



syngenta

Reg. No. L1115 Act No. 36 of 1947

An aqueous solution contact herbicide  
for desiccation of crops as indicated.

GROUP 22 HERBICIDE

**Active ingredients:**  
diquat ion (bipyridyl)..... 200 g/l  
(as dibromide salt)..... 373,5 g/l

Product names marked ® or ™, the ALLIANCE FRAME  
the SYNGENTA Logo and the PURPOSE ICON  
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**Hazard statements:** May be corrosive to metals. Harmful if swallowed. Toxic if inhaled. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long-lasting effects.

**Precautionary statements:** Keep out of reach of children. **Prevention:** Do not breathe mist or vapours. Wash skin thoroughly after handling. **Response:** If inhaled, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor. Get medical advice/attention if you feel unwell. Collect spillage. **Storage:** Store in a well-ventilated place. Keep container tightly closed. Store locked-up.

**DANGER**

**EMERGENCY TEL NO.:**  
**+27 82 446 8946 (Griffon)**

UN 1760

Registration holder  
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## 1. WARNINGS:

**Hazard statements:** May be corrosive to metals. Harmful if swallowed. Toxic if inhaled. May cause respiratory irritation. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long-lasting effects.

**Withholding periods:** Minimum number of days before last application and harvest.

**ALFALFA**..... **3 days**  
**CANOLA**..... **7 days**  
**CLOVER**..... **3 days**  
**SUGARCANE** (feeding and grazing)..... **21 days**

**DOMESTIC USE** (excluding drinking)..... **24 hours**  
**IRRIGATION**..... **no restriction**  
**SPRINKLER IRRIGATION**..... **7 days**

- Keep out of reach of children, uninformed persons and animals.
- Handle with care.
- Flammable.
- Harmful by inhalation, contact with skin and if swallowed.
- Toxic by contact with skin and if swallowed.
- Very toxic by inhalation.
- Irritating to eyes, respiratory system and skin.
- Risk of serious damage to eyes.
- May cause sensitisation by skin contact.
- **Toxic:** Danger of serious damage to health by prolonged exposure if swallowed.
- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **In case of poisoning:** Contact a doctor and present this label.
- **Re-entry:** Do not enter treated area within one (1) day after application unless wearing protective clothing.
- **Aerial application:** (Floating aquatic weeds, sunflowers and seedbed preparation only). Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over or allow spray drift to contaminate water or adjacent areas.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the weed against the remedy concerned, as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation and the environment, or harm to people or animal or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions, that could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

## 2. PRECAUTIONS:

**Precautionary statements:** Keep out of reach of children. **Prevention:** Do not breathe mist or vapours. Wash skin thoroughly after handling. **Response:** If inhaled, remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor. Get medical advice/attention if you feel unwell. Collect spillage. **Storage:** Store in a well-ventilated place. Keep container tightly closed. Store locked-up.

- Do not eat, drink, or smoke while handling this product.
- Avoid contamination of food, feed, drinking water and eating utensils.
- Do not use application equipment or spray pressures which result in the formation of a fine spray mist e.g., mist blowers, ULV applicators and other similar equipment.
- Do not use muddy water.
- With knapsack and hand-held sprayers, mix each one (1) part of **REGLONE** with at least 40 parts of water.
- Wear rubber gloves and a face shield when handling the concentrate. If you get it in your eyes, flush it out at once. If you get it on your skin, wash it off at once. If you spill it on your clothes, change and wash them. (see first aid).
- Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow

has slowed down to a drip. Thereafter, rinse the container three (3) times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsate to the contents of the spray tank before destroying the container in the prescribed manner.

- Wear rubber gloves and a face shield while spraying.
- Do not inhale the spray mist and avoid contact with the spray as much as you can. With exception of dedicated water weed control programs, avoid spray drift onto other crops, grazing, rivers or dams.
- Do not inhale the spray mist and avoid contact with the spray as much as you can.
- Avoid spray drift onto other crops, grazing rivers, or dams because the spray will damage green plant tissue.
- Do not use the empty container for any other purpose. Dispose empty containers in accordance with local regulatory authority recommended practices. Keep unused **REGLONE** in its container, tightly closed, away from food.
- Dispose of wash water where it will not contaminate crops, grazing, rivers, or dams.
- Regularly change and wash your work clothes.
- Wash yourself after spraying **REGLONE**.
- Avoid the use of water for a minimum of three (3) days after **REGLONE** was sprayed where the water body is a source of drinking water.
- Keep all unprotected persons out of operating areas or vicinity where there may be drift when **REGLONE** is being applied.

