bio 360 with 2 litres of clean water to prepare a 33% solution. ClearUp Bio 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.

## APPLICATION

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 1m/sec (4km/h) is recommended. Do not add oils to ClearUp Bio 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 ClearUp Bio 360 delivered at 1m/sec	3L/ha	6L/ha	9L/ha
Mixture (by volume) ClearUp Bio 360: Water	1:3	1:1	2:1
Micron Herbi, nozzle	Blue	Blue	Yellow

### Aerial Equipment

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

### GENERAL APPLICATION INFORMATION

The addition of a non-ionic surfactant is recommended at a rate of 100mL of a 600g/L product (or equivalent) per 100L 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 run off when plants are disturbed. DO NOT disturb treated weeds by cultivation, sowing or grazing for one 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 Johns 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.

### APPLICATION ON HILLY TERRAIN

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

### APPLICATION UNDER 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 30L/ha and increase droplet size to at least 300 micron VMD. DO NOT apply ClearUp Bio 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 that produce fine droplets (150 microns or less), winds over 8km/h, inversion conditions, still air and hot dry days all contribute to drift.

### 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 which could be expected to cause spray drift onto nearby susceptible plants, adjacent crops, crop lands or pastures.

### PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

When controlling weeds near water, refer to label direction to minimise the entry of spray into the 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.

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 500mm 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.

**For refillable containers:** Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

#### **SAFETY DIRECTIONS**

Product 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 clothing, gloves and face shield or goggles.

When using controlled droplet applicator, wear protective waterproof clothing and impervious footwear.

#### **FIRST AID**

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 13 11 26).

#### **MATERIAL SAFETY DATA SHEET**

Additional information is listed in the Material Safety Data Sheet which is available from the supplier.

#### **CONDITIONS OF SALE**

The use of Gulf Ag ClearUp Bio 360 Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Gulf Ag Pty Ltd regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Gulf Ag Pty Ltd accepts with no responsibility for any consequences whatsoever resulting from the use of this product.

**In an Emergency Dial 000 Police or Fire Brigade**

## DIRECTIONS FOR USE

GENERAL WEED CONTROL – ALL STATES	
SITUATION	CRITICAL COMMENTS – Read General Application Information before using
<p>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>	<ul style="list-style-type: none"> <li>- For the control of many grasses and broadleaf weeds Rate: 10mL per litre of water</li> <li>- Apply when weeds are actively growing</li> <li>- Apply to ensure complete and uniform wetting of foliage</li> <li>- Visible symptoms may take from 3 to 7 days to develop</li> </ul>
<p><b>USE SITUATIONS – ALL STATES (EXCEPT WHERE NOTED). FOR RATES OF APPLICATION AND WEEDS CONTROLLED, SEE WEEDS CONTROLLED TABLE.</b></p>	
<p><b>NON-AGRICULTURAL AREAS</b> Around buildings, Commercial and Industrial areas, Domestic and public service areas, right-of-ways.</p>	<p>ClearUp Bio 360 does not provide residual weed control. For residual weed control, ClearUp Bio 360 may be tank-mixed with certain residual herbicides. See <b>TANK MIXTURES/COMPATIBILITY</b>.</p>
<p><b>AGRICULTURAL AREAS</b></p>	<p>ClearUp Bio 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><b>AQUATIC AREAS</b> For the control of emerged weeds in all bodies of fresh and brackish water which may be flowing, non-flowing or transient. Also for weeds on margins of streams, lakes and dams in channels and drains.</p>	<p>Reduction in effectiveness may result if more than ¼ of the above ground portion of the weed is submerged at treatment. Submerging the treated plants following treatment may result in the spray being washed from the plant surface, thus reducing effectiveness.</p> <p>Do not apply this product within 0.5km up-stream of potable water intake in flowing water (i.e. River or streams, etc.) or within 0.5km of a potable water intake in a standing body of water such as a lake, pond or reservoir.</p> <p>Applications to moving bodies of water should be made while travelling up-stream, wherever possible to prevent concentration of this herbicide in water. When making any bankside applications, do not overspray more than 0.5m into open water. Avoid spraying across moving bodies of water or where weeds do not exist. When spraying floating weeds, use a low volume, low pressure boom spray, DCA or sprinkler sprayer. Do not submerge the weeds when spraying as this may wash the herbicide off the leaves.</p> <p>When emerged infestations require the treatment of the total surface area of impounded water, treating the area in strips may avoid sudden impact on habitat.</p>
<p><b>FORESTS</b></p>	<p>ClearUp Bio 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><b>PEANUTS, COTTON, SOYBEANS, SUGARCANE, NAVY BEANS and CHICKPEAS</b> Application using selective equipment Qld, NSW only</p>	<p><b>WIPER EQUIPMENT.</b> Apply ClearUp Bio 360 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 <b>WIPER EQUIPMENT</b> in the <b>APPLICATION</b> section of the label.</p> <p><b>SHIELDED SPRAYERS.</b> (Cotton only). Apply ClearUp Bio 360 to weeds growing between crop rows using a shielded sprayer. Refer to the Weeds Controlled tables for rates of application. 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>
<p><b>TREE AND VINE CROPS</b> Avocado, Banana, Blueberries, Citrus fruit, Custard apples, Duboisia Figs – dessert, Guava,</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. <i>Citrus fruit, Nuts, Olives and Pome fruit &amp; vegetables</i></p>

