


ACETASTAR[®] 46 EC

Reg. no. L9255 Act/Wet 36 of/van 1947
N-AR 1394; W1301277

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

GROUP	4A & 3A	INSECTICIDE
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An emulsifiable concentrate systemic, contact and stomach insecticide and acaricide for the control of pests in crops as indicated.	'n Emulgeerbare konsentraat insek- en mytdoder met sistemiese, kontak- en maagwerking vir die beheer van insekte in die aangeduide gewasse
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 DANGER	<p>Hazard statements Harmful if swallowed. May be fatal if swallowed and enters airways. Causes serious eye damage. May cause drowsiness or dizziness. Suspected of causing cancer. Very toxic to aquatic life with long lasting effects. Flammable liquid and vapour.</p> <p>Precautionary statements Do not eat, drink or smoke when using this product. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.</p>
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ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL

Acetamiprid (neonicotinoids).....	16 g/LAsetamipried (neonikotinoïed)
bifenthrin (pyrethroid).....	30 g/Lbifentrien (piretroïed)

NET VOLUME/NETTO VOLUME

..... L

REGISTRATION HOLDER/REGISTRASIEHOUER
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UN no.:1993

EMERGENCY NUMBERS:

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

- Harmful if swallowed.
- May be fatal if swallowed and enters airways.
- Causes serious eye damage.
- May cause drowsiness or dizziness.
- Suspected of causing cancer.
- Very toxic to aquatic life with long lasting effects.
- Flammable liquid and vapour.

Withholding periods (minimum number of days between last application and harvest or grazing):

Cotton	28 days
Potatoes	21 days
Tomatoes	5 days

Export crops: The local maximum residue levels (MRLs) will not be exceeded if **ACETASTAR® 46 EC** is used according to the label instructions. However, ADAMA South Africa (Pty) Ltd cannot be held responsible if export MRLs are exceeded. The local export marketing bodies must be consulted regarding application timing, withholding periods and specific tolerances of countries where produce will be exported to.

- Handle with care.
- Store in a cool, dry place away from away from food, feedstuffs, seed, and fertilizers.
- **Re-entry:** Do not enter treated area until spray deposit has dried unless wearing protective clothing.
- **Safety to crops:** Under normal growing conditions, **ACETASTAR® 46 EC** is safe to all common cultivars as no noticeable phytotoxicity such as yield loss has been observed. Do not apply **ACETASTAR® 46 EC** to newly released cultivars, without first referring to the registration holder.

Although this remedy has been extensively tested under a variety of conditions the registration holder does not warrant that it will be effective under all conditions. The activity and efficacy of the product may be affected by factors such as abnormal climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the pest 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 humans or animals, or for lack of performance of the remedy concerned due to the 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 in the event of any uncertainty.

PRECAUTIONS

- Keep out of reach of children.
- Obtain, read and follow all safety instructions before reuse.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- Ground or bond container and receiving equipment and take action to prevent static discharge.
- Use explosion-proof electrical/ventilation/ lighting/other equipment and non-sparking tools
- Keep container tightly closed.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Avoid release to the environment.
- Wash face, hands and any exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves, protective clothing, eye protection and face protection.
- IF SWALLOWED: Get emergency medical help immediately.
- Rinse mouth.
- Do NOT induce vomiting.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- In case of fire: Use dry chemical, CO₂, water spray or alcohol-resistant foam to extinguish.
- Collect spillage.
- Store locked up in a well-ventilated place. Keep cool.
- Dispose of contents/container to an approved waste disposal plant.

- Avoid contact with skin and eyes.
- Remove contaminated clothing and wash daily.
- Prevent spray drift onto other crops, grazing, rivers, dams or areas not under treatment.
- 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).
- Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.

- Clean the applicator thoroughly after use and dispose of wash water where it will not contaminate crops, rivers or dams.
- Avoid contamination of food, feedstuffs, drinking water and eating utensils.