**Symptoms of human poisoning:** Epigastric discomfort and vomiting. General malaise and weakness. There may be irritation of mouth, pharynx and oesophagus with local burning. After 1 - 2 days, signs of kidney and possible liver damage will appear if appreciable quantities have been swallowed, and after 1 - 2 weeks there may be dyspnoea with pulmonary oedema leading to massive pulmonary fibrosis and death due to respiratory insufficiency. With very large doses there may be agitation and convulsions.

#### First Aid and Medical Treatment:

**OBTAIN IMMEDIATE MEDICAL ATTENTION:** Immediately take patient to hospital and present this label to the doctor.

#### No antidote is available.

- Give 1 ℓ suspension of Fuller's Earth (15%) or Bentonite (7%) or activated charcoal. Also give purgative e.g., Mannitol (20% solution).
- Continue with purging until fecal matter shows signs of the adsorbent. Blood dialysis or blood perfusion may be necessary.
- See booklet 'Diquat poisoning. A practical Guide to Diagnosis, First Aid and Hospital Treatment' ([www.syngenta.com/pqmedguide/](http://www.syngenta.com/pqmedguide/)). (Available from **REGLONE** distributors or contact **GRIFFON POISON CENTRE**, EMERGENCY TEL.: +27 82 446 8946).
- **Eye contact:** Immediately irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.

- **Skin contact:** Take off all contaminated clothing immediately. Wash skin immediately with water, followed by soap and water. Obtain medical attention. Contaminated clothing should be laundered before re-use.
- **Inhalation:** Remove patient from exposure, keep warm and at ease. Obtain medical attention.
- **Ingestion:** Immediately take person, this container and label to hospital for emergency medical treatment.

#### Note to doctor:

- Refer to the booklet 'Diquat Poisoning. A Practical Guide to Diagnosis, First Aid and Hospital Treatment' ([www.syngenta.com/pqmedguide/](http://www.syngenta.com/pqmedguide/)).
- Administer either activated charcoal (100 g for adults or 2 g/kg body weight in children), or Fuller's Earth (15% solution; 1 liter for adults or 15 ml/kg body weight in children).
- **NOTE:** The use of gastric lavage without administration of an adsorbent has not shown any clinical benefit.
- Do not use supplemental oxygen.
- Eye splashes from concentrated material should be treated by an eye specialist after initial treatment.
- With the possibility of late onset corneal ulceration it is advised that patients with diquat eye injuries are reviewed by an eye specialist the day after first presentation.

#### 3. RELEVANT SUBSTANCES:

Chemical name	
diquat dibromide	
Classification	Concentration (% w/w)
Met. Corr. 1; H290 Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335 (Respiratory system) STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	≥ 30 - < 50
M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100	

#### 4. RESISTANCE MANAGEMENT:

**REGLONE** is a group 22 herbicide. Any weed population may contain individuals naturally resistant to **REGLONE** and other group 22 herbicides. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly and exclusively in programs. These resistant weeds may not be controlled by **REGLONE** or any other group 22 herbicides.

#### To delay herbicide resistance:

- Avoid exclusive repeated use of herbicides from the same herbicide group code. Alternate or tank mix with products from different herbicides group codes.

- Integrate other control methods (chemical, cultural, biological) into weed control programs.
- Situations of resistance of weeds against paraquat and glyphosate applications are known. These weed populations might be resistant against **REGLONE** too.