GENERAL WEED CONTROL – ALL STATES	
SITUATION	CRITICAL COMMENTS – Read General Application Information before using
Kiwifruit, Litchi, Mango, Monstera fruit, Nuts (including almond, pecan, macadamia, pistachio and walnut), Olives, Pawpaw, Persimmons, Pome fruit, Raspberries, Stone fruit, Tea, Vineyards.	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 4L/ha by shielded boom or directed off-centre nozzle or 0.5L/100L by directed handgun or knapsack to avoid application to the crop. DO NOT allow spray or spray drift to contact any part of the plant including the trunk. <b>CAUTION:</b> Where split bark on Kiwifruit and greens stems on Pawpaw occur, extreme care is required. For residual weed control of annual weeds, ClearUp Bio 360 may be tank-mixed with compatible herbicides that are labeled for use in the above crops. See <b>TANK MIXTURES/ COMPATIBILITY</b> for directions.
SUGAR CANE RATOON SPRAYOUT For the control of sugar cane ratoon regrowth ( <i>Saccharum officinarum</i> ) in NSW and Qld only	Apply under good growing conditions to actively growing ratoons 60 – 120cm tall. Do not apply if plants are under stress from waterlogging or low moisture. Rate: 4.9L/ha. Use the lower rate for suppression or where cultivation is to follow. Use the higher rate for control.
PASTURE	DIRECTED (SPOT) APPLICATION: ClearUp Bio 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 establishment. SELECTIVE APPLICATION: See <b>Wiper Equipment</b> . BOOM APPLICATION: ClearUp Bio 360 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. <b>CAUTION:</b> 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.
ONIONS Post-plant, pre-emergence application. Tas only.	For control of annual weeds and suppression of perennial weeds, including Rope Twitch. Apply ClearUp Bio 360 at 1-3L/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 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.
COTTON PRE-HARVEST For the 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 rotundas</i> ). NSW and Qld only	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 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.  RATE: Apply 2.5L/ha for Nutgrass control and 1.25-2.5L/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.