RELEVANT SUBSTANCES

Chemical name	w/w %	CAS no.
Hydrocarbons, C10, aromatics, >1% naphthalene	>60%	64742-94-5
Cyclohexanone	10 – 30%	108-94-1
Bifenthrin	<10%	82657-04-3
Calcium dodecylbenzenesulphonate	<10%	26264-06-2
Acetamiprid	<10%	135410-20-7
2-Ethylhexan-1-ol	<10%	104-76-7

FIRST AID

In case of accident or unwellness, seek medical advice immediately. Provide this SDS and label to medical personnel for treatment. Emergency personnel should wear protective clothing appropriate to the type and degree of contamination.

Immediately remove contaminated clothing and remove the affected person from the contamination area. Keep the person warm, calm and covered up. First Aid personnel should pay attention to their own safety.

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

Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Seek immediate medical attention/advice.

Skin contact: Remove all contaminated clothing and shoes. Wash the skin immediately with plenty of water for 15 to 20 minutes under the safety shower. Consult a physician if necessary.

Inhalation: Immediately remove the affected victim from exposure to an area with fresh air. If breathing is difficult have qualified personnel administer oxygen. If breathing has stopped, administer artificial respiration. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician.

Ingestion: Call a poison control center or medical practitioner immediately for treatment advice. If conscious, rinse mouth thoroughly with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomit, rinse mouth and administer more water. Get medical attention immediately if symptoms occur.

TOXICOLOGICAL INFORMATION

Antidotes

None known. Treat symptomatically.

Symptoms of human poisoning

None known.

NOTICE TO THE USER: This agricultural remedy is to be used only 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

For the purpose of resistance management, **ACETASTAR® 46 EC** is classified as an IRAC group code 4A/3A insecticide. Any insect population may contain individuals naturally resistant to **ACETASTAR® 46 EC** and other group code 4A/3A insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **ACETASTAR® 46 EC** or any other group code 4A/3A insecticide.

To delay insecticide resistance:

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

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

MODE OF ACTION

4A: Nicotinic acetylcholine receptor (NACHR) competitive modulars – Bind to the acetylcholine site on nAChRs, causing a range of symptoms from hyper-excitation to lethargy and paralysis. Acetylcholine is the major excitatory neurotransmitter in the insect central nervous system.

3A: Sodium channel modulators – Keep sodium channels open, causing hyperexcitation and, in some cases, nerve block. Sodium channels are involved in the propagation of action potentials along nerve axons.

USE RESTRICTIONS

- **Cotton:** Do not apply more than 2 applications per growing season.
- **Potatoes:** Do not apply more than 6 applications per growing season
- **Tomatoes:** Do not apply more than 4 applications per growing season.
- Alternate **ACETASTAR® 46 EC** with a registered product from a different chemical group. Avoid using **KOHINOR® 350 SC** or any other formulations of IMIDACLOPRID in an **ACETASTAR® 46 EC** spray programme, as these are chemically related.
- Avoid using **ACETASTAR® 46 EC** on plants that are under stress conditions caused by drought, nematodes and water logging conditions etc. since this will affect the systemic uptake, translocation and chemical activity of the product.

- Avoid spraying **ACETASTAR® 46 EC** on plants covered with dust as dust interferes with the proper uptake of product and contact with insect.

DIRECTIONS FOR USE

Use only as directed.

Compatibility

The compatibility of **ACETASTAR® 46 EC** with other products may be influenced by the formulation of the product(s) it is mixed with as well as the quality of the dilution water. Since the formulation of other products may change without the knowledge of ADAMA and the quality of the water may differ from farm to farm, a physical compatibility test should always be carried out prior to application. For applications on potatoes, use **ACETASTAR® 46 EC** in conjunction with **MCW EOS** oil to improve efficacy is recommended.

Mixing instructions

Half fill the spray tank with clean water. Add the required quantity of **ACETASTAR® 46 EC** to a small amount of water and mix thoroughly before it is added to the spray tank while agitating. If **ACETASTAR® 46 EC** is tank mixed with other products, first mix these products separately with water before it is added to spray tank. Add water to just below the required capacity and then add the premixed **ACETASTAR® 46 EC** to the spray tank while continuously agitating the spray mixture. Add **MCW EOS** oil last (where applicable). Fill the spray tank with water to the required level while continuously agitating. Refer to the labels of the products which will be tank mixed with **ACETASTAR® 46 EC** and adhere to the label instructions. Only mix enough spray mixture sufficient for one day's spraying. Spray mixture should not be allowed to stand overnight.

