

RESTRICTED USE AGRICULTURAL REMEDY: THIS REMEDY IS RESTRICTED DUE TO ACUTE TOXICITY. THIS REMEDY MAY ONLY BE SOLD TO AND USED BY A REGISTERED PEST CONTROL OPERATOR, OR BY SOMEONE UNDER THE SUPERVISION OF A REGISTERED PEST CONTROL OPERATOR, AND ONLY FOR THOSE USES COVERED BY THE PEST CONTROL OPERATOR'S SCOPE OF REGISTRATION, AND ONLY AS DIRECTED ON THIS LABEL.

ADAMA PARAQUAT


Reg. no. L11184 Act/Wet 36 of/van 1947
W1301604

READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS



GROUP	22	HERBICIDE
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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.	Onkruiddoder 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.
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 <p>DANGER</p>	<p>Hazard statements</p> <p>Harmful if swallowed. Toxic in contact with skin. Fatal if inhaled. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. Causes damage to organs. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.</p> <p>Precautionary statements</p> <p>Store locked up. Get medical help.</p>
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ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL

Paraquat ion (bypiridyl).....	200 g/LParakwat ion (bipirdiel)
(as dichloride salt)	276 g/L(as dichloriedsout)

NET VOLUME/NETTO VOLUME

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REGISTRATION HOLDER/REGISTRASIEHOUER

ADAMA South Africa (Pty) Ltd; Reg. no. 1992/001741/07
Ground Floor, Simeka House
The Vineyard Office Estate, 99 Jip de Jager Drive
Bellville, 7530
T: +27 21 982 1460, infocpt@adama.com

IN CASE OF POISONING, CALL THE FOLLOWING NUMBERS:

Griffon Poison Information Centre:
+27 82 446 8946 or
Tygerberg Poison Information Centre:
+27 861 555 777

EMERGENCY NUMBER:

SPILL TECH: +27 86 100 6366 or +27 83 253 6618

UN no.:3082

Batch number
Date of Manufacture
Expiry date

Lotnommer
Datum van Vervaardiging
Vervaldatum



GHS information

WARNINGS

- Harmful if swallowed.
- Toxic in contact with skin.
- Fatal if inhaled.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause an allergic skin reaction.
- May cause drowsiness or dizziness
- Causes damage to organs.
- Very toxic to aquatic life.
- Very toxic to aquatic life with long lasting effects.

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.
- **ADAMA PARAQUAT** 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 guarantee that it will be effective under all conditions. The activity and effect thereof may be affected by factors such as climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the weeds against the remedy 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 humans or animals or for lack of performance of the remedy concerned due to failure by the user to follow the label instructions, 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

- Avoid breathing (do not breath) dust/fume/gas/mist/vapors/spray.
 - Avoid release to the environment.
 - Wash hands and body thoroughly after handling. Do not touch eyes.
 - Do not eat, drink or smoke when using this product.
 - Use only outdoors or in a well-ventilated area.
 - Contaminated work clothing should not be allowed out of the workplace.
 - Avoid release to the environment.
 - Wear protective gloves.
 - [In case of inadequate ventilation] wear respiratory protection.
 - IF SWALLOWED: Rinse mouth. Get medical help.
 - IF ON SKIN: Wash with plenty of water. Specific treatment (see first aid instruction on this label). Get emergency medical help immediately.
 - If skin irritation or rash occurs: Get medical help.
 - Take off contaminated clothing immediately and wash it before reuse.
 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Specific treatment (see first aid instruction on this label). Get emergency medical help immediately.
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - If eye irritation persists: Get medical help.
 - Collect spillage.
 - Store locked up in a well-ventilated place. Keep container tightly closed.
 - Dispose of contents/container in accordance with local/regional/national/international Regulations.
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- 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 other 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 empty container *three times in succession* with one quarter on the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of *via* an approved collector or recycler (www.croplife.co.za).
- Do not bury or donate the container to any other parties that may use it as a container for food or beverages.
- Prevent contamination of food, feeds, drinking water and eating utensils.

RELEVANT SUBSTANCES

Chemical name	w/w %	CAS no.
Paraquat dichloride	10 – 30%	1910-42-5
Geronol MP900-W	10 – 30%	85117-50-6 9016-45-9
Emetic PP796	<10%	27277-00-5
Dye	<10%	3844-45-9

FIRST AID

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

Take the container label or product name with you when seeking medical attention.

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. **ADAMA 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 **ADAMA 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

Symptoms of human poisoning

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

Early signs of **ADAMA 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.

NOTICE TO THE USER: This agricultural remedy is to be used only in according to the directions of this label. It is an offense under the Act to use this product inconsistent with the directions on the label.

RESISTANCE WARNING

ADAMA PARAQUAT is a group code 22 herbicide. Any weed population may contain individuals naturally resistant to **ADAMA PARAQUAT** and other group code 22 herbicides. If these herbicides are used exclusively and repeatedly, the resistant weeds may eventually dominate the population. These resistant weeds will probably not be controlled by **ADAMA PARAQUAT** or any group code 22 herbicides.

To delay herbicide resistance:

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

For more information regarding resistance management contact the registration holder of this product.

MODE OF ACTION

22: PS I electron diversions

RESTRICTED USES

Use only as directed.

- Mix the required amount of **ADAMA PARAQUAT** 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 litre 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.
- **ADAMA PARAQUAT** kills green tissue but does not harm mature bark.
- **ADAMA PARAQUAT** is inactivated rapidly on contact with the soil and has therefore no residual action.

APPLIATION TABLE

CROP	DOSAGE RATE (L/ha)	REMARKS
Vineyards	2.5 L to 5 L	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	Spray as necessary from spring onwards. Pome fruit only: Mix with simazine for residual effect.
Citrus, avacados, pecans and papayas	1.25 to 5 L	In citrus only, ADAMA PARAQUAT can be mixed with a suitable residual herbicide.
Bananas, tea and coffee	1.25 to 5 L	Apply through a low pressure floodjet nozzle.
Sugar cane	1.5 to 3 L	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)	2.5 to 5.5 L	Apply just before dormancy breaks or after cutting before regrowth of lucerne occurs.
Vegetables (grown in rows)	1.25 to 2.5 L	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	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	Apply before or just after planting annual crops. May be mixed with a corresponding residual herbicide.
Potatoes (haulm destruction)	2.5 to 5 L	Use 200 to 500 litre 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 Young weeds Mature weeds	 2.5 L 5.0 L	Use 500 to 1 000 litre spray mixture per hectare depending on density of vegetation.
Fire breaks	2.5 to 3.75 L	Two months before the onset of the fire season:

CROP	DOSAGE RATE (L/ha)	REMARKS
		<p>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).</p> <p>Burn the sprayed bands 3 weeks later, while the unsprayed areas are still green and unburnable.</p> <p>The strip in between can be burned relatively safely after the first frost or drought when the vegetation in the strip has dried out</p>
Afforestation	2.5 to 3.75 L	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 **ADAMA PARAQUAT**.

Annual weeds are well controlled.

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