

# ADAMA QUAT


Reg no L 11052 Wet / Act 36 / 1947  
N-AR 2166



**READ ATTACHED PACKAGED LEAFLET BEFORE USE  
KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

<b>GROUP</b>	<b>D</b>	<b>HERBICIDE</b>
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<p>A soluble concentrate herbicide for the control of annual grasses and broadleaf weeds in crops as listed and for fire breaks. Inactivated on contact with the soil.</p>	<p>'n Oplosbare konsentraat onkruidodder vir die beheer van eenjarige grasse en breëblaaronkruid in gewasse soos aangedui en vir brandbane. Geïnaktiveer na aanraking met grond.</p>
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 <p><b>DANGER</b></p>	<p><b>Hazard statements</b>          May be corrosive to metals.          Toxic if swallowed.          Harmful in contact with skin.          Causes skin irritation.          Causes serious eye irritation.          Fatal if inhaled.          May cause respiratory irritation.          Causes damage to organs through prolonged or repeated exposure.          Very toxic to aquatic life with long lasting effects.</p> <p><b>Precautionary statements</b>          Wear protective gloves; protective clothing; eye protection and face protection.          Avoid release to the environment if this is not the intended use and collect spillage.</p>
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**ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL**

Paraquat ion (bipyridyl) .....	200 g/L	.....Parakwatoon (bipiridiel)
(as dichloride)	276 g/L	(as dichloried)

**NET VOLUME/NETTO VOLUME**

..... L

**REGISTRATION HOLDER/REGISTRASIEHOUER**

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UN no:3016

**CONTACT IN EMERGENCY/KONTAK IN NOOD**

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

Batch number	.....	Lotnommer
Date of manufacture	.....	Datum van vervaardiging
Expiry date	.....	Vervaldatum

## WARNINGS

- May be corrosive to metals.
- Toxic if swallowed.
- Harmful in contact with skin.
- Causes skin irritation.
- Causes serious eye irritation.
- Fatal if inhaled.
- May cause respiratory irritation.
- Causes damage to organs through prolonged or repeated exposure.
- Very toxic to aquatic life with long lasting effects.

- KEEP LIVESTOCK OUT OF TREATED AREA FOR 3 WEEKS.
- Handle with extreme care.
- 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 QUAT** 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 tested extensively 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, the environment or harm to man 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 which could not have been foreseen in terms of the registration. Consult the supplier or registration holder in the event of any uncertainty.**

## PRECAUTIONS

- Do not breathe dust/fume/gas/mist/vapors/spray.
- Avoid release to the environment if this is not the intended use and collect spillage.

- Use only outdoors or in a well-ventilated area.
- Wear protective gloves, protective clothing, respiratory protection and eye and face protection.
- Wear respiratory protection.
- Do not eat, drink or smoke when using this product.
- Call a POISON CONTROL CENTRE or doctor if you feel unwell.
- Wash hands, forearms and face thoroughly after handling. Do not touch eyes.
- IF SWALLOWED: Immediately call a POISON CONTROL CENTER or doctor. Rinse mouth. Specific treatment (see supplemental first aid instruction on this label).
- IF ON SKIN: Wash with plenty of water. Specific treatment (see supplemental first aid instruction on this label). Get medical help.
- Take off contaminated clothing and wash it before reuse.
- If skin irritation occurs: Get medical help.
- 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.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing. Specific treatment is urgent (see supplemental first aid instruction on this label). Immediately call a POISON CONTROL CENTER or doctor.
- Store locked up in a well-ventilated place. Keep container tightly closed.
- Keep only in original packaging.
- Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

- Prevent spray drift onto other crops, grazing, rivers, dams and any area not under treatment. Prevent contamination of food, feeds, drinking water and eating utensils. Wash equipment after use, using a wetting agent.
- Dispose of wash water in a safe manner.

**IMPORTANT:** Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container *three times* in succession with one quarter of 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](http://www.croplife.co.za)).

Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.

## RELEVANT SUBSTANCES

Chemical name	w/w %	CAS no.
Paraquat Dichloride	>60%	1910-42-5
Lutensol XL70	<10%	–

## 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. 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.**

## TOXICOLOGICAL INFORMATION

### 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 supplementary oxygen.**

### Symptoms of human poisoning

Discomfort/pain in the upper abdomen, burning sensation in upper gastro-intestinal tract, weakness, nausea, vomiting. At higher doses, other toxic effects include thirst, shortness of breath, rapid heart rate, renal failure, lung damage, liver injury, convulsions and eventually death.

