

AGROQUAT



Reg. No.: L 4607 Act /Wet No. 36 of/van 1947
 Namibia/Namibië Reg. No.: N-AR 0795 Act/Wet No. 36 of/van 1947

Herbicide in the form of a solution for the control of annual grasses and broadleaf weeds in crops as listed and for fire breaks. Inactivated on contact with the soil.

Onkruidodder in die vorm van 'n oplossing, vir die beheer van eenjarige grasse en breëblaaronkruid in gewasse soos aangedui en vir brandbane. Onaktief na aanraking met grond.

HRAC HERBICIDE GROUP CODE:	D	HRAC ONKRUIDDODER GROEP KODE:
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ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL:

paraquat ion (bipyridyl) / parakwat ioon (bipiridiel) 200 g/l

(as dichloride salt / as dichloriedsout 276 g/l)

Registration holder / Registrasiehouer:

Tsunami Plant Protection (Pty) Ltd
Trading as ARYSTA LifeScience South Africa (Pty) Ltd
 Co. Reg. No./Mpy. Reg. Nr.: 2004/020524/07
 7 Sunbury Office Park,
 Off Douglas Saunders Drive, La Lucia Ridge,
 South Africa, 4019
 Tel: 031 514 5600

Contents/Inhoud
(ℓ)

Batch No. / Lot Nr.:	
Date of manufacture: / Datum van vervaardiging:	

U.N. No. 3016



TOXIC
GIFLIG

READ THE LABEL IN DETAIL BEFORE OPENING THE CONTAINER. / LEES DIE ETIKET VOLLEDIG VOORDAT DIE HOUER OOPGEMAAK WORD.
For full particulars, see enclosed leaflet. / Vir volledige besonderhede, sien ingeslote pamflet.

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GIFTIG

WARNINGS:

- KEEP LIVESTOCK OUT OF TREATED AREA FOR 3 WEEKS.
- Handle with extreme care.
- Toxic by swallowing or inhalation.
- Moderate to severe irritant to skin and eyes.
- Store in original container, in a cool, dry place.
- Store under lock and key and out of reach of children, uninformed persons and animals.
- Store away from food, feeds, fertilizers, seed and drink water.
- **AGROQUAT** is highly toxic if swallowed, and can cause death.
- Never repack from this container.
- Toxic to wildlife.
- Re-entry: Do not enter treated area within 2 days after treatment unless wearing protective clothing.

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 climatic and storage conditions; quality of dilution water, incompatibility with other substances not indicated on the label and the occurrence of resistance of the weeds to 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, the performance of the remedy concerned due to failure of the user to follow the label instruction or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

PRECAUTIONS:

- Do not inhale fumes or spray mist.
- Avoid eye and skin contact.
- Wear protective overalls, rubber gloves, rubber boots and face mask or suitable respirator.
- Wash contaminated clothing daily.
- Wash with soap and water after accidental skin contact.
- Do not eat, drink, or smoke during application or before washing hands and face and change of clothing.
- Avoid spray drift onto crops, grazing, rivers or areas not under treatment.
- Spray drift may cause damage to neighbouring crops.

- Wash application equipment after use, using a wetting agent. Dispose of wash water in a safe manner and do not contaminate crops, grazing, rivers, dams, boreholes, fountains, etc.
- This applicator should not be used for applying chemicals other than herbicides.
- **Triple rinse** empty containers in the following manner: 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 times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the described manner.
- Destroy the empty container by perforation and flattening and dispose of it in a safe manner.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

SYMPTOMS OF HUMAN POISONING:

Inhalation of spray mist may cause nose bleeding and soreness of month and throat.

Early signs of paraquat poisoning, when ingested, are burning of the mouth and throat, gastrointestinal tract irritation, abdominal pain, loss of appetite, nausea, vomiting and diarrhea. Other symptoms include thirst, shortness of breath, rapid heart rate, kidney failure, lung sores and liver injury. In severe cases of poisoning diarrhoea follows and kidney and liver damage may develop 1 to 3 days after exposure. Lung damage can be observed after about 3 days and may lead to death.

FIRST AID TREATMENT:

Remove the patient from the exposure area and keep the patient warm and at rest.

Eye contact: Flush eyes with lukewarm, gently flowing water for at least 20 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. If irritation, redness or burning sensations develop, get medical attention immediately.

Skin contact: Remove contaminated clothing, shoes and leather goods immediately. Wash contaminated areas with soap and water. Paraquat can be absorbed through damaged skin. Emergency personnel should wear gloves and avoid contamination. If irritation persists, get medical attention immediately.