**ANNUAL WEEDS - NON CULTIVATED SITUATIONS  
FOR ALL STATES**

**GENERAL WEED CONTROL – ALL STATES**

Weeds Controlled		Application Rate	Critical Comments (read application checklist before using)
<p><b>Amaranth</b> Barley grass Barnyard grass Brome Grass Caltrop Canary Grass (Annual Phalaris) Capeweed Cereals (Volunteer wheat, barley, oats, sorghum) Chickweed Cobbler's pegs Deadnettle Doublegee Fumitory Ground Cherry Lesser Swinecress Liverseed Grass Mintweed Paradoxa grass Paterson's Curse Pigweed Potato weed Ryegrass Saffron thistle Silver Grass Sow Thistle Spear Thistle Spiny Burrgrass Spurge Sub. Clover Thornapple Wild Mustard Wild Oats <b>Wild Turnip</b> <b>Winter grass</b> <b>Variegated thistle</b></p>	<p><b>Amaranthus sp.</b> <i>Hordeum leporinum</i> <i>Echinochloa spp.</i> <i>Bromus spp.</i> <i>Tribulus terrestris</i> <i>Phalaris spp.</i>  <i>Arctotheca calendula</i>  <i>Stellaria media</i> <i>Bidens pilosa</i> <i>Lamium amplexicaule</i> <i>Emex australis</i> <i>F. officinalis/ F. muralis</i> <i>Physalis viscosa</i> <i>Coronopus didymus</i> <i>Urochloa panicoides</i> <i>Salvia reflexa</i> <i>Phalaris paradoxa</i> <i>Echium plantagineum</i> <i>Portulaca oleracea</i> <i>Gallinsoga parviflora</i> <i>Lolium rigidum</i> <i>Carthamus lanatus</i> <i>Vulpia spp.</i> <i>Sonchus oleraceus</i> <i>Cirsium vulgare</i> <i>Cenchrus spp.</i> <i>Euphorbia spp.</i> <i>Trifolium subterraneum</i> <i>Datura sp.</i> <i>Sisymbrium officinale</i> <i>Avena fatua</i> <b>Brassica tournefortii</b> <b>Poa annua</b> <b>Silybum marianum</b></p>	<p>BOOM 2.3L per ha  HANDGUN 500-700mL per100L  KNAPSACK 75-100mL per 15L  <b>WIPER EQUIPMENT and CONTROLLED DROPLET APPLICATIONS- See APPLICATION section</b></p>	<p><b>Annual weeds may be sprayed anytime they are actively growing.</b>  Use the lower rate on weeds up to 15cm tall, increase to the higher rate where weeds are over 15cm tall.  Visible symptoms develop in 3-7 days but complete desiccation may take 20-30 days under cool conditions.  ClearUp Bio 360 does not provide residual weed control. Repeat treatments may be necessary to control later germinating weeds.  For residual control of annual weeds, ClearUp Bio 360 may be tank-mixed with certain residual herbicides. See <b>TANK MIXTURES/COMPATIBILITY</b> for directions.</p>

**PERENNIAL WEEDS**

Weeds Controlled	State	Boom L/ha	Handgun/ Knapsack Vol/1L	Critical Comments
Bamboo ( <i>Bambusa</i> spp.)	All States	-	10mL	Apply to actively growing foliage and/or regrowth, which is between 1m and 2m tall. Cut stump: dilute to 1:6 ie mix 1 part ClearUp Bio 360 plus 6 parts water. Cut stems back to 20cm high, pour mixture down hollow stem or wet the cut.
Bent grass ( <i>Agrostis capillaris</i> )	Vic, Tas only	2.5L	5mL	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 10-21 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, ACT only	9L	13mL	Apply to actively growing plants in the early head stage.
Bracken ( <i>Pteridium esculentum</i> )	All States	9L	15 mL	For boom applications always add Penatra Organosilicone Surfactant (200mL per 100L spray) otherwise reduced results will occur. Addition of Penatra Organosilicone Surfactant (200mL/100L spray) may improve control with handgun application.  Wiper application is recommended (see WIPER EQUIPMENT). Double pass application is required for Rope wick equipment. Bracken should be slashed in Winter/Spring prior to treatment. Apply ClearUp Bio 360 in March-May to fully unfurled actively growing fronds, but prior to frosts.  Visible symptoms may not be apparent until the next season. Repeat treatment is recommended, preferably associated with pasture improvement.
Brown Beetle Grass ( <i>Diplachne spp.</i> )	NSW, ACT only	3L	5mL	Refer to critical comments in 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 spp.</i> )	All States	3L	5mL	Apply to actively growing plants in the early head stage.
Cocksfoot ( <i>Dactylis glomerata</i> )	All States	3L	7mL	Apply to actively growing plants in the early head stage.
Couch ( <i>Cynodon dactylon</i> )	All States	9L	13mL	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.
Cumbungi ( <i>Typha spp.</i> )	All States	9L	13mL	Refer to critical comments in 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 to full head stage (summer/autumn). Re-treatment may be required to restrict seedling reestablishment. Wiper application is recommended (not in Tas). See WIPER EQUIPMENT.
Flatweed (Cats Ear) ( <i>Hypochoeris radicata</i> )	All States	3L	7mL	Apply to fully developed rosettes at the early flower stage.