## RESISTANCE WARNING

**ADAMA QUAT** is a group code D (bipyridyl) herbicide. Any weed population may contain individual weeds naturally resistant to **ADAMA QUAT** and other group code D herbicides. Resistance of *Lolium rigidum*, *Conyza bonariensis* and *Plantago lanceolata* to the active ingredient of paraquat has been observed in South Africa. If a paraquat treatment has been ineffective in the control of the above-mentioned weeds, do not re-treat with a herbicide containing the same active-ingredient. Resistant individuals can eventually dominate the weed population if these herbicides

are used repeatedly. Resistant weeds may not be controlled by **ADAMA QUAT** or any other group code D herbicides.

In order to delay herbicide resistance:

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

For more information on resistance management, contact the registration holder of this product

## MODE OF ACTION

D: PS I electron diversion.

## DIRECTIONS FOR USE

**Use only as directed.**

Mix the required amount of **ADAMA QUAT** with clean water in a spray tank. Add non-ionic wetting agent for best results at three times the rate advised on the label for fungicides. Apply by ground sprayer in 200 to 500 L water. Use a high volume and high dosage rate for spraying dense weed growth. Ensure good weed cover. Do not spray buds or green parts of any crop. **ADAMA QUAT** kills green tissue but does not harm mature bark. It is inactivated rapidly on contact with the soil and has therefore no residual action.

## APPLICATION RATES

CROP	DOSAGE L/ha	REMARKS
<b>Afforestation</b>	2.5 – 3.75 L	Spray around young trees with a special appliance.
<b>Bananas, tea &amp; coffee</b>	1.25 – 5.0 L	Apply through a low pressure floodjet nozzle.
<b>Citrus, avocados, pecans, papayas, etc.</b>	1.25 – 5.0 L	In citrus only, <b>ADAMA QUAT</b> can be mixed with a suitable residual herbicide.
<b>Deciduous fruit</b>	2.5 – 5.0 L	Spray as necessary from Spring onwards. <b>Pome fruit only:</b> Mix with simazine for residual effect.
<b>Fire break</b>	2.5 – 3.75 L	<b>Two months before the onset of the fire season:</b> Spray a 1 to 2 m wide band (the sparser the vegetation, the wider the band) on both sides of a 5 to 12 m wide untreated strip (or about 10 m 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.
<b>Industrial areas</b>		

CROP	DOSAGE L/ha	REMARKS
Young weeds Mature weeds	2.5 L 5.0 L	Use 500 to 1000 L water/ha depending on density of vegetation.
<b>Lucerne</b> (> 6 months old)	2.5 – 5.5 L	Apply just before dormancy breaks or after cutting before regrowth of lucerne occurs.
<b>Minimum cultivation</b>	1.5 – 4.0 L	Apply before or just after planting annual crops. May be mixed with a corresponding residual herbicide.
<b>Potatoes</b> (haulm destruction)	2.5 – 5.0 L	Use 200 to 500 litres water/ha. Do not apply if haulms show signs of wilting as tuber damage may occur. Spray <b>ONLY</b> when at least 5 hours of intensive sunshine are expected to follow.
<b>Sugarcane</b>	1.5 –3.0 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.
<b>Vegetables</b> (grown in rows)	1.25 – 2.5 L	Use a knapsack sprayer with suitable shield to protect all parts of the crops from spray mist.
<b>All crops</b> Stale seedbed method	1.25 – 2.0 L	Prepare seedbed with fertilizer, irrigate and let the weeds emerge to cover the surface. Spray and sow within 3 days without reworking the seedbed. This method is especially useful for crops for which no other herbicide has yet been registered, e.g., lettuce, chickory and cucurbits. These crops may also be sown a few days before spraying.
<b>Vineyards</b>	2.5 – 5.0 L	Apply overall when weeds are 10 to 15 cm high before bud burst of the vines. Subsequently as a directed spray.

## WEEDS CONTROLLED

All above-ground green tissue of actively growing plants is killed off by **ADAMA QUAT**. Annual weeds are well controlled. Weeds with reserves stored underground, recover, e.g., sedges, bulbs, Gousblom, Oxalis, Kikuyu, etc.

## WAARSKUWINGS

- Mag invretend op metale wees.
- Giftig indien ingesluk.
- Skadelik in aanraking met vel.
- Verorsaak velirritasie.
- Verorsaak ernstige oogirritasie.
- Dodelik indien ingeasem.
- Mag lugwegirritasie veroorsaak.
- Verorsaak skade aan organe deur langdurige of herhaalde blootstelling.
- Baie giftig vir waterlewende organismes met langdurige gevolge.