APPLICATION

ACETASTAR® 46 EC can be applied by any suitable medium or high-volume spray equipment provided it is equipped with an efficient agitation system, it is able to distribute the spray mixture evenly over the target area and it is calibrated correctly.

Cotton (general instructions)

For the control of red spider mite on cotton, ensure thorough wetting of the cotton plant including the undersides of the leaves. Determine the red spider mite population index by weekly scoutings. Examine 48 plants per 15 hectares. Choose 3 leaves per plant, one from the middle and two from the upper portion.

Count the number of adult females on these three leaves and allocate one of the following values to the total:

0 mite	=	0
1–10 mites	=	1
11–20 mites	=	2
> 31 mites	=	3

The population index is then calculated by adding up the values obtained for the 48 plants and dividing the sum total by 48. Commence application if the population index has reached a value of

1.0. Repeat application as soon as any marked increase in the population index is noticed. Control must be aimed in keeping the population index below the spray threshold of 1.0.

APPLICATION RATES

CROP AND TARGET	DOSAGE	REMARKS
<p>Cotton</p> <p>Red spider mite (<i>Tetranychus spp.</i>)</p>	1.0 L/ha	Commence application as soon as the population index value reaches the 1.0 level. Do not delay application until high infestation levels are reached. Apply as full cover spray. Repeat application within 10 days after initial application. Ensure thorough wetting of the cotton plant including the undersides of the leaves. Do not apply more than 2 sprays per growing season. Use 200–400 L water per hectare depending on plant height.
<p>Aphid (<i>Aphis gossypii</i>)</p>	1.0 L/ha	Commence application as soon as pest is noticed before pest count is above economic threshold. Apply in 200–400 L water per hectare depending on plant height. Ensure good coverage of the plants. A second application might be necessary 7–10 days later. This application will also control leaf hopper or Jassid (<i>Jacobiella fascialis</i>).
<p>Potatoes</p> <p>Aphid (<i>Myzus persicae</i>)</p>	1.0 L/ha	Commence application as soon as the pest is noticed. Repeat 10–14 days later when necessary. Apply in 250–500 L water per hectare depending on plant size. Addition of a suitable wetter such as MCW EOS oil at 0.5% is recommended.
<p>Tuber moth (<i>Phthorimaea operculella</i>)</p>	1.5 L/ha	Commence spraying when plants are approximately one month old at first signs of infestation and repeat at 10–14-day intervals. Apply in 250–500 L water per hectare depending on plant size. Addition of a suitable wetter such as MCW EOS oil at 0.5% is recommended.
<p>Tomatoes</p> <p>Red Spider Mite (<i>Tetranychus spp.</i>)</p> <p>Whiteflies (<i>Bemisia tabaci</i>, <i>Trialeurodes vaporariorum</i>)</p>	1.0 L/ha	Commence application at flowering at first signs of infestation. Use 300–500 L spray mixture per hectare depending on plant size. Ensure thorough coverage of the plant including the undersides of leaves. Repeat application 7–10 days after initial spray. Do not apply more than 4 applications per growing season.
<p>African bollworm (<i>Helicoverpa armigera</i>)</p>	1.0 L/ha	Commence application at flowering or at first signs of infestation. Ensure thorough coverage of the plant including the leaves, flowers and fruit. Repeat application every 7–10 days if necessary. Do not apply more than 4 applications per growing season.



MCW EOS (L7954) is a trademark of a company of the ADAMA GROUP.

WAARSKUWINGS

- Skadelik indien ingesluk.
- Kan skadelik wees indien ingesluk en lugweg binnedring.
- Verorsaak ernstige oogirritasie.
- Mag slaperigheid of duiseligheid veroorsaak.
- Vermoede dat dit kanker veroorsaak.
- Baie giftig vir waterlewende organismes met langdurige gevolge.
- Vlambare vloeistof en damp.

Onthoudingsperiodes (minimum aantal dae tussen laaste toediening en oes of beweiding):

Aartappels	21 dae
Katoen	28 dae
Tamaties	5 dae

Uitvoergewasse: Die plaaslike maksimum residuvlakke (MRV's) sal nie oorskry word nie indien **ACETASTAR® 46 EC** volgens etiketaanbevelings gebruik word. ADAMA South Africa (Pty) Ltd kan egter nie verantwoordelik gehou word indien uitvoer-MRV's oorskry sou word nie. Skakel die plaaslike uitvoerorganisasies rakende tyd van toediening, onthoudingsperiodes en spesifieke toleransievereistes van lande waarheen produkte uitgevoer gaan word.

- Hanteer versigtig.
- Stoor in 'n koel, droë plek weg van van voedsel, voer, saad, en misstowwe.
- **Herbetreding:** Moet nie behandelde gebied binnegaan voordat die spuitneerslag droog is nie, tensy beskermende klere gedra word.
- **Gewasveiligheid:** Onder normale groeitoestande is **ACETASTAR® 46 EC** veilig vir gebruik op alle algemene kultivars aangesien geen betekenisvolle fitotoksisiteit soos oesverlies al waargeneem is nie. Moet nie **ACETASTAR® 46 EC** op nuut vrygestelde kultivars gebruik nie voordat die registrasiehouer eers geraadpleeg is nie.

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 plaag teen die betrokke middel sowel as die tyd en akkuraatheid van toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei en die omgewing of nadelige invloede op mense of diere 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

- Hou buite bereik van kinders.
- Verkry, lees en volg alle veiligheidsinstruksies voor gebruik.
- Hou weg van hitte, warm oppervlakte, vonke, oop vlamme en ander ontstekingsbronne. Rook verbode.
- Aard en verbind houer en ontvangstoerusting en stel voorkomende maatreëls teen statiese ontladings in.
- Gebruik plofbestande elektriese/ventilasie-/beligting-/ander toerusting en vonkvrye gereedskap.
- Hou houer dig geseël.
- Vermyn inaseming van poeier/walm/gas/stuifsel/dampe of spuitstof.
- Vermyn vrystelling in die omgewing.
- Was hande, gesig en blootgestelde vel deeglik na hantering.
- Moet nie eet, drink of rook wanneer hierdie produk gebruik word nie.
- Gebruik slegs buitenshuis of in 'n goed geventileerde area.
- Dra beskermende handskoene, beskermende klere, oogbeskerming, gesigbeskerming.
- INDIEN INGESLUK: Verkry onmiddellik mediese noodhulp.
- Spoel mond uit.
- Moet NIE braking induseer nie.
- INDIEN OP VEL (of hare): Trek onmiddellik alle besoedelde klere uit. Spoel aangetaste areas met water af of stort.
- INDIEN INGEASEM: Neem slagoffer na vars lug en hou gemaklik vir asemhaling.
- INDIEN IN OË: Spoel versigtig met water vir etlike minute. Verwyder kontaklense indien aanwesig en maklik om te verwyder. Hou aan met spoel.
- In geval van brand: Gebruik droë chemikalieë, CO₂, watersproei of alkoholbestande skuim om te blus.
- Maak stortsel bymekaar.
- Berg in 'n goed geventileerde plek. Hou koel.
- Raak ontslae van inhoud/houer by 'n goedgekeurde afvalverwyderingsaanleg.

- Vermyn kontak met die vel en oë.
- Trek besoedelde klere uit en was daagliks.
- Vermyn dat die spuitnewel oor ander gewasse, weiding, riviere, damme of gebiede wat nie onder behandeling is nie, wegdryf.
- Keer die leë houer oor die spuit of mengtenk om en dreineer vir minstens 30 sekondes nadat die vloeitot '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).

- Moet nie die houer begrawe, verbrand of aan enige ander partye skenk wat dit as houer vir voedsel of drinkgoed mag gebruik nie.
- Maak die toediener deeglik skoon na gebruik en gooi die spoelwater weg waar dit nie gewasse, riviere of damme sal besoedel nie.
- Vermy besoedeling van voedsel, voer, drinkwater en eetgerei.

