



Australian Pesticides &
Veterinary Medicines Authority

Product Name: REGLONE NON-RESIDUAL HERBICIDE

APVMA Approval No: 46534/RV2026

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| Signal Headings: | POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING |
| Product Name: | REGLONE NON-RESIDUAL HERBICIDE |
| Constituent Statements: | ACTIVE CONSTITUENT: 200 g/L DIQUAT AS DIQUAT DIBROMIDE MONOHYDRATE |
| Mode of Action: | GROUP 22 HERBICIDE |
| Statement of Claims: | For pre-harvest crop desiccation in poppies and control of broadleaf weeds in certain crops as per Directions for Use. |
| Net Contents: | 5L, 20L, 100L, 200L, 1000L |
| Restrains: | <p>DO NOT remove contents except for immediate use.</p> <p>DO NOT apply by spraying equipment carried on the back of the users.</p> <p>DO NOT use open mixing/loading equipment. Closed mixing and loading MUST be used.</p> <p>DO NOT continue to use if eye irritation or bleeding from the nose occurs.</p> <p>DO NOT spray when weeds are under drought stress or when covered with dust or soil.</p> <p>DO NOT apply if heavy rains or storms are forecast within 3 days.</p> <p>DO NOT irrigate to the point of field runoff for at least 3 days after application.</p> <p>For small scale applications up to 6 ha per day: DO NOT apply using open cab equipment unless using a PF10 respirator.</p> <p>For applications greater than 6 ha per day: DO NOT apply using open cab equipment. Enclosed cab application MUST be used.</p> <p>For hand spray applications DO NOT use hand wand sprays by spraying out of the window of a vehicle.</p> <p>SPRAY DRIFT RESTRAINTS Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift</p> <p>DO NOT allow bystanders to come into contact with the spray cloud.</p> <p>DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. The advisory buffer zones in the relevant buffer zone table/s below provide guidance but may not be sufficient in all situations. Wherever possible, correctly use application</p> |

equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are surface temperature inversion conditions present at the application site during the time of application. These conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

DO NOT apply by a boom sprayer unless the following requirements are met:
 - spray droplets not smaller than a MEDIUM spray droplet size category
 - minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for boom sprayers') are observed.

Buffer zones for boom sprayers

| Application rate | Boom height above the target canopy | Mandatory downwind buffer zones (metres) | | | | |
|------------------|-------------------------------------|--|-----------------------|------------------|------------------|-----------------|
| | | Bystander areas | Natural aquatic areas | Pollinator areas | Vegetation areas | Livestock areas |
| Up to 10L/ha* | 0.5 m or lower | 110 | 275 | 0 | 35 | 0 |
| Up to 5L/ha* | 0.5 m or lower | 50 | 110 | | 20 | |
| | 1.0 m or lower | 160 | 350 | | 60 | |
| Up to 4L/ha | 0.5 m or lower | 40 | 85 | | 20 | |
| | 1.0 m or lower | 130 | 250 | | 55 | |
| Up to 3L/ha | 0.5 m or lower | 35 | 65 | | 10 | |
| | 1.0 m or lower | 100 | 180 | | 45 | |
| Up to 1.5L/ha | 0.5 m or lower | 20 | 40 | | 5 | |
| | 1.0 m or lower | 60 | 110 | | 25 | |
| Up to 700mL/ha | 0.5 m or lower | 5 | 20 | | 0 | |
| | 1.0 m or lower | 35 | 60 | | 15 | |
| Up to 400 mL/ha | 0.5 m or lower | 0 | 10 | | 0 | |
| | 1.0 m or lower | 20 | 10 | | 10 | |

*Aquatic uses only

DO NOT apply by a vertical sprayer.

DO NOT apply by aircraft unless the following requirements are met:
 - spray droplets not smaller than a MEDIUM spray droplet size category
 - for maximum release heights above the target canopy of 3m or 25% of wingspan or 25% of rotor diameter whichever is the greatest, minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for aircraft') are observed.
 - Application rate does not exceed 1.4L/ha

| Buffer zones for aircraft | |
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| | Mandatory downwind buffer zones (metres) |
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| Type of aircraft | Bystander areas | Natural aquatic areas | Pollinator areas | Vegetation areas | Livestock areas |
|----------------------------|-----------------|-----------------------|------------------|------------------|-----------------|
| Fixed-wing up to 1.4L/ha | 275 | 525 | 0 | 100 | 0 |
| Helicopter up to 1.4L/ha | 180 | 300 | | 80 | |
| Fixed-wing up to 750mL/ha | 170 | 275 | | 65 | |
| Helicopter up to 750 mL/ha | 120 | 190 | | 50 | |

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| Directions for Use: | This section contains file attachment. |
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| Other Limitations: | |
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| Withholding Periods: | <p>GRAZING:</p> <p>DO NOT GRAZE OR CUT SPRAYED VEGETATION FOR STOCK FOOD FOR 1 DAY AFTER APPLICATION</p> <p>HARVEST:</p> <p>BERRIES AND OTHER SMALL FRUITS, HOPS, BROCCOLI, CAULIFLOWER, HEAD CABBAGE, CHINESE CABBAGE, BULB ONIONS, FRUITING VEGETABLES (OTHER THAN CUCURBITS), CUCUMBERS, LEAFY VEGETABLES, LEGUME VEGETABLES, ROOT AND TUBER VEGETABLES, WHEAT AND OATS: NOT REQUIRED WHEN USED AS DIRECTED</p> <p>POPPIES: DO NOT HARVEST FOR 2 DAYS AFTER APPLICATION</p> |
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| Trade Advice: | <p>EXPORT OF TREATED PRODUCE</p> <p>Growers should note that MRLs or import tolerances do not exist in all markets for edible produce treated with REGLONE Non-Residual Herbicide. If you are growing edible produce for export, please check with Syngenta Crop Protection Pty Limited for the latest information on MRLs and import tolerances BEFORE using REGLONE Non-Residual Herbicide.</p> |
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| General Directions: | <p>REGLONE is an aqueous solution of diquat, a non-volatile herbicide with unique properties. It very quickly kills green growth with which it comes into contact and is particularly effective against broadleaf weeds. It is inactivated on contact with the soil and crop roots and seeds below the soil remain unharmed. It can be safely applied around bushes and trees which have no green bark. It is non-volatile, easily mixed with water and active at low concentrations.</p> <p>Mixing</p> <p>Add the required quantity of REGLONE to water in the spray tank and agitate to give even mixing. Agitate again if left standing. Use clean water only, as suspended soil particles in dirty water will interfere with herbicidal action.</p> <p>Wetting agent</p> |
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REGLONE contains no wetting agent, and a non-ionic wetting agent must be added to the spray mixture unless otherwise specified. Add Agral at the rate of 200 mL/100 L or BS1000 at 160 mL/100 L of prepared spray unless otherwise specified.

Application

For best results an even and complete coverage and good penetration of the spray into the target foliage is necessary. Best results will be obtained when application is made in dull weather or at the end of the day. REGLONE is rapidly absorbed and is not affected by rain falling shortly after application.

Application Rates

Gramoxone 250 is preferred where grasses are dominant and REGLONE where there are mainly broadleaf weeds.

Boom Spraying

A boomsprayer fitted with flat fan nozzles is preferred to ensure even coverage and to minimise drift. The boom should be set at sufficient height above the crop to provide a complete double overlap of the flat spray pattern. Spray drop arms on booms are useful for dense crops. A minimum spray volume of 100 L/ha is recommended. Aim for spray droplets not smaller than a MEDIUM spray droplet size.

High Volume Spot Spraying

For hand held equipment use 250 mL of product per 100 L of water and spray to visible wetness (about 700 to 1000 L/ha).

Aerial Application

Flying height, pressure, nozzle size and positioning on the aircraft should be such as to minimise spray drift. Apply 30 to 60 L of spray per hectare. Avoid spraying in high winds or under temperature inversion conditions. Wash any spillage during filling of the aircraft and make sure there are no leaks in the spraying system. Inspect the aircraft regularly for signs of corrosion and ensure the paint work is in good condition.

Caution - Use By Aircraft

Although this product is no different in drift behaviour from other chemicals, it has a rapid spotting effect on green foliage and, as with all herbicides, special care must be taken to avoid drift onto adjacent crops. Aircraft operators must not apply during periods of thermal (temperature) instability, and should avoid wind conditions and flying heights conducive to drift.

Weed Control in Asparagus, Berries and other small fruit (except grapes), Broccoli, head cabbages, cauliflower and Chinese cabbage (type Pe-tsai), Bulb onions, Fruiting Vegetables: other than cucurbits, Cucumbers, Leafy vegetables, Legume vegetables, Root and tuber vegetables:

Pre-Planting and Pre-Crop Emergence

To control weeds in seed beds before sowing, or post-sowing pre-crop emergence, apply as a blanket spray with this product using boom spray equipment or handheld sprayers.

Post-Emergence Inter-Row Weed Control

Use shielded nozzles for rapid control of weeds in inter-row spaces of row crops, after crop seedlings have emerged, or when transplanted crops are established. Direct the spray so that it does not touch the crop.

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| Resistance Warning: | <p>RESISTANT WEEDS WARNING GROUP 22 HERBICIDE</p> <p>REGLONE Non-Residual Herbicide is a member of the bipyridyl group of herbicides. The product has the inhibitors of photo-synthesis at photosystem I mode of action. For weed resistance management, the product is a Group 22 herbicide.</p> |
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| | <p>Some naturally occurring weed biotypes resistant to the product and other Group 22 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 this product or other Group 22 herbicides.</p> <p>Since the occurrence of resistant weeds is difficult to detect prior to use, Syngenta Australia Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant weeds.</p> |
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| Precautions: | <p>RE-ENTRY PERIOD: DO NOT allow entry to treated areas until the spray has dried unless using an enclosed cab or wearing cotton overalls and gloves. Workers performing scouting and irrigation activities must comply with the re-entry periods specified below.</p> <table border="1"> <thead> <tr> <th rowspan="2">Rate</th> <th colspan="2">Re-entry Period (Days)</th> </tr> <tr> <th>Scouting</th> <th>Irrigation</th> </tr> </thead> <tbody> <tr> <td>Up to 700 mL/ha</td> <td>0</td> <td>0</td> </tr> <tr> <td>Up to 1.4 L/ha</td> <td>0</td> <td>0</td> </tr> <tr> <td>Up to 2.8 L/ha</td> <td>1</td> <td>7</td> </tr> <tr> <td>Up to 4 L/ha</td> <td>4</td> <td>9</td> </tr> </tbody> </table> | Rate | Re-entry Period (Days) | | Scouting | Irrigation | Up to 700 mL/ha | 0 | 0 | Up to 1.4 L/ha | 0 | 0 | Up to 2.8 L/ha | 1 | 7 | Up to 4 L/ha | 4 | 9 |
|-----------------|--|------------|------------------------|--|----------|------------|-----------------|---|---|----------------|---|---|----------------|---|---|--------------|---|---|
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| | Scouting | Irrigation | | | | | | | | | | | | | | | | |
| Up to 700 mL/ha | 0 | 0 | | | | | | | | | | | | | | | | |
| Up to 1.4 L/ha | 0 | 0 | | | | | | | | | | | | | | | | |
| Up to 2.8 L/ha | 1 | 7 | | | | | | | | | | | | | | | | |
| Up to 4 L/ha | 4 | 9 | | | | | | | | | | | | | | | | |

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| Protection Statements: | <p>PROTECTION OF LIVESTOCK Domestic pets and poultry - keep away from treated areas.</p> <p>PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers.</p> <p>Toxic to birds. However, the use of this product as directed is not expected to have adverse effects on birds.</p> <p>Toxic to beneficial foliar arthropods. Not compatible with integrated pest management (IPM) programs utilising beneficial foliar arthropods. Minimise spray drift to reduce harmful effects on beneficial foliar arthropods in non-crop areas.</p> |
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| Storage and Disposal: | <p>Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight.</p> <p>Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.</p> |
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| Safety Directions: | <p>Very dangerous, particularly the concentrate. Do not swallow. The product, particularly the concentrate, can kill if swallowed, absorbed through the eyes or absorbed by skin contact. The liquid can cause burns particularly to the eyes. Will irritate the nose, throat and skin. When handling, do not touch or rub eyes, nose or mouth with hand. Avoid contact with eyes and skin, open wounds and clothing. Protect eyes while using.</p> <p>If clothing becomes contaminated with product or with wet spray remove clothing immediately. Do not inhale spray mist. Do not allow children to play with containers or any equipment that is used.</p> <p>When connecting, disconnecting and cleaning equipment wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat, impervious footwear, elbow-length chemical resistant gloves and a full face respirator with canister specified for paraquat/diquat OR half face-piece respirator with canister specified for paraquat/diquat and face shield or goggles.</p> |
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| | <p>When applying by hand wand wear cotton overalls, over normal clothing, buttoned to the neck and wrist and a washable hat, impervious footwear, elbow-length chemical resistant gloves and a full face piece respirator with a canister specified for paraquat/diquat.</p> <p>After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves, face shield or goggles, respirator (and if rubber wash with detergent and warm water), clothing and footwear.</p> |
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| First Aid Instructions: | If poisoning occurs, get to a doctor or hospital quickly. If sprayed on skin, wash thoroughly. If sprayed in mouth, rinse mouth with water. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor. |
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| First Aid Warnings: | |
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**DIRECTIONS FOR USE
PRE-HARVEST CROP DESICCATION**

| Crop | States | Rate Δ | Critical Comments |
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| Poppies | Tas only | 3- 4 L/ha Δ | Spray after the poppies have reached the stripy capsule stage. Helps overcome slow and uneven ripening and weed problems at harvest. |

GENERAL WEED CONTROL

| Crop | Weeds | States | Rate Δ | Critical Comments | |
|---|---|----------------------|--|---|---|
| Aquatic areas: Farm dams and artificial water bodies | Duck Weeds, Red Azolla, Water Hyacinth, Salvinia, Marsilea, Water Lilies, Water Lettuce | All states | DO NOT apply to water bodies from which the product may contaminate natural aquatic areas. DO NOT use treated water for human consumption, livestock watering or irrigation purposes for 10 days after application. | | |
| | | | 5 to 10 L/ha | Apply as an overall spray wetting foliage thoroughly. Clear water is necessary for best results as suspended soil particles interfere with herbicidal action. Use the higher rate for heavy infestations or for deep or dirty water. A repeat application 7 to 14 days later may be necessary for control of dense infestations. Oxygen depletion of decaying weeds may occur, therefore not more than ¼ of the area should be treated at once to ensure adequate oxygen supply for fish. | |
| | | | 400 mL/ha plus 150 mL Agral® /100 L water | Small areas: Spray to wet weeds thoroughly. About 1 mL of product should be sufficient to treat about 1 m ² . | |
| | Cattail Pond Weeds | 5 L/ megalitre water | Apply by injection below the surface or as a surface spray. | | |
| Asparagus | Broadleaf weeds | All states | 1.4 L/ha plus 800 mL Agral in 400 L water | Apply to control seedling weeds before spears have emerged. | |
| Hops | Annual broadleaf and grass weeds | Vic, Tas only | 700 mL to 1.4 L/ha Δ may be mixed with 1.1 kg Gesatop® Granules | Apply as a directed inter-row spray prior to crop emerging from winter dormancy, using a minimum of 250 L/ha spray volume to ensure good and even coverage of weeds. | |
| Infested Areas | Cotton Thistle (<i>Onopordum acanthium</i>) | Tas only | 300 mL/ha plus 150 mL Agral in 100 L water | Spot spray at the rosette stage before the centre shoot is 15 cm tall. The spray should be applied to give complete wetting of the leaf surface. DO NOT use a lower rate or treat at a later growth stage. | |
| | Saffron Thistle | All states | 2.8 L/ha plus 1 L Agral in 200 L water | Apply as an overall treatment to prevent seeding. | |
| Lucerne | Capeweed and <i>Erodium</i> spp. | All states | 350 mL/ha Δ in 200 L water | Early autumn application | Heavy grazing is necessary to reduce Lucerne to 2 cm in height before spraying. |
| | | | 700 mL/ha Δ in 200 L water | Late winter application | |

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| Oil Seed Poppies | Weed control | Tas only | 300 mL to 1.4 L/ha | Use in accordance with recommendations made by Department of Primary Industries or the poppy contracting company. DO NOT add Agral or any other wetting agent to the spray solution. | |
| Pasture Renovation and establishment | Capeweed and <i>Erodium</i> spp. (Storksbill) | All states | 750 mL to 940 mL/ha plus Agral in a minimum of 100 L water | Apply by boom spray as an overall spray on 'run-down' pasture after heavy grazing. Pasture should not be greater than 4 cm long when sprayed. Grazing should be carried out during previous spring, summer and early autumn. Where Capeweed is in the very young seedling stage (2 or 3 true leaves only) rates may be reduced to 350 mL/ha. Where Capeweed infestation is high, oversowing with new pasture seed by direct drilling is advisable. Direct drill 3 to 7 days after spraying using a pasture mix suitable for the district. | |
| Berries and other small fruit (except grapes) | Broadleaf weeds | All states | 1.4 L/ha ^Δ | Seedling weeds | Apply as a blanket spray prior to crop emergence. Once crops have emerged, or seedlings have been transplanted, apply as a shielded spray between crop rows. Do not allow spray to contact any part of the crop. |
| Broccoli, head cabbages, cauliflower and Chinese cabbage (type Pe-tsai) | | | | | |
| Bulb onions | | | | | |
| Fruiting Vegetables: other than cucurbits | | | | | |
| Cucumbers | | | | | |
| Leafy vegetables | | | | | |
| Legume vegetables | | | | | |
| Root and tuber vegetables | | | | | |
| Wheat, Oats | Capeweed | Qld, NSW, Vic, Tas, SA only | 550 mL/ha in 200 L of water | Small seedlings. Do not add wetting agent. Spray when the crop is between the 4 (wheat) or 3 (oats) leaf and early tillering stage. | |

NOTE: Use higher rate for dense or weedy crops.

^Δ WETTING AGENT: Add Agral at the rate of 200 mL/100 L or BS1000* at 160 mL/100 L of prepared spray unless otherwise specified.

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