- HOU LEWENDE HAWE WEG VAN BEHANDELDE GEBIED VIR DRIE WEKE.
- Hanteer uiters versigtig.
- Matige tot ernstige irritasie aan die vel en oë.
- Berg in die oorspronklike houer in 'n koel, droë plek.
- Berg agter slot en grendel en buite bereik van kinders, oningeligte persone en diere.
- Berg weg van voedsel, voer, kunsmis, saad en water te drink.
- **ADAMA QUAT** is baie giftig indien ingesluk, en kan die dood veroorsaak.
- Moet nooit van hierdie houer verpak.
- Giftig vir wild.
- **Herbetreding:** Moet nie behandelde gebied betree vir 2 dae na bespuiting nie, tensy beskermende klere gedra word.

**Alhoewel hierdie middel omvattend onder 'n groot verskeidenheid toestande getoets is, waarborg die registrasiehouer nie dat dit onder alle toestande doeltreffend sal wees nie. Die werking en doeltreffendheid daarvan kan beïnvloed word deur faktore soos abnormale grond, klimaats- en bergingstoestande, kwaliteit van die verdunningswater, verenigbaarheid met ander stowwe wat nie op die etiket aangedui word nie en die voorkoms van weerstand van die onkruid teen die betrokke middel sowel as die metode, tyd en akkuraatheid van toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei en die omgewing of nadelige invloede op mens of dier of vir 'n gebrek aan prestasie van die betrokke middel as gevolg van versuim van die gebruiker om etiketaanwysings na te kom, of as gevolg van die ontstaan van toestande wat nie kragtens die registrasie voorsien kon word nie. Raadpleeg die verskaffer in die geval van enige onsekerheid.**

## VOORSORGMAATREËLS

- Moet nie poeier/walm/gas/stuifsel/dampe/spuitstof inasem nie.
  - Vermoed vrystelling in die omgewing as dit nie die beoogde gebruik is nie en versamel stortsel.
  - Gebruik slegs buitenshuis of in 'n goed geventileerde area.
  - Dra beskermende handskoene/beskermende klere, oogbeskerming en gesigbeskerming.
  - Dra asemhalingsbeskerming.
  - Moet nie eet, drink of rook wanneer hierdie produk gebruik word nie.
  - Kontak 'n GIFSTOFBEHEERSENTRUM of dokter as jy ongesteld voel.
  - Was hande, voorarms en gesig deeglik na hantering. Moet nie aan oë raak nie.
  - INDIEN INGESLUK: Skakel onmiddellik 'n GIFSTOFBEHEERSENTRUM of dokter. Spoel mond uit. Spesifieke behandeling (sien aanvullende noodhulpinstruksie op hierdie etiket).
  - INDIEN OP VEL: Was met baie water. Spesifieke behandeling (sien aanvullende noodhulpinstruksie op hierdie etiket). Kry mediese hulp.
  - Trek alle besoedelde klere uit en was dit voor hergebruik.
  - Indien velirritasie ontstaan: Kry mediese hulp.
  - INDIEN IN OË: Spoel versigtig met water vir etlike minute. Verwyder kontaklense indien aanwesig en maklik om te verwyder. Hou aan met spoel.
  - Indien oogirritasie voortduur: Kry mediese hulp.
  - INDIEN INGEASEM: Neem slagpffer na vars lug en hou gemaklik vir asemhaling. Spesifieke behandeling is dringend (sien aanvullende noodhulpinstruksie op hierdie etiket). Skakel onmiddellik 'n GIFSTOFBEHEERSENTRUM of dokter.
  - Berg agter slot en grendel in 'n goedgeventileerde plek. Hou houer dig toe.
  - Hou slegs in oorspronklike verpakking.
  - Raak ontslae van houer/inhoud by 'n versamelingspunt vir gevaarhoudende afval, in ooreenstemming met plaaslik, streeks, nasionale en/of internasionale regulasie.
- Voorkom oorwaai van spuitnewel na ander gewasse, weiding, riviere, damme en enige ander gebied wat nie behandel word nie. Voorkom besoedeling van voedsel, voer, drinkwater en eetgerei. Was toestel na gebruik met 'n benattingsmiddel.
  - Raak ontslae van die spoelwater op 'n veilige manier.

**BELANGRIK:** Keer die leë houer oor die spuit of mengtenk om en dreineer vir minstens 30 sekondes nadat die vloei tot 'n gedrup verminder het. Spoel daarna die leë houer drie keer na mekaar met een kwart van die houervolume vars water en giet die spoelwater in die spuittenk of mengtenk oor. Kap gate in die drie keer gespoelde houer waarna dit aan 'n goedgekeurde versamelaar of verwerker oorhandig moet word ([www.croplife.co.za](http://www.croplife.co.za)). Moet nie die houer begrawe, verbrand of aan enige ander partye skenk wat dit as houer vir voedsel of drinkgoed mag gebruik nie.