RELEVANTE STOWWE

Chemiese naam	w/w %	CAS nr.
Koolwaterstowwe, C ₁₀ , aromatiese middels, >1% naftaleen	>60%	64742-94-5
Sikloheksanon	10 – 30%	108-94-1
Bifentrien	<10%	82657-04-3
Kalsiumdodesielbenseensulfonaat	<10%	26264-06-2
Asetamipried	<10%	135410-20-7
2-Etielheksaan-1-ol	<10%	104-76-7

NOODHULPBEHANDELING

Ingeval van 'n ongeluk of ongesteldheid, verkry onmiddellik mediese advies. Verskaf hierdie etiket en SDS aan mediese personeel vir behandeling. Noodhulppersoneel moet beskermende klere dra wat geskik is vir die soort en graad van kontaminasie.

Trek onmiddellik alle besoedelde klere uit en verwyder die geaffekteerde persoon uit die besoedelde area. Hou die persoon warm, kalm en bedek. Noodhulppersoneel moet oplet na hulle eie veiligheid.

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

Oogkontak: Spoel onmiddellik met groot hoeveelhede water. Na oë aanvanklike gespoel is, verwyder enige kontaklense en hou aan met spoel vir ten minste 15 minute. Hou oog wyd oop terwyl gespoel word. Verkry onmiddellike mediese hulp/advies.

Velkontak: Trek alle besoedelde klere en skoene uit. Spoel die vel onmiddellik met groot hoeveelhede water vir 15 tot 20 minute onder die veiligheidsstort. Raadpleeg 'n dokter indien nodig.

Inaseming: Verwyder die geaffekteerde persoon uit die blootstelling na 'n area met vars lug. Indien asemhaling moeilik is, moet suurstof deur gekwalifiseerde personeel toegedien word. Indien asemhaling ophou, gee kunsmatige asemhaling. Moenie mond-tot-mond asemhaling toepas indien die persoon die produk ingesluk of ingeasem het nie; pas kunsmatige asemhaling toe met behulp van 'n mond-tot-mond respirator of ander toepaslike mediese asemhalingstoerusting. Raadpleeg 'n dokter.

Indien ingesluk: Kontak onmiddellik 'n gifstofbeheersentrum of mediese praktisyn vir behandelingsadvies. Indien by volle bewussyn, laat mond deeglik uitspoel met water. Moet NIE braking induseer nie. Moet nooit iets per mond aan 'n bewustelose persoon of 'n persoon met stuiptrekkings gee nie. Indien spontane braking plaasvind, laat die slagoffer vooroor buig om inaseming van braaksel te verhoed. Spoel mond uit en gee nog water. Verkry mediese hulp onmiddellik indien simptome voorkom.

TOKSIKOLOGIESE INLIGTING

Teenmiddels

Geen teenmiddel bekend nie. Simptomatiese terapie word aanbeveel,

Simptome van menslike vergifting

Geen bekend nie.

NOTA AAN DIE GEBRUIKER: Hierdie landboumiddel moet slegs gebruik word soos aangedui volgens die gebruiksaanwysings in hierdie etiket. Dit is 'n oortreding van die Wet om hierdie middel te gebruik op 'n wyse wat strydig is met die aanwysings op die etiket

WEERSTANDSWAARSKUWING

Vir die doel van weerstandsbestuur word **ACETASTAR® 46 EC** as 'n IRAC groepkode 4A/3A insekdoder geklassifiseer. Enige insekbevolking mag individue bevat wat 'n natuurlike weerstand teen **ACETASTAR® 46 EC** en ander groepkode 4A/3A insekdoders het. Die weerstandbiedende individue kan uiteindelik die insekbevolking oorheers as hierdie insekdoders herhaaldelik gebruik word. Hierdie weerstandbiedende insekte mag dalk nie deur **ACETASTAR® 46 EC** of ander groepkode 4A/3A insekdoders beheer word nie.

Om insekweerstand te vertraag:

- Vermyn die uitsluitlike herhaalde gebruik van insekdoders van dieselfde insekdodergroep-kode. Wissel af, of gebruik in tenkmengsels met middels van ander groepkodes.
- Integreer beheermetodes (chemiese, bewerking, biologies) in insekbeheerprogramme.

Vir meer spesifieke inligting rakende weerstandsbestuur, skakel die registrasiehouer van hierdie produk.

MEGANISME VAN WERKING

4A: Nikotiniën-asetielcholinesterasereseptor (nAChER) mededingende moduleerders – bind aan die asetielcholinposisie op nAChERe, wat 'n reeks van simptome veroorsaak, van hiperopwekking tot lusteloosheid en verlamming. Asetielcholin is die belangrikste senuwee-oordraer in die insek se sentrale senuweestelsel.

3A: Natriumkanal-moduleerder: Hou natriumkanale oop, wat hiperprikkelbaarheid en in sommige gevalle senuweeblok veroorsaak. Natriumkanale speel 'n rol in die voortsetting van aksiepotensiale langs die senuwee-aksons af.

GEBRUIKSBEPERKINGS

- **Aartapples: Moet nie** meer as 6 toedienings per groeiseisoen toedien nie.
- **Katoen: Moet nie** meer as 2 toedienings per groeiseisoen toedien nie.
- **Tamaties: Moet nie** meer as 4 toedienings per groeiseisoen toedien nie.
- Wissel **ACETASTAR® 46 EC** af met 'n geregistreerde produk uit 'n ander chemiese groep. Vermoed die gebruik van KOHINOR® 350 SC of enige ander formulerings van IMIDAKLOPRIED in 'n **ACETASTAR® 46 EC** spuitprogram, aangesien hulle chemies verwand is.
- Moet nie **ACETASTAR® 46 EC** op plante toedien nie wat onder stremming verkeer veroorsaak deur droogte, aalwurms, versuiptoestande ens. aangesien dit die sistemiese opname, vervoer en chemiese aktiwiteit van die produk sal beïnvloed.
- Moet nie **ACETASTAR® 46 EC** op plante wat met stof bedek is spuit nie aangesien die stof sal inmeng met die opname van die produk asook swak die kontak met die insek veroorsaak.

GEBRUIKSAANWYSINGS

Gebruik slegs soos aangedui.

Verenigbaarheid

Die verenigbaarheid van **ACETASTAR® 46 EC** met ander produkte kan beïnvloed word deur die formulering van daardie produk(te) en die kwaliteit van die verdunningswater. Aangesien die formulering van produkte kan verander sonder ADAMA se medewete en die waterkwaliteit van plaas tot plaas kan verskil, is dit altyd raadsaam om eers 'n fisiese verenigbaarheidstoets te doen voor bespuiting plaasvind. Vir toediening op aartappels word dit aanbeveel dat **ACETASTAR® 46 EC** saam met **MCW EOS** olie gebruik word om die effektiwiteit te verbeter.

Vermenging

Vul die spuittenk halfvol met skoon water. Meng die benodigde hoeveelheid **AcetaStar® 46 EC** vooraf apart met 'n klein hoeveelheid water en voeg in die tenk terwyl geroer word. Wanneer tenkmengsels met ander produkte gemaak word, moet hierdie produkte eers afsonderlik met water gemeng word en eerste in die spuittenk gevoeg word. Voeg nou water by tot net onder die verlangde kapasiteit en voeg nou die vooraf gemengde **ACETASTAR® 46 EC** by terwyl voortdurend geroer word. Voeg **MCW EOS** olie laaste by (waar van toepassing). Vul nou die spuittenk met water tot die verlangde vlak terwyl voortdurend geroer word. Verwys na die etikette van die produkte wat met **ACETASTAR® 46 EC** gemeng gaan word en kom die etiketvoorskrifte na. Meng net genoeg spuitmengsel vir 'n dag se gebruik. Moet nie die spuitmengsel oornag laat staan nie.

TOEDIENING

ACETASTAR® 46 EC kan deur middel van enige medium of hoë volume spuitapparaat toegedien word mits dit met 'n doeltreffende roermeganisme toegerus is, dit die spuitmengsel eweredig oor die teikengebied kan versprei en dit korrek gekalibreer is.

Katoen (algemene aanwysings)

Vir die beheer van roospinmyt op katoen moet die blare van die katoenplante deeglik benat word. Dit sluit die onderkant van die blare in. Bepaal die roospinmyt populasie-indeks met behulp van

weeklikse verkenning. Onderzoek 48 plante per 15 hektaar. Kies 3 blare per plant, een van die middel en twee aan die bokant van die plant. Tel die aantal volwasse wyfies op hierdie drie blare en ken een van die volgende waardes aan die totaal toe:

0 myte	=	0
1–10 myte	=	1
11–20 myte	=	2
> 31 myte	=	3

Die populasie-indeks word nou bereken deur die waardes verkry vir die 48 plante bymekaar te tel en die somtotaal deur 48 te deel. Begin toedien sodra die populasie-indeks 'n waarde van 1.0 bereik het. Herhaal die toediening sodra daar 'n merkbare toename in die populasie-indeks waargeneem word. Beheer moet daarop gemik wees om die populasie-indeks onder die spuitdrempelwaarde van 1.0 te hou.

TOEDIENINGSHOEVEELHEDE

GEWAS EN PLAAG	DOSIS	OPMERKINGS
Aartappels Plantluise (<i>Myzus persicae</i>) Aartappelmot (<i>Phthorimaea operculella</i>)	1.0 L/ha 1.5 L/ha	Dien toe sodra die plaag opgemerk word en herhaal toediening na 10–14 dae wanneer nodig. Dien toe in 250–500 L water per hektaar afhangende van die grootte van die plante. Die byvoeging van 'n geskikte benatter soos MCW EOS olie teen 0.5% word aanbeveel. Dien toe wanneer die plante ongeveer 1 maand oud is en sodra die plaag opgemerk word. Herhaal toediening met 10–14 dae tussenposes. Dien toe in 250–500 L water per hektaar afhangende van die grootte van die plante. Die byvoeging van 'n geskikte benatter soos MCW EOS olie teen 0.5% word aanbeveel.
Katoen Rooispinmyt (<i>Tetranychus spp.</i>) Plantluis (<i>Aphis gossypii</i>)	1.0 L/ha 1.0 L/ha	Begin toediening sodra die populasie-indeks die waarde van 1.0 bereik. Moenie toediening uitstel tot hoë besmettingsvlakke bereik word nie. Dien toe as 'n volle deктоediening. Herhaal toediening binne 10 dae na die eerste toediening. Die katoenplante, insluitend die onderkant van die blare, moet deeglik benat word. Moet nie meer as 2 bespuitings per groeiseisoen toedien nie. Dien toe in 200–400 L water per hektaar, afhangende van die hoogte van die plante. Dien toe sodra die plaag opgemerk word voordat die pes telling die ekonomiese drempelwaarde bereik. Dien toe in 200–400 L water per hektaar, afhangende van die hoogte van die plante. Verseker goeie bedekking van



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GEWAS EN PLAAG	DOSIS	OPMERKINGS
		die plante. 'n Tweede toediening mag 7–10 dae later nodig wees. Hierdie toediening sal ook katoenblaarspringer (<i>Jacobiella fascialis</i>) beheer.
Tamaties Rooispinmyt (<i>Tetranychus spp.</i>) Witvlieg (<i>Bemisia tabaci</i> ; <i>Trialeurodes vaporariorum</i>)	1.0 L/ha	Dien toe by blom sodra die eerste tekens van die plaag waargeneem word. Gebruik 300–500 L spuitmengsel per hektaar afhangende van die hoogte van die plante. Verseker goeie bedekking van die plante, insluitend die onderkant van die blare. Herhaal toediening 7–10 dae na die aanvanklike toediening. Moet nie meer as 4 toedienings per groeiseisoen toedien nie.
Afrika bolwurm (<i>Helicoverpa armigera</i>)	1.0 L/ha	Dien toe by blom of sodra die eerste tekens van die plaag waargeneem word. Maak seker dat die plante, insluitend blare, blomme en vrugte, deeglik bedek word. Herhaal toedienings elke 7–10 dae indien nodig. Moet nie meer as 4 toedienings per groeiseisoen toedien nie.

MCW EOS (L7954) is die handelsmerk van 'n maatskappy van die ADAMA GROEP.