Weeds Controlled	State	Boom L/ha	Handgun/ Knapsack Vol/1L	Critical Comments
Glyceria ( <i>Glyceria maxima</i> )	Tas only	6L	10mL	Refer to critical comments in 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 mature head stage in late summer/autumn.
Guinea Grass ( <i>Panicum maximum</i> )	All States	9L	13mL	Apply to actively growing plants at the early head stage. For Wiper application see WIPER EQUIPMENT.
Hoary Cress ( <i>Cardaria draba</i> )	NSW, ACT, Vic & Tas only	1.5L	5mL	<b>For maximum long term reduction, apply from late July to 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 fallow. Cultivation may start 7 days after spraying. Wiper application may be used where sufficient stem elongation occurs (see WIPER EQUIPMENT).</b> TAS: Add a non-ionic surfactant (50-60% ai) at 200-250mL/100L spray is recommended.
Johnson Grass ( <i>Sorghum halepense</i> ) Kangaroo Grass ( <i>Themeda australis</i> ) Kikuyu Grass ( <i>Pennisetum clandestinum</i> )	All States	6L	10mL	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, ACT, Vic, WA only	6L	10mL	Apply to actively growing plants. Re-treatment and/or pasture improvement is recommended to restrict re-establishment.
Nutgrass ( <i>Cyperus rotundus</i> )	All States	6L	10mL	<b>NON-CULTIVATED SITUATIONS:</b> Apply to actively growing plants in late summer/autumn (Feb-April) when at least 20% have reached the head stage.
Does not refer to other Cyperus species that may be known locally as Nutgrass.		3L + 3L	7mL + 7mL	<b>ARABLE LAND:</b> Make first application when at least 20% of plants have reached early head stage (normally about Feb). After allowing maximum re-emergence to occur (normally in 6-8 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 spp.</i> )	All States	-	10mL or 13mL	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. Low Volume Applications: Use 1:9 (10%) mixture of ClearUp Bio: water. Apply 2 x 2mL per 0.5m height. Ensure spray contacts all foliage.
Paragrass ( <i>Brachiara mutica</i> )	All States	9L	13mL	Refer to critical comments in 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	6L	10mL	Apply to actively growing plants in the early head stage.

Weeds Controlled	State	Boom L/ha	Handgun/ Knapsack Vol/1L	Critical Comments
Pellitory ( <i>Parietaria judaica</i> )	NSW, ACT only	-	10mL	<b>Apply to actively growing plants prior to seeding. Repeat applications may be required to control seedlings and/or regrowth.</b>
Phalaris ( <i>Phalaris aquatica</i> )	NSW, ACT, Vic, SA only	3– 6L	5mL-10mL	<b>Apply in winter-spring to actively growing plants.</b> Use lower rate where only knockdown is required eg prior to burning firebreaks. Burning can usually start 14-21 days after spraying. For long term control increase to the higher rate.
Phragmites (common reed) ( <i>Phragmites australis</i> )	All States	9L	13mL	Refer to critical comments in 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	All States	3L	7mL	Apply to actively growing plants at the early head stage. Symptoms may be slow to develop.
Prairie Grass ( <i>Bromus unioloides</i> ), Qld Blue Grass ( <i>Dichanthium sericeum</i> ), Red-leg Grass ( <i>Bothriocloa ambigua</i> ), Rhodes Grass ( <i>Chloris gayana</i> )	All States	6L	10mL	Apply to actively growing plants at the early head stage.
Rope twitch ( <i>Agropyron repens</i> )	Vic, Tas only	6L	10mL	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.
Rushes ( <i>Juncus spp.</i> )	All States	-	-	Refer to critical comments in 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.
Sedge, Tall ( <i>Carex appressa</i> )	NSW, ACT, VIC, Tas only	2 or 4L	5-10mL	Refer to critical comments in 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 period (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, ACT only	-	20mL	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	6L	10mL	Apply to actively growing plants when most have reached the early bud stage.