## RELEVANTE STOWWE

Chemiese naam	w/w %	CAS no.
Parakwat dichloried	>60%	1910-42-5
Lutensol XL70	<10%	–

## NOODHULPBEHANDELING

Verwyder die pasiënt uit die blootstellingsarea en hou die pasiënt warm en rustig.

Neem die produkhouer of produknaam saam wanneer mediese hulp versoek word.

**Oogkontak:** Spoel oë met loutewarm, stadig vloeiende water vir ten minste 20 minute of totdat die produk verwyder word, terwyl die ooglid(-lede) oop gehou word. Wees versigtig om nie besoedelde water in die ongeaffekteerde oog of op die gesig te spoel nie. As irritasie, rooiheid of brandende sensasies ontwikkel, kry onmiddellik mediese hulp.

**Velkontak:** Verwyder besoedelde klere, skoene en leergoedere onmiddellik. Was besoedelde areas met seep en water. Parakwat kan deur beskadigde vel geabsorbeer word. Noodpersoneel moet handskoene dra en besoedeling vermy. As irritasie voortduur, kry onmiddellik mediese hulp.

**Inaseming:** Kry onmiddellik mediese hulp. **Moenie aanvullende suurstof toedien nie.**

**Indien ingesluk: Moenie braking induseer nie.** Was mond met water en gee die pasiënt water om te drink. Verkry onmiddellik mediese advies.

## TOKSIKOLOGIESE INLIGTING

### Nota aan geneesheer

Vinnige behandeling is noodsaaklik. Spoel die maag uit en toets urine en maaginhoud, as helder, vir teenwoordigheid van parakwat. Gee die pasiënt tot 1 liter van 15% waterige suspensie van Fuller's Earth, mondelings of deur 'n gastriese buis, saam met 'n geskikte purgeermiddel (200 ml van waterige oplossing van mannitol). Herhaal toediening van die absorbeer- en purgeermiddels totdat die absorbeermiddel waargeneem word in die stoelgang. Dit sal normaalweg 4 tot 6 ure neem na aanvang van behandeling.

**Moenie aanvullende suurstof toedien nie.**

### Simptome van menslike vergiftiging

Ongemak/pyn in die boonste gedeelte van die buik, brandende sensasie in die boonste gedeelte van die spysverteringskanaal, swakheid, naarheid, braking. Ander toksiese effekte by hoër dosisse sluit in dors, kortasem, vinnige hartklop, nierversaking, longskade, lewerbesering, stuiptrekkings en uiteindelik die dood.

## WEERSTANDSWAARSKUWING

**ADAMA QUAT** is 'n groepkode **D** (bipiridiel) onkruidodder. Enige bevolking onkruid kan sommige onkruid bevat wat natuurlik weerstandbiedend is teen **ADAMA QUAT** en ander groepkode **D** onkruidodders. Weerstand van *Lolium rigidum*, *Conyza bonariensis* en *Plantago lanceolata* teen die aktiewe bestanddeel van parakwatoon onkruidodders is waargeneem in Suid-Afrika. Indien 'n parakwatoon-behandeling ondoeltreffend is in die beheer van bogenoemde onkruid, moet dit nie weer behandel word met 'n onkruidodder wat dieselfde aktiewe bestanddeel bevat nie. Indien hierdie groepkode onkruidodders herhaaldelik toegedien word, kan die weerstandbiedende individue uiteindelik die bevolking oorheers. Hierdie weerstandbiedende onkruid sal waarskynlik nie deur **ADAMA QUAT** of enige ander groepkode **D** onkruidodder beheer word nie.

Ten einde weerstand teen onkruidodders te vertraag:

- Vermyn die uitsluitlike en herhaaldelike gebruik van onkruidodders behorende tot dieselfde groepkode.
- Wissel af met, of gebruik tenkmengsels van middels van verskillende onkruidoddergroepkodes.
- Integreer chemiese middels en verbouingspraktyke in onkruidbeheerprogramme.

Vir meer inligting oor weerstandsbestuur raadpleeg die registrasiehouer.

## MEGANISME VAN WERKING

D: FS I (fotosistiem I) elektron wegleiding.

## GEBRUIKSAANWYSINGS

**Gebruik slegs soos aangedui.**

Meng die aanbevole hoeveelheid **ADAMA QUAT** met skoon water in 'n tenk. Voeg 'n nie-ioniese benattingsmiddel vir die beste resultate teen drie keer die koers aangeraai om op die etiket vir swamdoders. Pas deur die grond spuit in 200 tot 500 L water. Gebruik 'n hoë volume en hoë dosis vir digte onkruidgroei bespuiting. Verseker goeie benutting van onkruid. Moet nie knoppe of groen dele van enige gewas bespuit nie. **ADAMA QUAT** vernietig groen weefsel, maar sal nie volgroeide boombas beskadig nie. Dit is geïnaktiveerde vinnig op kontak met die grond en het dus geen nawerking.

## TOEDIENINGSHOEVEELHEDE

GEWAS	DOSIS (L/HA)	OPMERKINGS
<b>Wingerde</b>	2.5 – 5.0 L	Dien as 'n algehele bespuiting toe wanneer onkruid 10 tot 15 cm hoog is, maar voor die wingerde bot. Dien later as 'n gerigte bespuiting toe.
<b>Sagte vrugte</b>	2.5 – 5.0 L	Bespuit soos nodig, vanaf die lente. <b>Alleenlik vir kernvrugte:</b> Meng met simasien vir nawerkende effek.



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GEWAS	DOSIS (L/HA)	OPMERKINGS
<b>Sitrus, avokado, pekanneute, papaja, ens.</b>	1.25 – 5.0 L	Alleenlik in sitrus kan <b>ADAMA QUAT</b> met 'n geskikte nawerkende onkruidodder gemeng word.
<b>Piesangs, tee en koffie</b>	1.25 – 5.0 L	Dien to met 'n laedruk-vloedstraalspuitkop.
<b>Suikerriet</b>	1.5 – 3.0 L	Gerigte naopkombespuiting in plant- en ratoen-suikerriet. As die spuitmiddel in kontak met die groen suikerrietblare sou kom, sal dit skroei, maar dit is slegs 'n tydelike effek. Ander geskikte onkruidodders mag vir nawerking bygevoeg word.
<b>Lusern</b> (ouer as ses maande)	2.5 – 5.5 L	Dien toe net voor die rusperiode verby is of na oes (sny) voordat hergroei plaasvind.
<b>Groente</b> in rye gekweek	1.25 – 2.5 L	Gebruik 'n rugsakspuit toegerus met 'n skerm, om alle dele van die gewas teen sproeinewel te beskerm.
<b>Alle gewasse</b> Ou saadbed-metode	1.25 – 2.0 L	Berei saadbed voor met kunsmis, besproei en laat die onkruid opkom en die grond bedek. Bespuit en saai binne 3 dae sonder om die saadbed te bewerk. Hierdie metode is veral geskik vir gewasse waarop nog geen onkruidodder geregistreer is nie, bv. slaai, sigorei en pampoengewasse. Hierdie gewasse mag ook 'n paar dae voor bespuiting gesaai word.
<b>Minimum bewerking</b>	1.5 – 4.0 L	Dien voor of net na plant van eenjarige gewasse toe. Mag met 'n toepaslike nawerkende onkruidodder gemeng word.
<b>Aartappels</b> (bogroeivernietiging)	2.5 – 5.0 L	Gebruik 200 tot 500 L water/ha. Moet nie toedien as bogroei tekens van verwelking toon nie, want knolbeskadiging mag dan voorkom. Spuit <b>ALLEENLIK</b> wanneer ten minste 5 ure skerp sonskyn verwag word.
<b>Industriële gebiede</b> Jong onkruid Volgroeide onkruid	2.5 L 5.0 L	Gebruik 500 tot 1000 L water/ha afhangend van die dightheid van die plantegroei.
<b>Voorbrande</b>	2.5 – 3.75 L	<b>Twee maande voordat die brandseisoen begin:</b> Bespuit 'n 1 tot 2 meter strook (hoe yler die gras, hoe breër die strook), weerskante van 'n 5 tot 12 m onbespuite baan (of omtrent 10 m vanaf 'n pad of



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GEWAS	DOSIS (L/HA)	OPMERKINGS
		kanaal). Brand die bespuite stroke 3 weke na spuit terwyl die onbespuite areas nog groen en onbrandbaar is. Die tussenbaan kan relatief veilig afgebrand word na die eerste ryp of droogte, nadat die plantegroei in die baan droog geword het.
<b>Bosaanplantings</b>	2.5 – 3.75 L	Spuit rondom jong bome met 'n spesiale apparaat.

### ONKRUIDE BEHEER

Alle begrondse groen weefsel van aktiefgroeinde plante word deur **ADAMA QUAT** gedood. Eenjarige onkruid word goed beheer. Onkruidsoorte wat reserwes ondergronds het, herstel, bv. uintjies, bolgewasse, gousblom, suring, kikoejoe, ens.