Inhalation: Get medical attention immediately. **Do not administer supplementary oxygen.**

Ingestion: **Do not induce vomiting.** Wash mouth with water and give the patient water to drink. **Seek medical advice immediately.**

NOTE TO PHYSICIAN:

Rapid treatment is essential. Wash out stomach and test urine and gastric aspirate, if clear, for presence of paraquat. Give the patient up to 1 litre of 15 % aqueous suspension of Fuller's Earth, orally or via gastric tube, together with suitable purgative (200 ml of aqueous solution of mannitol). Repeat administration of absorbent plus purgative until absorbent is seen in stools. This should normally take between 4 to 6 hours after start of treatment.

Do not administer supplement oxygen.

RESISTANCE WARNING:

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

To delay herbicide resistance:

- Avoid exclusive repeated use of herbicides from the same herbicide group code. Alternate or tank mix with products from different herbicide group codes,
- Integrate other control methods (chemical, cultural, biological) into weed control programmes.

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

DIRECTIONS FOR USE: Use only as directed.

- Mix the required amount of **AGROQUAT** with clean water in the spray tank.
- Add non-ionic wetting agent for best results at 3 times the rate advised on the label for fungicides.
- Apply by ground sprayers in 200 to 500 litres water per hectare.
- Use the higher spray volume and higher dosage rate for spraying dense weed growth.
- Ensure thorough wetting of the weeds.
- Do not spray buds or green parts of any crop.
- **AGROQUAT** kills green tissue but does not harm mature bark.
- Paraquat is inactivated rapidly on contact with the soil and has therefore no residual action.

CROP:	DOSAGE RATE:	REMARKS:
VINEYARDS	2,5 to 5 ℓ/ha	Apply overall when weeds are 10 to 15 cm high before bud burst of the vines. Subsequently as a directed spray.
DECIDUOUS FRUIT	2,5 to 5 ℓ/ha	Spray as necessary from spring onwards. Pome fruit only: Mix with simazine for residual effect.
CITRUS, AVOCADOS, PECANS & PAPAYAS	1,25 to 5 ℓ/ha	In citrus only, AGROQUAT can be mixed with a suitable residual herbicide.
BANANAS, TEA & COFFEE	1,25 to 2,5 ℓ/ha	Apply through a low pressure floodjet nozzle.
SUGAR CANE	1,5 to 3 ℓ/ha	Directed post-emergence in plant and ratoon cane. Should the spray come into contact with green cane leaves scorching will occur but this is only a temporary effect. Other suitable herbicides may be added for residual effect.
LUCERNE (over 6 months old)	2,5 to 5,5 ℓ/ha	Apply just before dormancy breaks or after cutting before regrowth of lucerne occurs.
VEGETABLES (grown in rows)	1,25 to 2,5 ℓ/ha	Use a knapsack sprayer with suitable shield to protect all parts of the crops from spray mist.
ALL CROPS Stale seedbed method	1,25 to 2,0 ℓ/ha	Prepare seedbed with fertilizer, irrigate and let the weeds come up to cover the surface. Spray and sow within 3 days without reworking the seedbed. This method is especially useful for crops for which only a few herbicides have been registered e.g. lettuce, chicory, cucurbits. These may be sown a few days before spraying.
MINIMUM CULTIVATION	1,5 to 4 ℓ/ha	Apply before or just after planting annual crops. May be mixed with a corresponding residual herbicide.

CROP:	DOSAGE RATE:	REMARKS:
POTATOES (haulm destruction)	2,5 to 5 ℓ/ha	Use 200 to 500 litres water per hectare. Do not apply if haulms show signs of wilting as tuber damage may occur. Spray only when at least 5 hours of intensive sunshine are expected to follow.
INDUSTRIAL AREAS		Use 500 to 1 000 litres spray mixture per hectare depending on density of vegetation.
Young weeds	2,5 ℓ/ha	
Mature weeds	5 ℓ/ha	
FIRE BREAKS	2,5 to 3,75 ℓ/ha	Two months before the onset of the fire season: Spray a 1 to 2 metre wide band (the sparser the vegetation, the wider the band) on both sides of a 5 to 12 metre wide untreated strip (or about 10 metre from a road or canal). Burn the sprayed bands 3 weeks later, while the unsprayed areas are still green and unburnable. The strip in between can be burned relatively safely after the first frost or drought when the vegetation in the strip has dried out.
AFFORESTATION	2,5 to 3,75 ℓ/ha	Spray around young trees with a shield to protect the plant.

WEEDS CONTROLLED:

All above ground green tissue of actively growing plants is killed off by **AGROQUAT**.

Annual weeds are well controlled.

Weeds with reserves stored underground recover eg. sedges, bulbs, Karoo daisy, oxalis, kikuyu, etc.