Weeds Controlled	State	Boom L/ha	Handgun/ Knapsack Vol/1L	Critical Comments
Soursob ( <i>Oxalis pes-caprae</i> )	NSW, ACT, VIC, SA, WA, TAS only	1.5L	5mL	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> )	All States	3L	5mL	Apply to actively growing plants at flowering to post flowering, procumbent stem stage (about Nov-May). Re-treatment or oversowing with improved pasture species may be necessary to restrict seedling re-establishment.
Thistle – Artichoke ( <i>Cynara cardunculus</i> )	SA, Vic only	3L	5mL	Apply at the rosette to early head stage.
Thistle – Californian ( <i>Cirsium arvense</i> )	Vic, Tas only	6L	10mL	Apply to actively growing plants at 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.
Water Couch ( <i>Paspalum distichum</i> )	All States	9L	13mL	Refer to critical comments in 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 summer-autumn (Feb-Mar). Do not treat after March because of the onset of winter dormancy. Full results may not be visible until the following spring. Not more than ¼ of the weed should be submerged at the time of treatment.
Water Hyacinth ( <i>Eichhornia crassipes</i> )	All States	6-9L	10-13mL	Refer to critical comments in 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 when actively growing and at or beyond the early bloom stage of growth. Use the higher rate on dense infestations.
Water Lettuce ( <i>Pistia stratiotes</i> )	All States	-	10-13mL	Refer to critical comments in 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. Best results are obtained from mid-summer through to winter. Use the higher rate on dense infestations.
Water Lily Yellow ( <i>Nymphaea spp.</i> )	All States	6L	10mL	Refer to critical comments in 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 when there is a maximum emergence of floating leaves. Allow 2-3 weeks for symptoms to develop, and then retreat any unaffected plants. Use low volume sprayer. Refer to AQUATIC AREAS in General Weed Control Table.
Yorkshire Fog ( <i>Holcus lanatus</i> )	All States	3L	7mL	Apply to actively growing plants at the early head stage.

#### UNWANTED TREES

ClearUp Bio 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.

STATE	METHOD	UNWANTED TREES	TREE SIZE	MIXTURE Glyphosate 360:WATER	CRITICAL COMMENTS
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STATE	METHOD	UNWANTED TREES	TREE SIZE	MIXTURE Glyphosate 360:WATER	CRITICAL COMMENTS
QLD, NSW, ACT, VIC, WA, TAS, NT only	Cut stump	Jarrah ( <i>Eucalyptus marginata</i> ) Longleaf box ( <i>E. gonioclayx</i> ) Marri ( <i>E. calophylla</i> ) Messmate ( <i>E. obliqua</i> ) Narrowleaf peppermint ( <i>E. radiata</i> )	0-10cm basal diameter	1:15	Dilute ClearUp Bio 360 with water in the recommended ratio. Cut tree close to the ground and immediately wet the stump surface thoroughly using splatter gun, spray, swab or brush. Remove any branches on the stump and treat cut surface.
		Privet ( <i>Ligustrum spp.</i> ) Rhus ( <i>Toxicodendron succedaneum</i> )	0-30 cm basal diameter	1:1	
	Foliar application: 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	1:15 Add 400g/L non-ionic surfactant at 20mL/10L spray mixture	Dilute ClearUp Bio 360 in the recommended ratio. Calibrate splatter gun to apply 5mL of ClearUp Bio 360 per dose, as a fine spray. Apply 5mL per 0.5m tree height. Ensure spray contacts all foliage.
		<i>Eucalyptus spp.</i>	0-1.5m height	1:5 Add 400g/L non-ionic surfactant at 20mL/10L spray mixture	
	Foliar application: High volume (Knapsack or handgun)	<i>Eucalyptus spp.</i> Willows ( <i>Salix babylonica</i> )	0-2.0m in height	1.0 – 1.3L per 100L  For <i>Eucalyptus spp.</i> Add 400g/L non-ionic surfactant at 200mL/100L spray mixture.	Spray to wet all foliage. Use the higher rate for trees 1.0-2.0m high.
	Stem Injection	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. sieberi</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 spp.</i> ) Rhus ( <i>Toxicodendron succedaneum</i> )	Basal diameter to 0-25cm	Undiluted 1mL/cut	Use an applicator calibrated to deliver 1 or 2mL. Make 5cm cuts at an oblique angle to penetrate the sapwood beneath the bark. Space cuts at 13cm around the tree circumference below any branching. On multiple trunk trees ensure each trunk is treated.
			Basal diameter over 25cm to 60cm	Undiluted 2mL/cut	