**For specific information on resistance management contact the registration holder of this product.**

## 5. APPLICATION:

### 5.1 Aerial Application

(Floating aquatic weeds, sunflowers and seedbed preparation only)

Aerial application of this product may only be done by a registered aerial application operator which comply with all local regulations, using a correctly calibrated, registered aircraft according to the instructions of SANS 10118 (Aerial Application of Agricultural Remedies). It is important to ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria are met:

a) Application parameters:

- **Volume:** A volume of 35 - 40 ℓ/ha is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy or be held responsible for any adverse effects if the product is applied aurally at a lower volume rate than recommended above.
- **Droplet coverage:** Droplet coverage of 35 - 40 droplets per cm<sup>2</sup> must be recovered at the target.
- **Droplet size:** A droplet spectrum with a VMD of 350 - 400 micron is recommended. Ensure that the production of fine droplets (less than 150 micron - high drift and evaporation potential) is restricted to a minimum.
- **Flying height:** The height of the spray boom should be maintained at 3 - 4 meters above the target. Do not spray when aircraft is in a climb, at the top, during a dive, or when banking.

b) Equipment:

- Use suitable atomizing equipment (hydraulic nozzles) that will produce the desired droplet size and coverage but which will ensure the minimum loss of product either through endodrift (within target field) or exodrift (outside target field).
- The operator must use a setup that will produce a droplet spectrum with the lowest possible relative span.
- All nozzles/atomizers should be positioned within the inner 60 - 75% of the wingspan to prevent droplets from entering the wingtip vortices.

c) Meteorological conditions:

- The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8°C. The addition of a suitable anti-evaporant is recommended if the VMD of the droplets is less than 200 - 250 microns.
- Stop spraying if the wind speed exceeds 15 km/h or reduces to below 5 km/h.

- Aerial application of this product must not be done under turbulent, unstable conditions during the heat of the day when rising thermals and downdraughts occur. Also note that the application of this product under temperature inversion conditions (spraying in or above the inversion layer) may lead to the following:

- Reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
- Damage to other sensitive crops and or non-target areas through the movement of the suspended spray cloud away from the target field.

- Avoid spray drift onto adjacent crops as green plant tissue will be damaged by the spray. The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavourable environmental conditions.
- Do not use in hand-held ultra-low volume controlled droplet applicators (CDA units) or in mist blowers.

**6. DIRECTIONS FOR USE:** Use only as indicated.

### 6.1 Compatibility

**REGLONE** is compatible with COMPLEMENT SUPER (L8169), DIURON 800 SC (L3200), DUAL GOLD (L5749), FALCON GOLD (L5750), GESAPAX 500 SC, GRAMOXONE (L1174), HARNESS (L3029), LASSO EC (L0977), MEDAL GOLD (L6369), METAGAN GOLD (L5748), PREEGLONE (L3304) and MIDSTREAM (L4532).

If **REGLONE** needs to be used in tank mix combinations with other herbicides, first mix small quantities of the chemicals in the same ratio in which they will be used, separately with water. Add these mixtures together while agitating and check for any signs of incompatibility e.g., flocculation, etc. In this instance, full cognizance must be taken of all WARNINGS, PRECAUTIONS and DIRECTIONS FOR USE mentioned on the labels of the products concerned.

### 6.2 Mixing Instructions

- Mix the required quantity of **REGLONE** with **clean** water in the spray tank.
- When **REGLONE** is used in a tank mixture with another herbicide(s) follow the MIXING INSTRUCTIONS on that label. Continuous agitation is essential when applying tank mixtures.

### 6.3 Application Rates

- Apply by ground sprayers or by knapsack sprayer.
- Use high-volume and high dosage rate for spraying dense crop canopies.
- Ensure thorough coverage of the weeds.
- Do not spray buds or green parts of any crop. **REGLONE** kills green tissue but does not harm brown mature bark.

### 6.4 Harvesting Aid and Halm Desiccation

Add COMPLEMENT SUPER at 100 ml/ha.

Crop	Rate (REGLONE/ha)
<b>ALFALFA</b> seed crop only Pre-harvest desiccation - broadcast application	1.752 ℓ - 2.350 ℓ/ha
<ul style="list-style-type: none"> <li>• <b>Ground application:</b> 50 - 200 ℓ/ha.</li> <li>• <b>Aerial application:</b> 30 - 40 ℓ/ha.</li> <li>• On thin stands of seed alfalfa use 1.175 ℓ/ha.</li> <li>• Desiccation is complete in 3 - 10 days.</li> <li>• Do not graze or feed treated forage to livestock.</li> <li>• Do not use seed from treated plants for food.</li> </ul>	
<b>CANOLA</b> Pre-harvest desiccation - broadcast application	1.175 ℓ - 2.350 ℓ/ha
<ul style="list-style-type: none"> <li>• <b>Ground application:</b> 50 - 200 ℓ/ha.</li> <li>• <b>Aerial application:</b> 30 - 40 ℓ/ha.</li> <li>• A maximum of one (1) application per season is allowed.</li> <li>• Harvest no later than 10 days after application.</li> </ul>	
<b>CLOVER</b> seed crop only Pre-harvest desiccation - broadcast application	1.752 ℓ - 2.350ℓ/ ha
<ul style="list-style-type: none"> <li>• <b>Ground application:</b> 50 - 200 ℓ/ha.</li> <li>• <b>Aerial application:</b> 30 - 40 ℓ/ha.</li> <li>• Desiccation is complete in 3 - 10 days.</li> <li>• Do not graze or feed treated forage to livestock.</li> <li>• Do not use seed from treated plants for food, feed, or oil purposes.</li> </ul>	
<b>POTATOES</b> Haulm killing for early harvesting	2.5 - 5 ℓ/ha
<ul style="list-style-type: none"> <li>• Apply in 500 - 1 000 ℓ water/ha.</li> <li>• Do not apply to potatoes under drought stress or if haulms show signs of wilting as tuber damage may occur.</li> <li>• Do not apply in overcast conditions.</li> </ul>	
<b>SUGARCANE</b> Pre-harvest desiccation	2 - 3 ℓ/ha
<ul style="list-style-type: none"> <li>• Apply in 100 ℓ water/ha.</li> <li>• Burn cane as soon as practical after treatment.</li> </ul>	
<b>SUNFLOWERS</b> For the desiccation of sunflowers for earlier harvesting	1.5 ℓ/ha
<ul style="list-style-type: none"> <li>• <b>Aerial application:</b> Apply in 35 - 40 ℓ water/ha when the moisture of the sunflower is between 30 - 40% or when the peripheral bracts on the sunflower heads are brown and becoming brittle.</li> </ul>	

**NOTE:** Avoid spray drift onto adjacent crops as green plant tissue will be damaged by the spray.

## 7. AQUATIC WEED CONTROL IN DAMS:

**REGLONE** can be used in fish-bearing dams for the control of aquatic weeds at the recommended rate below.

**Important:** Before treating fish-bearing water consult your **REGLONE** distributor.

Weed	Dosage	Remarks
<b>Floating aquatic weeds</b> such as <i>Salvinia</i> and water hyacinth ( <i>Eichhornia crassipes</i> )	7.5 - 10 ℓ <b>REGLONE</b> plus 1.5 ℓ <b>COMPLEMENT SUPER</b> in 200 ℓ water/ha	<b>Aerial application:</b> Apply in 35 - 40 ℓ water/ha.
<b>Submerged aquatic weeds</b> <i>Potamogeton</i> spp. <i>Lagarosiphon</i> spp.	<b>Total dam treatment:</b> 50 ℓ <b>REGLONE</b> /ha dam surface area. (Depth of dam 1 m). Dilute <b>REGLONE</b> with an equal quantity of clean water before application.	Apply to inflow water via an intravenous medical drip apparatus at a drip rate of one (1) drop/second. Repeat application when necessary.
	<b>Spot Treatment:</b> 0.5 ℓ <b>REGLONE</b> /100 m <sup>2</sup>	Apply with a knapsack sprayer in 20 ℓ water/100 m <sup>2</sup> weed surface area. Do not apply to more than 25% of total dam surface area in a two (2) week period. Repeat application when necessary.

## WARNING:

- Do not use **REGLONE** if any conditions contributing to high algae populations exist in the dam. The death of these algae could cause a reduction in available oxygen in the water and possible fish mortalities. High nutrient levels, artificial feeding, low water levels, high water temperature and unnaturally high fish populations (i.e., caged fish) are such factors that could contribute to high algae populations.
- Only apply **REGLONE** to dams with clean water. Do not apply **REGLONE** to dams containing suspended clay particles or where vegetation in the dam is coated with clay or soil particles.
- Apply **REGLONE** with application equipment to supply a coarse droplet spectrum.

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