STATE	METHOD	UNWANTED TREES	TREE SIZE	MIXTURE Glyphosate 360:WATER	CRITICAL COMMENTS
		Camphor Laurel ( <i>Cinamonum camphora</i> )	Basal diameter 0- 25cm	Mixture 1:1 2mL/cut	
			Basal diameter over 25cm to 60cm	Undiluted 2mL/cut	

**BRUSH AND WOODY WEEDS**

Weeds Controlled	State	Rate		Critical Comments Read General Application Information before using.
		Handgun or Knapsack Vol/1L	Low Volume Glyphosate 360: Water	
Bitou Bush/Boneweed ( <i>Chrysanthemoides monilifera</i> )	QLD, NSW, ACT, VIC, TAS only	5 or 10mL	1:29 or 1:19	Apply to actively growing plants. Spray to wet all foliage. Best results 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 re-establishment. Low Volume Application (gas guns and splatter gun): Ensure spray contacts all foliage. Use the higher rate (1:19L) on bushes over 1.5m high.
Boxthorn, African ( <i>Lycium ferocissimum</i> )	All States	7-10mL	-	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 L. agg</i> )	All States	10-13mL	-	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> )	QLD, NSW, ACT only	5mL	-	Apply to actively growing plants with full foliage. Spray to wet all foliage. Further treatment and/or pasture improvement are recommended to control seedling re-establishment.
Gorse (Futze) ( <i>Ulex europaeus</i> )	All States	10mL plus Penatra	-	Apply all year round, but only to actively growing plants. Always add Penatra 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 seedling and/or regrowth.
Groundsel Bush ( <i>Baccharis halmifolia</i> )	QLD, NSW, ACT only	7-10mL	1:9	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 improvements are recommended to control seedlings and/or regrowth. Low Volume Application (eg. splatter gun and gas gun): Use 1:9 (10%) mixture of ClearUp Bio: water. Apply 2 x 2mL dose per 0.5m bush height. Ensure spray contacts all foliage. Use of CDA equipment is not recommended.
Hawthorn ( <i>Crataegus spp.</i> )	NSW, ACT, VIC, SA, WA, TAS only	10-13mL	1:9	Apply to actively growing plants from flowering to leaf fall. Spray to wet all foliage. Use the higher rate on bushes over 2m 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 ClearUp Bio 360: water. Apply 2 x 5mL dose per 0.5m bush height. Ensure spray contacts all foliage.

Weeds Controlled	State	Rate		Critical Comments Read General Application Information before using.
		Handgun or Knapsack Vol/1L	Low Volume Glyphosate 360: Water	
Lantana ( <i>Lantana camara</i> )	QLD, NSW, NT only	10mL	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 Penatra (200mL/100L) may improve control. Low Volume Application (eg. splatter gun and gas gun): Apply 2 x 2mL dose per 0.5m bush height. Ensure spray contacts all foliage. Sprinkler Sprayer: Apply 6mL at 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, ACT only	5mL	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 3mL at a 1:9 (10%) solution to every square metre of treated area.
Sifton Bush/Chinese Scrub ( <i>Cassina arcutata</i> )	QLD, NSW, ACT only	10 or 13mL	1:9	Apply when actively growing. Ensure complete coverage of the bush. Pasture improvement and/or re-treatment is recommended to control the seedlings and/or regrowth. High Volume: Use the higher rate on bushes over 1m. Low Volume: Apply 40mL per 0.5m height. Wiper Application: Double pass application is required. Application is best made to small (less than 1m), green bushes.
Sweet Briar ( <i>Rosa rubignosa</i> )	NSW, ACT, VIC, SA, WA, TAS only	15-20mL	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 1.5m 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 5mL dose per 0.5m bush height. Ensure spray contacts all foliage.

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

**WITHHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED**