

FARMAG

# CYPERMETHRIN

Reg. No. / Nr L3207 Act No. 36 of 1947/ Wet Nr 36 van 1947

**INSECTICIDE**



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

IRAC INSECTICIDE GROUP CODE

3

IRAC INSEKODER GROEPEKODE

An emulsifiable concentrate contact and stomach insecticide for the control of agricultural pests as indicated.

'n Emulgeerbare konsentraat kontak- en maaginsedoder vir die beheer an landbouplae soos aangedui.

**ACTIVE INGREDIENT/AKTIEWE BESTANDEEL:**

Cypermethrin (pyrethroid) .....200 g/l..... sipermetriën (piretroïed)



**DANGER**

**Hazard Statements:**

- Flammable liquid and vapour.
- Toxic if swallowed.
- Harmful in contact with skin or if inhaled.
- Causes skin irritation.
- May cause respiratory irritation.
- May cause damage to organs through prolonged or repeated exposure.
- Very toxic to aquatic life.
- Toxic to aquatic life with long lasting effects.

**Precautionary Statements:**

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Do not breathe vapours, spray.
- IF SWALLOWED: Immediately call a poison center or doctor.
- IF ON SKIN: Wash with plenty of water
- IF INHALED: Remove person to fresh air and keep comfortable for breathing. If skin irritation occurs: Get medical advice/attention.
- In case of fire: Use carbon dioxide (CO2), dry extinguishing powder, foam to extinguish.

Batch No:

D.O.M:

D.O.E:

Net Mass:

See reverse of packaging for details.

FOR FULL PARTICULARS SEE ATTACHED PAMPHLET.

VIR VOLLEDIGE BESONDERHEDE KYK AANGEHEGTE ETIKET.

UN No. / VR Nr: 3351

Poison Information Helpline (24 hrs): 0861 555 777



REGISTRATION HOLDER/ REGISTRASIEHOUER  
Castle Ag-Chem (Pty) Ltd.  
Reg. No. / Nr. 2007/033120/07  
61 Marshall Drive, Old Mill Industrial Park,  
Mount Edgecombe.  
Tel: (031) 003 3486



**BARCODE**

100450

165(H) x 140(W) mm

CYAN

MAG

YEL

BLK

100450

## WARNINGS

**Hazard Statements:** Flammable liquid and vapour. Toxic if swallowed. Harmful in contact with skin or if inhaled. Causes skin irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects

### PRE-HARVEST INTERVAL:

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

Apples and Pears.....	14 days
Beans.....	7 days
Cotton (grazing).....	28 days
Cruciferae.....	4 days
Grapes (wine and table).....	28 days
Groundnuts (hay).....	7 days
Lucerne (grazing).....	14 days
Macadamia nuts.....	30 days
Maize.....	14 days
Pastures (grazing).....	14 days
Peaches.....	14 days
Peas.....	7 days
Sorghum.....	28 days
Sweetcorn.....	14 days
Tomatoes.....	4 days
Citrus.....	28 days

- **Re-entry Interval:** Do not enter treated area within 1 day after treatment, unless wearing protective clothing.
- **In case of poisoning call a doctor and make the label available to him.**
- **Aerial application warning:** Notify all inhabitants of the immediate area to be sprayed and issue the necessary warning. Do not spray over or allow drift to contaminate adjacent areas, rivers or dams.

**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, incompatibility 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 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 in the event of any uncertainty.**

## PRECAUTIONS

### Precautionary Statements

**General:** - If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe vapours, spray. Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** IF SWALLOWED: Immediately call a poison center or doctor. IF ON SKIN: Wash with plenty of water. Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. Get medical advice/attention if you feel unwell. Specific treatment (see supplemental first aid instruction on this label). Rinse mouth. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use carbon dioxide (CO<sub>2</sub>), dry extinguishing powder, foam to extinguish. Collect spillage

**Storage:** Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

**Disposal:** Dispose of contents and container to an approved waste disposal plant.

- Avoid drift of spray mist onto other crops, grazing, rivers and dams and areas not under treatment.
- Clean application equipment after use. Dispose of wash water where it will not contaminate crops, grazing, rivers, dams and boreholes.
- **TRIPLE RINSE the empty container as follows:** 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.
- Destroy empty container by perforation, flattening and burying.
- Do not use empty container for any other purpose.
- Prevent contamination of food, feed, eating utensils and drinking water.

#### RELEVANT SUBSTANCES:

NAME	PRODUCT IDENTIFIER
Cypermethrin 97% TC	CAS-No.: 52315-07-8
Xylene	CAS-No.: 1330-20-7
Tristyrylphenol Ethoxylates	CAS-No.: 99734-09-5
Calcium dodecylbenzenesulphonate	CAS-No.: 26264-06-2

#### SYMPTOMS OF POISONING

Causes burning, itching or tingling sensations of the skin which readily disappears within 24 hours after exposure. Inhalation causes nasal discharge and a scratchy throat. Symptoms of high-dose ingestion include nausea, prolonged vomiting, stomach pains and diarrhea progressing to convulsions, unconsciousness and coma. Hypersensitivity, tremors, muscular fibrillation, salivation, in co-ordination, incontinence of urine, and lacrimation, rapid and /or irregular respiration.

#### FIRST AID TREATMENT

**Eyes:** Flush eyes with clean, gentle flowing water for at least 20 minutes, occasionally lifting upper and lower lids, until no evidence of chemical remains. If irritation occurs and persists, obtain medical attention.

**Skin:** Remove contaminated clothing and rinse contaminated body area thoroughly with plenty of soap and cold water, until no evidence of chemical remains. Do not rub skin. Apply olive oil to affected areas for prompt relief. Obtain medical attention of irritations occurs or persists.

**Inhalation:** Move the patient to fresh air. If breathing is difficult or irritation occurs and persists, obtain medical attention.

**Ingestion:** Do not induce vomiting. If patient is alert, rinse mouth thoroughly with clean water. Do not give anything by mouth if patient is unconscious. If vomiting occurs, prevent vomit being inhaled. Obtain medical attention.

#### NOTE TO PHYSICIAN

This pesticide contains a pyrethroid and an aromatic solvent. If pesticide is aspirated into lungs during ingestion or vomiting, mild to severe chemical pneumonia may be caused. The stomach should be emptied as soon as possible by careful gastric lavage.

No antidote is available. Treat symptomatically and supportively. In case of ingestion, consider gastric lavage with water or 5 % sodium bicarbonate solution. Convulsions should be treated with anti-convulsants.

#### RESISTANCE WARNING

For resistance management, **FARMAG CYPERMETHRIN** is a group code 3 insecticide. Any insect population may contain individuals naturally resistant to **FARMAG CYPERMETHRIN** and other group code 3 insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **FARMAG CYPERMETHRIN** or any other group code 3 insecticides.

To delay insecticide resistance:

- Avoid exclusive repeated use of insecticide from the same insecticide group code. Alternate or tank mix with products from different insecticide group codes.
  - Integrate other control methods (chemical, cultural, biological) into insect control programmes.
- For specific information on resistance management contact the registration holder of this product.

**Warning against American (African) bollworm resistance:**

Resistance of American (Africa) bollworm (*Helicoverpa armigera*) to synthetic pyrethroids has been confirmed.

**Cotton:** Synthetic pyrethroids must only be applied to cotton during the period 1 January to 28 February.

**All other crops:** Do not apply more than two applications per growing season. If a pyrethroid gives poor performance, do not respray with any synthetic pyrethroid, even at a corrective dosage rate.

Use a product from a different chemical group.

**MODE OF ACTION:**

Acts on the nervous system of the insect, and disturbs the function of neurons by interaction with the sodium channel. Non-systemic insecticide with contact and stomach action. Also exhibits anti-feeding action. Good residual activity on treated plants.

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

- Do not mix **FARMAG CYPERMETHRIN** with seaweed extract, vamidothion, prothiophos, chinomethionate and amitraz containing pesticides.
- Do not add a wetting agent to the **FARMAG CYPERMETHRIN** spray mixture when spraying apples, pears and grapes.
- **FARMAG CYPERMETHRIN** is compatible with a wide range of pesticides. However, since it is not possible for Cipla Agricare (Pty) Ltd to test all possible combinations, it is advised to carry out a compatibility test on a small scale in the event of any uncertainty.
- The effectiveness of **FARMAG CYPERMETHRIN** can be negatively influenced by high pH values of the spray mixture. Cypermethrin, the active ingredient of **FARMAG CYPERMETHRIN**, is more stable at a pH of around 4. Where an acidifying agent is used to lower the pH of the water, the agent must be added to the water before adding **FARMAG CYPERMETHRIN**.
- The addition of molasses to the spray mixture has an acidifying effect and is used to reduce evaporation of the spray mist. For ground application add 10 % molasses by volume and 20 % for aerial application.

**Mixing Instructions**

Half fill the spray tank with clean water. Add the required amount of **FARMAG CYPERMETHRIN** to the tank whilst agitating. Thereafter, fill the tank to the required volume with water and maintain agitation until spraying is completed. Refer 'COMPATIBILITY' above regarding pH of spray mixture.

**Ground Application**

When using a conventional high volume sprayer or a mistblower, fit equipment with hollow cone nozzles that give medium to fine droplets. Ensure that sprayers are calibrated before spraying and care taken of thorough coverage of the crop and uniform distribution of spray mixture.

**Volume water to be applied per hectare in deciduous fruit orchards:**

The volume of water to be applied per hectare in deciduous fruit orchards is calculated according to the Tree Row Volume Formula as described by Unrath:

The formula is as follows:  $\frac{\text{Tree height} \times \text{tree diameter} \times 937}{\text{Row width}}$  = Volume water to be applied per hectare

The measurements used in the formula are those of the tree in full leaf cover. Because deciduous fruit trees are not always in full leaf the water volume to be applied per hectare at the earlier growth stages is as follows:

From green-tip to 30 % blossom - 60 % of HV to be applied From ca. full blossom to ca.

November - 80 % of HV to be applied

From ca. beginning of December - 100 % of HV to be applied

When pesticides are applied as low volume sprays the correct quantity of pesticide, as calculated for high volume applications, must be applied per hectare.

**Aerial Application**

Aerial application of **FARMAG CYPERMETHRIN** may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SANS 10118: 2009 (The Aerial Application of Pesticides). 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 be met:

- **Volume:** A spray mixture volume of 30 litre per hectare 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 this product is applied aerially at a lower volume rate than recommended above.

- **Droplet coverage:** 30 to 40 droplets per cm<sup>2</sup> must be recovered at the target area.
- **Droplet size:** A droplet spectrum with a VMD of 250 to 280 microns is recommended. Limit the production of fine droplets less than 150 microns (high drift and evaporation potential) to a minimum.
- **Flying height:** Maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking.
- Use suitable **atomising equipment** that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all the atomisers within the inner 60 to 75 % of the wingspan to prevent droplets from entering the **wingtip vortices**.
- The difference in **temperature** between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8 °C.
- Stop spraying if the **wind speed** exceeds 15 km/h.
- Stop spraying under **turbulent, unstable and dry** conditions during the heat of the day.
- Spraying under temperature **inversion conditions** (spraying in or above the inversion layer) and/or **high humidity conditions** (relative humidity 80 % and above) 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 drifting of the suspended spray cloud away from the target field.
- Ensure that the Aerial Spray Operator knows exactly which fields to spray.
- Obtain an assurance from the Aerial Spray Operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

CROP/PEST	DOSAGE RATE / 100ℓ WATER OR AS INDICATED	REMARKS
<b>AFFORESTATION</b> Pine emperor moth larva	50 mℓ/ha	<b>Aerial application</b> Apply in 30ℓ water per ha
Willow tree emperor moth larva	100 mℓ/ha	<b>Aerial application</b> Apply in 30ℓ water per ha
Wattle bagworm	100 mℓ/ha	<b>Aerial application</b> Apply in 30ℓ water per ha commencing November/December
<b>ALL CROPS</b> Cutworms	100 mℓ/ha 0.33 mℓ/100m plant row 100 mℓ/ha	Apply as soon as pest is noticed as a treatment either pre- or post-emergence of crop. Ensure that top 3cm of soil is moist. Repeat treatment in cases of re-infestation. <b>Ground Application</b> <b>Overall spray:</b> apply in 300ℓ water per ha. <b>Band spray</b> (300 mm breed): apply in at least 3ℓ water per 100 m row. <b>Aerial application</b> Apply in 30ℓ water per ha.
<b>APPLES &amp; PEARS</b>		To determine the volume of water in which <b>FARMAG CYPERMETHRIN 200 EC</b> should be applied per hectare refer ' <b>GROUND APPLICATION: Volume water to be applied per hectare in deciduous fruit orchards</b> '. Also refer ' <b>COMPATIBILITY</b> '.
Codling moth Leaf roller	5 mℓ	Apply first spray at 75% petal drop and repeat at 14 day intervals.
American (Africa) bollworm	5 mℓ	Apply as a corrective treatment not earlier than 75% petal drop. Refer ' <b>Warning against American (Africa) bollworm resistance</b> ' under ' <b>RESISTANCE WARNING</b> '
Banded fruit weevil (Snout beetle)	10 mℓ	Apply two sprays, the first 75% petal drop. Repeat 4 weeks later. Further, either a low or high volume spray can be applied during mid-January to prevent late season damage.

<b>BEANS</b> American (Africa) bollworm	150 mL/ha  150 mL/ha	<b>Ground application</b> Apply in 300ℓ water per ha. Inspect lands regularly and if necessary, repeat application.  <b>Aerial application</b> Apply in 30ℓ water per ha. Refer ' <b>Warning against American (Africa) bollworm resistance' under 'RESISTANCE WARNING'</b> '
<b>COTTON</b>  American (Africa), red and spiny bollworms Stainers Semi- (Plusia) looper	75 mL  75 mL of 150 mL/ha  87 mL of 175 mL/ha  250 mL  250 or 500 mL/ha  250 or 500 mL/ha	See ' <b>Warning against American (Africa) bollworm resistance' under 'RESISTANCE WARNING'</b> '. In order to comply with the principles of pest management and integrated control measures, <b>FARMAG CYPERMETHRIN</b> is intended to be used during the period of fruiting from peak flowering until boll split, i.e. approximately 10 to 22 weeks after crop emergence. <b>FARMAG CYPERMETHRIN</b> is primarily intended for use as a preventive control programme applied at 7 day intervals. Normally a bollworm spray programme will commence at the beginning of flowering i.e. about 6 weeks after crop emergence. From then until peak flowering use registered non-pyrethroid remedies. <b>Weekly spray programme:</b> Preventive treatment: Base application on scouting of lands. Scout 24 plants at random in lands up to 15 ha at weekly intervals from flowering until boll split. Apply <b>FARMAG CYPERMETHRIN</b> when the economic threshold is reached or exceeded i.e. for American (Africa) bollworm an average of 12 eggs or 5 larvae per 24 plants; red bollworm an average of 6 eggs or larvae per 24 plants and spiny bollworm when 2 or more larvae are found during scouting. Stainers and semi-looper will be controlled with applications for control of bollworms. <b>Ground application</b> Application with boom and nozzles. Ensure thorough coverage of the plants. For plants less than 60 cm high apply 100ℓ spray mixture per ha. For taller plants increase the spray mixture volume to 200ℓ per ha. Do not use less than 150 mL <b>FARMAG CYPERMETHRIN</b> per ha on mature cotton. <b>Mistblower</b> Use the lower dosage rate on cotton less than 60cm high and the higher dosage rate on cotton higher than 60cm. Do not use less than 150ℓ <b>FARMAG CYPERMETHRIN</b> on mature cotton. <b>Aerial application</b> Use the lower dosage on cotton less than 60cm high and the higher dosage rate on cotton higher than 60cm. Apply in 30ℓ water per ha. <b>Corrective treatment:</b> Apply as a corrective spray to control an established infestation, i.e. when more than 6 bollworms per 24 plants are found during scouting. The later development stages of the red bollworm already established inside bolls may not be controlled successfully. The success of a treatment can be related to application, density of crop foliage, crop stand and development stages of larvae. Allow up to 4 days for <b>FARMAG CYPERMETHRIN</b> to achieve its full effect. Consider a corrective application as an emergency measure and thereafter the regular programme must be resumed irrespective of the crop stage. <b>Ground application</b> Application with boom and nozzles. Ensure thorough coverage of the plants. For plants less than 60 cm high apply 100ℓ spray mixture per ha. For taller plants increase the spray mixture volume to 200ℓ per ha. Do not use less than 500 mL <b>FARMAG CYPERMETHRIN</b> per ha on mature cotton. <b>Mistblower</b> Use the lower dosage rate on cotton less than 60cm high and the higher dosage rate on cotton higher than 60cm. Do not use less than 500 mL <b>FARMAG CYPERMETHRIN</b> on mature cotton. <b>Aerial application</b> Use the lower dosage on cotton less than 60cm high and the higher dosage rate on cotton higher than 60cm.
<b>GRAPES</b> (Wine and table) Weevils (Snout beetles)	10 mL	Apply as soon as damage occurs. Repeat 3-4 weeks later if necessary. The occurrence of weevils (snout beetles) can be expected from mid-October to mid-November. Refer ' <b>COMPATIBILITY'</b> '

<b>CRUCIFERAE</b> American (Africa) bollworm Diamond back moth Thrips	10 mℓ	Ensure good wetting of the plant by adding a wetting agent. Start spraying at first signs of pest. Repeat every 10-14 days. <b>NOTE:</b> Refer “ <b>Warning against American (Africa) bollworm resistance</b> ” under ‘ <b>RESISTANCE WARNING</b> ’
<b>GROUNDNUTS</b> American (Africa) bollworm	150 mℓ/ha  150 mℓ/ha	Start spraying as soon as eggs or larvae are noticed. Repeat if necessary. <b>Ground application</b> Apply in 300ℓ water per ha  <b>Aerial application</b> Apply in 30ℓ water per ha Refer “ <b>Warning against American (Africa) bollworm resistance</b> ” under ‘ <b>RESISTANCE WARNING</b> ’
<b>LUCERNE</b> Lucerne caterpillar	75 mℓ/ha  75 mℓ/ha	Apply as full cover spray as soon as pest is noticed. <b>Ground application</b> Apply in 300ℓ water per ha. <b>Aerial application</b> Apply in 30ℓ water per ha.
<b>MACADAMIA NUTS</b> Stink bug	20 mℓ	Start spraying when nuts are marble size. Repeat after 4 weeks. If necessary, another spray 4 weeks later can be applied, but not later than 90 days before harvest.
<b>MAIZE &amp; SWEETCORN</b> American (Africa) bollworm	1.5mℓ/100 m plant row  150 mℓ/ha  3.5 mℓ/100 m plant row  350 mℓ/ha	Apply when pest is noticed. Ensure timeous application i.e. not later than 80% beard emergence and before larvae enter beard. Only larvae that come in contact with spray will be controlled. <b>Ground Application</b> If row width allows ground application, apply in not less than 3ℓ water per 100 metre row. Ensure that nozzles are directed towards the maize cobs. <b>Aerial application</b> Apply in 30ℓ water per ha. Refer “ <b>Warning against American (Africa) bollworm resistance</b> ” under ‘ <b>RESISTANCE WARNING</b> ’ <b>Preventative treatment</b> against young larvae based on scouting for eggs on plants. Scout fields weekly from 2 to 7 weeks after crop emergence by inspecting at least 100 plants at random per field. Apply 7 days after 2.5% or more plants are found to be infested with eggs. If eggs have hatched, spray at first signs of infestation. Direct spray into the funnel. Repeat application later in season when scouting shows it to be necessary. Larvae that have penetrated the stalk or are longer than 10mm will not be controlled. <b>Ground application</b> Do not apply in less than 3ℓ water per 100 m row. To ensure good coverage inside the funnel as well as on the sides of the plant, use at least two D4/35 or D6/35 nozzles per row. <b>Aerial application</b> Apply in 30ℓ water per ha.

<b>PEACHES</b>		To determine the volume of water in which <b>FARMAG CYPERMETHRIN</b> should be applied per hectare refer ' <b>GROUND APPLICATION: Volume water to be applied per hectare in deciduous fruit orchards</b> ' above.
American (Africa) Bollworm	5 mℓ	Apply as full cover spray at 75% petal drop or when pest is noticed. Refer " <b>Warning against American (Africa) bollworm resistance</b> " under ' <b>RESISTANCE WARNING</b> '
Codling moth	5 mℓ	Apply a full cover spray at 75% petal drop. Repeat at 14-21 day intervals.
False codling moth	5 mℓ	<b>Early cultivars</b> A full cover spray should be applied 6 weeks before harvest and repeated at 14 day intervals. <b>Late cultivars</b> A full cover spray should be applied 8 weeks before harvest and repeated at 14 day intervals. In the summer rainfall regions first application must not be later than third week December. Canned peaches As above, but last application can be made 3 days before harvest.
Fruit flies	10 mℓ	<b>All cultivars</b> A full cover spray should be applied 8 weeks before harvest and repeated at 14 day intervals. Canning peaches can be sprayed 3 days before harvest.
Banded fruit weevil (Snout beetle)	10 mℓ	Apply as soon as damage is noticed. Repeat after 4 weeks if necessary.
<b>PEAS</b>		
American (Africa) Bollworm	150 mℓ/ha	<b>Ground application</b> Apply in 300-500ℓ water per ha. If necessary repeat.
Lesser army	150 mℓ/ha	<b>Aerial application</b> Apply in 30ℓ water per ha. Refer " <b>Warning against American(Africa) bollworm resistance</b> " under ' <b>RESISTANCE WARNING</b> '
<b>SORGHUM</b>		
American (Africa) Bollworm	1.5 mℓ /100m row	Apply when pest is noticed. If bollworms are concealed in the ear, control may be less effective. Later infestation may require a second application.
Stalkborer	150 mℓ/ha	<b>Ground application</b> Direct application onto ears. Do not apply in less than 3ℓ water per 100 m row. <b>Aerial application</b> Apply in 30ℓ water per ha Refer " <b>Warning against American (Africa) bollworm resistance</b> " under ' <b>RESISTANCE WARNING</b> ' Apply at funnel stage when shot hole damage is evident and borer has not yet migrated into the stalks.
	3,5 mℓ/ha m row	<b>Ground application</b> Do not apply in less than 3ℓ water per 100 m row. To ensure good coverage inside the funnel as well as on the sides of the plant, use at least two D4/35 or D6/35 nozzles per row.
	350 mℓ/ha	<b>Aerial application</b> Apply in 30ℓ water per ha.
<b>TOMATOES</b>		
American (Africa) Bollworm	15mℓ	<b>Ground application</b> At first signs of infestation, apply as a full cover spray. Repeat at 7-10 day intervals or as necessitated by crop inspection'
	75 mℓ/ha	<b>High volume</b> Apply up to 500ℓ per ha spray mixture to plants up to 60cm high and 1 000ℓ per ha or more to plants higher than 60 cm eg. Trellised tomatoes. Do not use more than 150 mℓ <b>FARMAG CYPERMETHRIN</b> per ha.
	150 mℓ/ha	<b>Mist Blower</b> Apply in 150 mℓ water per ha for plants higher than 60 cm. Do not use more than 150 mℓ <b>FARMAG CYPERMETHRIN</b> per ha. Refer " <b>Warning against American(Africa) bollworm resistance</b> " under ' <b>RESISTANCE WARNING</b> '



<b>PASTURES</b>  Army worm	150 mℓ/ha  150mℓ/ha	<b>Ground application</b> Apply in 300ℓ water per ha.  <b>Aerial application</b> Apply in 30ℓ water per ha.
<b>Citrus</b> Thrips (a) Re-infestation 4 to 9 weeks after petal fall following use of any other registered treatment OR (b) Re-infestation mid November to 20 December following use of any other registered treatment.	15 – 20 mℓ/100 ℓ water  5 – 7 mℓ/100 ℓ water	Not to be used in orchards where red scale is under biological control.  Use progressively lower dosage the later the re-infestation occurs during the designated time period. Apply as a light cover spray to wet foliage canopy to the point of run-off.  Use progressively lower dosage the later the re-infestation occurs during the designated time period. Apply as a light cover spray to wet foliage canopy to the point of run-off.  <b>NOTE:</b> See use restrictions for citrus at the end of the label.
<b>USE RESTRICTIONS FOR CITRUS:</b> <ul style="list-style-type: none"> <li>• Restrict usage to a single application per season and preferable to the period 4 to 9 weeks after petal drop, for thrip control or 5 to 4 weeks before harvest for false codlingmoth control. Therefore, use <b>FARMAG CYPERMETHRIN</b> only once per season, either for thrip control or false codling moth control.</li> <li>• Restrict usage to orchards in which the red scale (<i>Aonidiella aurantii Mask</i>) is under commercial chemical control. The use of this product may lead to the build-up of red scale.</li> <li>• Where there is any intention to use <b>FARMAG CYPERMETHRIN</b> if thrips reinfestation occurs during the designated time periods, apply a registered preventive treatment for red scale control in the early spring and a second treatment 7 to 11 weeks after petal fall.</li> <li>• Do not use on trees with a history of Tetranychid mite infestations.</li> </ul>		

## WAARSKUWINGS

**Gevaarstellings:** Vlambare vloeistof en damp. Giftig indien ingestuk. Skadelik in kontak met die vel of indien ingeasem. Veroorsaak velirritasie. Kan respiratoriese irritasie veroorsaak. Mag skade aan organe veroorsaak deur langdurige of herhaalde blootstelling. Baie giftig vir waterlewe. Giftig vir waterlewe met langdurige effekte.

- **Onthoudingsperiodes:** minimum aantal dae tussen laaste toediening en oes of beweiiding:

Appels en pere .....	14 dae
Boontjies .....	7 dae
Katoen (beweiiding) .....	28 dae
Koolgewasse .....	4 dae
Druive (tafel en wyn) .....	28 dae
Grondbone (hooi) .....	7 dae
Lusern (beweiiding) .....	14 dae
Makademia neutre .....	30 dae
Mielies .....	14 dae
Weidings .....	14 dae
Perskes .....	14 dae
Ertjies .....	7 dae
Sorghum .....	28 dae
Suikermielies .....	14 dae
Tamaties .....	4 dae
Sitrus.....	28 dae

- **Herbetreding:** Moet nie behandelde gebied betree vir 1 dag na bespuiting nie, tensy beskermende oorklere gedra word.
- In geval van vergiftiging, ontbied 'n geneesheer en toon hierdie etiket aan hom.
- **Lugtoediening:** Stel alle inwoners van die onmiddellike gebied wat bespuiting gaan word, in kennis en reik die nodige waarskuwings uit. Moet nie spuit oor of toelaat dat spuitnewel aangrensende gebiede, riviere of damme besoedel 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 aangesien die werking en effek daarvan beïnvloed kan word deur faktore soos abnormale grond-, klimaats- en bergingstoestande, kwaliteit van verdunningswater, verenigbaarheid met ander stowwe wat nie op die etiket aangedui is nie en die voorkoms van weerstand van die plaag teen die betrokke middel sowel as die metode, tyd en akkuraatheid van toediening. Verder aanvaar die registrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei, die omgewing of vir nadelige effek op mens en dier of vir 'n gebrek aan prestasie van die betrokke middel as gevolg van die versuim deur die verbruiker 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.**

## VOORSORGMATREËLS

### Voorsorgstellings

**Algemeen:** Indien mediese advies benodig word, hou produkhouer of etiket byderhand. Hou buite bereik van kinders. Lees etiket voor gebruik.

**Voorkoming:** Hou weg van hitte, warm oppervlaktes, vonke, oop vlamme en ander ontstekingsbronne. Geen rook nie. Hou die houer dig toe. Grond en bind houer en ontvangtoerusting. Gebruik ontplofingsvaste toerusting. Gebruik gereedskap wat nie vonkel nie. Neem aksie om statiese ontladings te voorkom. Moet nie dampe inasem nie, spuit. Was hande, voorarms en gesig deeglik na hantering. Moet nie eet, drink of rook wanneer hierdie produk gebruik word nie. Gebruik slegs buite of in 'n goed geventileerde area. Vermyn vrylating na die omgewing. Dra beskermende handskoene/beskermende klerre/ogbeskerming/gesigbeskerming.

**Reaksie:** INDIEN INGESLUK: Ontbied onmiddellik 'n gifsentrum of dokter. INDIEN OP DIE VEL: Was met baie water. Trek onmiddellik alle gekontameneerde klerre uit. Spoel vel uit met water/stort. INDIEN INGESAEM: Verwyder persoon na vars lug en hou gemaklik om asem te haal. Bel 'n gifsentrum of dokter as jy onwel voel. Kry mediese advies/aandag as jy onwel voel. Spesifieke behandeling (sien aanvullende noodhulpinstruksies op hierdie etiket). Spoel mond uit. Indien velirritasie voorkom: Kry mediese advies/aandag. Trek besoedelde klerre uit en was dit voor hergebruik. In geval van brand: Gebruik koolstofdioksied (CO<sub>2</sub>), droë bluspoeier, skuim om te blus. Versamel gemors.

**Berging:** Hou houer dig toe. Berg in 'n goed geventileerde plek. Hou koel. Stoor toegesluit.

**Wegdoening:** Gooi inhoud en houer weg na 'n goedgekeurde afvalverwyderingsaanleg.

- Voorkom die oorwaai van spuitnewel na ander gewasse, weiding, riviere, damme en areas nie onder behandeling nie.
- Maak toedieningsapparaat skoon na gebruik. Doen weg met uitspoelwater waar dit nie gewasse, weiveld, riviere, damme en boorgate sal besoedel nie.
- **SPOEL die leë houder DRIEKEER UIT soos volg:** Keer die leë houder om oor die spuit- of mengtenk en dreineer vir ten minste 30 sekondes nadat die vloeit tot drup verlangsaam het. Spoel die leë houder daarna drie keer agtereenvolgens uit met een kwart van die houervolume vars water en gooi die spoelwater in die spuit- of mengtenk. Prik die drievoudig uitgespoelde houder deur en gooi weg via 'n goedgekeurde versamelaar of herwinner ([www.cropilife.co.za](http://www.cropilife.co.za)). Moet nie die houder begrawe, verbrand of skenk aan enige ander partye wat dit as 'n houer vir kos of drank kan gebruik nie.
- Vernietig leë houder deur gate daarin te kap, plat te druk en te begrawe.
- Moet nie leë houder vir enige ander doel gebruik nie.
- Voorkom besoedeling van voedsel, voer, eetgerei en drinkwater.

#### RELEVANTE STOWWE:

NAAM	PRODUK IDENTIFISEERDER
Sipermetrien 97% TS	CAS-Nr.: 52315-07-8
Xileen	CAS-Nr.: 1330-20-7
Tristyrylfenol-etoksilate	CAS-Nr.: 99734-09-5
Kalsiumdodesielbenseensulfonaat	CAS-Nr.: 26264-06-2

#### SIMPTOME VAN VERGIFTIGING

Veroorsaak branderigheid, jeukerige of tintelende sensasie van die vel wat gereedlik binne 24 uur na blootstelling, verdwyn. Inaseming veroorsaak 'n loopneus en krapperige keel. Simptome van inname van 'n hoë dosis sluit naarheid, aanhoudende braking, maagpyn en diarree wat oorgaan in stuiptrekkings, bewusteloosheid en koma, in.

#### NOODHULPBEHANDELING

**Oë:** Spoel oë met skoon, sagvloeiende water vir ten minste 20 minute terwyl die boonste en onderste ooglede gereedlik opgelig word en tot geen chemikalieë teenwoordig is nie. Indien irritasie voorkom en voortduur, ontbied 'n geneesheer.

**Vel:** Verwyder besoedelde klere en spoel geaffekteerde liggaamsdele deeglik met volop seep en koue water af tot geen teken van chemikalieë teenwoordig is nie. Moet nie vel hard vryf nie. Smeer olyfolie aan geaffekteerde dele vir onmiddellike verligting. Kry mediese hulp indien irritasie voorkom of voortduur.

**Inaseming:** Neem pasiënt na vars lug. Indien asemhalingsprobleme ondervind word of irritasie voorkom en voortduur, kry mediese hulp.

**Inname:** Moet nie braking veroorsaak nie. Indien die pasiënt by bewussyn is, spoel mond deeglik met water uit. Moet nie iets per mond aan 'n bewustelose persoon gee nie. Indien pasiënt braak, voorkom inaseming van braaksel. Kry mediese hulp.

#### NOTA AAN GENEESHEER

Hierdie plaagbeheermiddel bevat 'n piretroïed en 'n aromatiese oplosmiddel. Indien plaagbeheermiddel, wanneer ingestuk of tydens braking, in lange ingeasem word, kan ligte tot ernstige chemiese inflammasie van die longe veroorsaak word.

Die maag behoort so spoedig moontlik leeggemaak te word deur die maag versigtig uit te spoel.

Geen teenmiddel is beskikbaar nie. Behandel simptome en ondersteunend. In geval van inname, oorweeg maagspoeling met water of 'n 5 % natriumbikarbonaat-oplossing. Behandel stuiptrekkings met 'n middel daarteen.

#### WEERSTANDSWAARSKUWING

**FARMAG CYPERMETHRIN** is 'n groepkode 3 insekdoder. Enige populasie van 'n spesifieke insek mag individue insluit wat 'n natuurlike weerstand teen **FARMAG CYPERMETHRIN** of enige ander groepkode 3 insekdoder het. Indien hierdie insekdoder herhaaldelik aangewend word, kan die weerstandbiedende individue uiteindelik die insek populasie oorheers. Hierdie weerstandbiedende insekte sal waarskynlik nie deur **FARMAG CYPERMETHRIN** of enige ander groepkode 3 insekdoder beheer word nie.

Om weerstand teen insekdoders te vertraag:

- Vermyn die eksklusiewe herhaaldelike gebruik van insekdoders met dieselfde groepkode. Wissel af met, of gebruik tenkingsels van produkte in verskillende insekdodergroep kodes.
- Integreer ander beheermaatreëls (chemies, verbouing, biologies) in insekbeheer programme.

Vir spesifieke inligting oor weerstandsbestuur kontak die registrasiehouer van hierdie produk.

**Waarskuwing teen Amerikaanse (Afrika-) bolwurm bestandheid:**

Weerstand van die Amerikaanse (Afrika-) bolwurm (*Helicoverpa armigera*) teen sinteriese piretroïede is bevestig.

**Katoen:** Sintetiese piretroïedes moet slegs gedurende die periode 1 Januarie tot 28 Februarie op katoen toegedien word.

**Alle ander gewasse:** Moet nie meer as twee toedienings per groeiseisoen toedien nie.

As 'n piretroïedbespuiting swak beheer gee moet nie met enige sintetiese piretroïed, selfs teen 'n korrektiewe dosis, herspuit nie. Gebruik 'n produk uit 'n ander chemiegroep.

**WYSE VAN AKSIE:**

Werk op die senuweestelsel van die insek, en versteur die funksie van neurone deur interaksie met die natriumkanal. Nie-sistemiese insekdoder met kontak- en maagwerking. Toon ook anti-voeding aksie. Goeie nawerking op behandelde plante.

**GEBRUIKSAANWYSINGS: Gebruik slegs soos aangedui.**

**VERENIGBAARHEID**

- Moet nie **FARMAG CYPERMETHRIN** met sewierekstrak, vamidotien, protiofos, chinometonaat of amitras bevattende plaagbeheermiddels meng nie.
- Moet nie 'n benattingsmiddel by die **FARMAG CYPERMETHRIN** spuitmengsel voeg wanneer appels, pere en druiwe gespuit word nie.
- **FARMAG CYPERMETHRIN** is verenigbaar met 'n wye verskeidenheid plaagbeheermiddels. Dit is nie vir Cipla Agricare (Pty) Ltd moontlik om alle kombinasies te toets nie en word dit aanbeveel om 'n verenigbaarheids toets op klein skaal uit te voer indien daar enige twyfel bestaan.
- Die doeltreffendheid van **FARMAG CYPERMETHRIN** kan negatief deur 'n hoë pH waarde van die spuitmengsel beïnvloed word. Sipermetrien, die aktiewe bestanddeel in **FARMAG CYPERMETHRIN**, is meer stabiel by 'n pH van ongeveer 4. Indien 'n versuringsmiddel gebruik word om die pH te verlaag, moet dit eers met die verduningswater gemeng word, alvorens **FARMAG CYPERMETHRIN** bygevoeg word.
- Byvoeging van melasse by die spuitmengsel versuur en verminder die verdamping van die spuitnewel. Vir grondtoediening behoort 10 % melasse per volume bygevoeg te word en vir lugbespuiting 20 %.

**MENGINSTRUKSIES**

Vul spuitenk half met skoon water. Voeg die verlangde hoeveelheid **FARMAG CYPERMETHRIN** by terwyl deeglik geroer word. Vul die tenk hierna met water tot die verlangde volume en hou vol om mengsel in tenk te roer totdat bespuiting voltooi is. Lees inligting onder 'VERENIGBAARHEID' hierbo aangaande pH van spuitmengsel.

**GRONDTOEDIENING**

Wanneer 'n konvensionele hoë volume spuitapparaat en newelblaser gebruik word, gebruik holkeëlsputpunte wat 'n medium tot fyn druppelgrootte lewer. Die spuitapparate moet akkuraat gekalibreer word en tydens toediening moet daar seker gemaak word van goeie bedekking van gewas en eweredige verspreiding van spuitmengsel.

**Volume water wat per hektaar in sagte vrugteboorde toegedien moet word:**

Die volume water wat per hektaar in sagte vrugteboorde toegedien moet word, word volgens die Boomryvolume-formule soos deur Unrath beskryf, bereken:

Die formule is as volg:

$$\text{Boom hoogte} \times \text{boom diameter} \times 937 = \text{Volume water/ha wat toegedien moet word}$$

Ry wydte

Die afmetings wat in die formule gebruik word, is dié van die boom met volle blaarbedekking. Aangesien sagtevrugteboome nie altyd ten volle met blare bedek is nie, is die volume water wat per hektaar toegedien moet word tydens die vroeë groeistadia van die bome, as volg:

Van groenpunt tot 30 % blom - 60 % van die HV wat toegedien moet word

Van ca. volblom tot ca. November - 80 % van die HV wat toegedien moet word

Van ca. begin Desember - 100 % van die HV wat toegedien moet word

Wanneer plaagbeheermiddels as lae volume bespuitings toegedien word, moet die korrekte hoeveelheid plaagbeheermiddel, soos bereken vir hoë volume bespuitings, per hektaar toegedien word.

## LUGTOEDIENING

**FARMAG CYPERMETHRIN** kan slegs deur 'n geregistreerde Lugbespuitingsoperateur met 'n korrek gekalibreerde, geregistreerde vliegtuig volgens die instruksies van SANS 10118: 2009 (The Aerial Application of Pesticides) uit die lug bespuit word. Verseker dat die spuitmengsel eweredig oor die teikenarea versprei word, en die verlies aan spuitmengsel tydens toediening tot 'n minimum beperk word. Dit is daarom belangrik om aan die volgende vereistes te voldoen:

- **Volume:** 'n Spuitmengsel volume van 30 liter per hektaar word aanbeveel. Hierdie produk is nie teen 'n verlaagde volume getoets nie. Die registrasiehouer kan nie effektiwiteit waarborg, of verantwoordelik gehou word vir enige nadelige effekte indien hierdie produk teen 'n laer volume, as hierbo aanbeveel, toegedien word nie.
- **Druppel bedekking:** 30 tot 40 druppels per cm<sup>2</sup> moet op die teikenarea herwin word.
- **Druppelgrootte:** 'n Druppelspektrum met 'n VMD van 250 tot 280 mikrons word aanbeveel. Beperk die produksie van druppels kleiner as 150 mikrons (hoë drywing en verdampingspotensiaal) tot 'n minimum.
- **Vlieghoogte:** Handhaaf die hoogte van die spuitbalk bo die teiken op 3 tot 4 meter. Moet nie spuit wanneer die vliegtuig duik nie, uitklim of draal nie.
- Gebruik geskikte atomiseringsapparaat wat die vereiste druppelgrootte en bedekking sal produseer, maar die minste verlies van produk verseker. Die spuitstelsel moet 'n druppelspektrum met die kleinste moontlike Relatiewe Span produseer.
- Plaas al die atomiseerders in die bineste 60 tot 75 % van die vlerkspan om te verhoed dat druppels binne-in die vlerkpuntvortek beweeg.
- Die verskil in temperatuur tussen die nat- en droëboltermometer van 'n swaaihigrometer, moet nie 8 °C oorskry nie.
- Stop bespuiting indien die windspoed 15 km/uur oorskry.
- Stop bespuiting tydens turbulente, onstabiele en droë toestande gedurende die hitte van die dag.
- Bespuiting onder temperatuur inversie toestande (deur bo of binne die inversie laag te spuit) en/of hoë lugvog toestande (relatiewe humiditeit 80 % en meer) mag tot volgende probleme aanleiding gee:
  - verlaagde effektiwiteit aangesien die druppels as 'n wolk in die lug bly hang en moontlik verdamp (onvoldoende bedekking op teiken).
  - skade aan nie-teiken gewasse of sensitiewe areas as gevolg van wegdrywing van die spuitwolk na nie-teiken area.
- Verseker dat die Lugbespuitingsoperateur presies weet watter lande bespuit moet word.
- Dit is noodsaaklik om 'n versekering van die Lugbespuitingsoperateur te verkry dat aan al die bogenoemde vereistes voldoen sal word en dat data van belang in 'n logboek saamgevat is vir toekomstige verwysing.

GEWAS/PLAAG	DOSIS / 100ℓ WATER OF SOOS AANGEDUI	OPMERKINGS
<b>BOSBOU</b> Denne pou-oogmot larf	50 ml/ha	<b>Lugtoediening</b> Dien in 30 ℓ water per ha toe.
Wilger pou-oogmot larf	100 ml/ha	<b>Lugtoediening</b> Dien in 30 ℓ water per ha toe.
Wattleboom sakwurm	100 ml/ha	<b>Lugtoediening</b> Dien in 30 ℓ water per ha toe. Begin behandeling in November/Desember.
<b>ALLEGEWASSE</b> Snywurms	100 ml/ha 0.33 ml/100m planry  100 ml/ha	Die toe as 'n behandeling sodra plaag opgemerk word voor of na opkoms van gewas. Dra sorg dat die boonste 3cm van die grond klam is. Indien plaas weer voorkom, herhaal behandeling.  <b>Grondtoediening</b> Algehele bespuiting: dien in 300ℓ water per ha toe. Rybespuiting (300 mm breed): dien in ten minste 3ℓ water per 100 m ry toe.  <b>Lugtoediening</b> Dien in 30ℓ water per has toe

<p><b>APPELS &amp; PERE</b></p> <p>Kodlingmot Blaarroller</p> <p>Amerikaanse (Arika-) Bolwurm</p> <p>Gebande vrugte-kalander (Snuitekwer)</p>	<p>5 mℓ</p> <p>5 mℓ</p> <p>10 mℓ</p>	<p>Om die volume water waarin <b>FARMAG CYPERMETHRIN</b> per has toegedien moet word, te bepaal, lees "<b>GRONDOEDIENING: Volume water wat per hektaar in sagtevrugteboorde toegedien moet word</b>". Lees ook "<b>VERENIGBAARHEID</b>".</p> <p>Dien eerste bespuiting met 75% blomblaarval toe en herhaal elke 14 dae</p> <p>Dien as 'n korrektiewe behandeling toe maar nie vroeër as 75% blomblaarval nie. Lees "<b>Waarskuwing teen Amerikaanse (Afrika) bolwurm bestandheid</b>" onder '<b>WEERSTANDWAARSKUWING</b>'</p> <p>Die twee bespuitings toe, die eerste tydens 75% blomblaarval en herhaal 4 weke later. 'n Verdere hoë of lae volume bespuiting kan middel Januarie toegedien word om latseisoen skade te voorkom.</p>
<p><b>BOONTJIES</b> Amerikaanse (Arika-) bolwurm</p>	<p>150 mℓ/ha</p> <p>150 mℓ/ha</p>	<p><b>Grondtoediening</b> Dien in 300 ℓ water per ha toe. Verken landerye en indien nodig herhaal bespuiting.</p> <p><b>Lugtoediening</b> Dien in 30 ℓ water per ha toe. Lees "<b>Waarskuwing teen Amerikaanse (Afrika-) bolwurm bestandheid</b>" onder "<b>WEERSTANDWAARSKUWING</b>"</p>

<p><b>KATOEN</b></p> <p>Amerikaanse (Afrika) rooi-en-stekelbolwurms Vlekbesies Vals-(Plusia) landmeter</p>	<p>75 mℓ</p> <p>75 mℓ of 150 mℓ/ha</p> <p>87 mℓ of 175 mℓ/ha</p> <p>250 mℓ</p> <p>250 or 500 mℓ/ha</p> <p>250 or 500 mℓ/ha</p>	<p>Lees “<b>Waarskuwing teen Amerikaanse (Afrika-) bolwurm bestandheid</b>” onder “<b>WEERSTANDWAARSKUWING</b>”. Om te voldoen aan die beginsels van plaagbestuur en geïntegreerde beheermetodes word aanbeveel om <b>FARMAG CYPERMETHRIN</b> gedurende die vrugvormingperiode, vanaf hoofblom tot bolbars te gebruik, d.w.s. vanaf ongeveer 10 to 22 weke na opkóm van die gewas. Die gebruik van <b>FARMAG CYPERMETHRIN</b> is hoofsaaklike bedoel as 'n voorkomende Ehermaatreeël teen al die bolwurms gebaseer op gereelde weeklikse verkenning van landery of 'n gereelde spuitprogram met 7-dae tussenposes. Gewoonlik neem 'n spuitprogram aanvang aan die begin van die blomstadium, d.w.s. omtrent 6 weke na opkóm an die gewas. Van dan tot hoofblomperiode moet geregistreeerde nie piretroïed middels gebruik word.</p> <p><b>Weeklikse spuitprogram:</b> Voorkomende behandeling: Baseer toediening op verkenning van landerye. Verken 24 <b>FARMAG CYPERMETHRIN</b> toe wanneer ekonomiese drempel bereik of oorskry word en is vir Amerikaanse (Afrika-) bolwurm, 'n gemiddeld van 12 eiers of 5 larwes per plante; vir rooilbolwurm, 'n gemiddeld van 6 eiers of 2 larwes op 24 plante gedurende verkenning gevind word. Vlekbesies en valsslandmeter sal ook beheer word met bolwurmbespuittings.</p> <p><b>Grondtoediening</b> Toediening met spuitbalk en –punte. Dra sorg dat die plante deeglik bedek word. Gebruik 100ℓ spuitmengsel per ha op lante korter as 60cm. Vir groter plante vermeerder die hoeveelheid spuitmengsel geleidelik tot 200ℓ spuitmengsel per ha. Moet nie minder as 150 mℓ <b>FARMAG CYPERMETHRIN</b> per ha op volwasse katoen gebruik nie.</p> <p><b>Newelblaser</b> Gebruik die laer dosis op katoen korter as 60cm en die hoër as 60 cm. Moet ni minder as 150 mℓ <b>FARMAG CYPERMETHRIN</b> per ha op volwasse katoent toedien nie</p> <p><b>Lugtoediening</b> Dien in 30ℓ water per ha toe. Gebruik die laer dosis op katoen korter as 60cm en die hoër dosis op plante hoer as 60cm.</p> <p><b>Korrektiewe behandeling:</b> Dien as korrektiewe bespuiting toe om 'n bestaande infestatie te beheer, d.w.s. waar meer as 6 bolwurms per 24 plante tydens verkenning gevind word. Die latere ontwikkelingsstadia van die rooilbolwurm wat reeds in bolle gevestig is, sal nie effektief beheer word nie. Die sukses van 'n behandeling hang af van die toediening, digtheid van gewasloof, stand van plante en van die ontwikkelingstadia van die larwes. Laat 4 dae toe vir <b>FARMAG CYPERMETHRIN</b> om sy volle effek te bereik. 'n Korrektiewe toediening moet as 'n noodmaatreeël beskou word en daarna moet met 'n gereelde program voortgegaan word ongeag die ontwikkelingsstadium van die katoen.</p> <p><b>Grondtoediening</b> Toediening met spuitbalk en punte. Dra sorg dat die plante deeglik bedek word. Gebruik 100 ℓ spuitmengsel per ha op plante korter as 60cm. Vir groter plante vermeerder die hoeveelheid spuitmengsel geleidelik tot 200 ℓ spuitmengsel per ha. Moet nie minder as 500 mℓ <b>FARMAG CYPERMETHRIN</b> per ha op volwasse katoen toedien nie.</p> <p><b>Newelblaser</b> Gebruik die laer dosis op plante korter as 60 cm en die hoër dosis op lante hoër as 60 cm. Moet nie minder as 500 mℓ <b>FARMAG CYPERMETHRIN</b> op volwasse katoen toedien nie.</p> <p><b>Lugtoediening</b> Gebruik die laer dosis op plante korter as 60cm en die hoër dosis op lante hoër as 60cm. Moet nie minder as 500 mℓ <b>FARMAG CYPERMETHRIN</b> op volwasse katoen toedien nie. Die toe in 30ℓ water per ha.</p>
<p><b>DRUIWE (wyn en tafel)</b> Kalanders (snuittkewers)</p>	<p>10 mℓ</p>	<p>Dien sodra skade opgemerk word toe. Herhaal 3-4 weke later indien nodig. Kalanders (Snuittkewers) kom gewoonlik tussen middel Oktober tot middel November voor. Lees “<b>VERENIGBAARHEID</b>”</p>

<b>KOOLGEWASSE</b> Amerikaanse (Afrika-) bolwurm Ruitrugmottarf Blaaspootjies	10 mℓ	Verseker goeie benatting van plante. Begin spuit met eerste tekens van plaag. Herhall elke 10-14 dae. Lees <b>“Waarskuwing teen Amerikaanse (Afrika-) bolwurm bestandheid”</b> onder <b>“WEERSTANDWAARSKUWING”</b>
<b>GRONDBONE</b> Amerikaans (Afrika-) bolwurm	150 mℓ/ha  150 mℓ/ha	Begin spuit sodra eiers of larwes opgemerk word. Herhaal indien nodig.  <b>Grondtoediening</b> Dien toe in 300 ℓ water per ha toe.  <b>Lugtoediening:</b> Dien toe in 30ℓ water per ha. Lees <b>“Waarskuwing teen Amerikaanse (Afrika-) bolwurm bestandheid”</b> onder <b>“WEERSTANDWAARSKUWING”</b>
<b>LUSERN</b> Lusernruspe	75 mℓ/ha  75 mℓ/ha	Dien as 'n voldekbepuiting toe sodra plaag opgemerk word.  <b>Grondtoediening</b> Die toe in 300ℓ water per ha  <b>Lugtoediening</b> Die toe in 300ℓ water per ha
<b>MAKADAMIANEUTE</b> Stinkbesie	20 mℓ	Begin spuit wanneer neut albastergrootheid bereik en herhaal na 4 weke. Indien nodig, kan 'n verder bespuiting 4 weke later toegedien word. Maak egte seker dat daar ten minste 90 dae tussen hierdie laaste bespuiting en oes is.
<b>MIELIES &amp; SUIKERMIELIES</b> Amerikaanse (Afrika) bolwurm	1.5 mℓ / 100 m ry  150 mℓ / ha   3,5 mℓ / 100 m ry   350 mℓ / ha	Dien toe wanneer plaag opgemerk word. Sorg dat bespuiting betyds gedoen word, dit is, nie later as 80% baardverskyning nie en voordat die larwes die baard binnedring. Slegs larwes wat in aanraking met die sproei kom, sal beheer word. <b>Grondtoediening</b> Indien rywydte grondtoediening toelaat, gebruik in ten minste 3ℓ water per 100 m ry. Dra sorg dat die spuitpunte na die mieliekoppe gerig is. <b>Lugtoediening</b> Dien toe in 30ℓ water per ha. Lees <b>“Waarskuwing teen Amerikaanse (Afrika-) bolwurm bestandheid”</b> onder <b>“WEERSTANDWAARSKUWING”</b>  <b>Voorkomende behandeling</b> teen jong larwes gebaseer op verkenning vir eiers op plante. Verken landerye elke week van 2 tot 7 weke na opkom van gewas deur ten minste 100 plante ewekansig per landerye te ondersoek. Spuit 7 dae nadat eiers op 2,5% of meer van die plante gevind is. Indien die eiers al uitgeborei het, spuit sodra eerste tekens van infestasië opgemerk word. Rig bespuiting direk in die kelk in. Herhaal die toediening later in die seisoen indien verkenning aandui dat dit nodig is. Larwes wat reeds die stam binnedring het of langer as 10mm is, sal nie beheer word nie. <b>Grondtoediening</b> Moet nie in minder as 3ℓ water per 100m ry toedien nie. Om seker te maak dat goeie bedekking binne in die kelk in sowel as aan die sye van die plant verkry word, gebruik ten minste twee D4/35 of D6/35 spuitpunte oor 'n ry.  <b>Lugtoediening</b> Dien toe in 30ℓ water per ha.



<b>PERSKES</b>		Om die volume water waarin <b>FARMAG CYPERMETHRIN</b> per ha toegedien moet word, te bepaal, lees” <b>GRONDOEDIENING: Volume water wat per hektaar in saagte vrugteboorde toegedien moet word</b> ”.
Amerikaanse (Afrika-) bolwurm	5 mℓ	Dien toe as ‘n voldekbepuiting by 75% blomblaarval of wanneer plaag opgemerk word. <b>Lees “Waarskuwing teen Amerikaanse (Afrika-) bolwurm bestandheid” onder “WEERSTANDWAARSKUWING”</b>
Kodlingmot	5 mℓ	Dien ‘n volbedekking bespuiting toe by 75% blomblaarval. Herhaal met 14-21 dae tussenposes.
Valskodlingmot	5 mℓ	<b>Vroeëkultivars</b> Dien toe as ‘n voldekbepuiting 6 weke voor oes en herhaal met 14 dae tussenposes. <b>Laat kultivars</b> Dien toe as ‘n voldekbepuiting 8 weke voor oes en herhaal met 14 dae tussenposes In die somerreëvalgebied moet die eerste behandeling nie later as die derde week in Desember toegedien word ni. <b>Inmaakperskes</b> Soos hierbo, behalwe dat laaste 3 dae voor oes gespuit kan word.
Vrugtevlëë	10 mℓ	<b>Alle Kultivars</b> Dien ‘n voldekbepuiting 8 weke voor oes toe en herhaal met 14 dae tussenposes. Ingelegde perskes can tot 3 dae voor oes gespuit word.
Gebande vrugte-kalander (Snuikewer)	10 mℓ	Dien toe sodra skade opgemerk word en herhal indien nodig na 4 weke
<b>ERTJIES</b>		<b>Grondtoediening</b> Dien toe in 300 – 500 ℓ water. Herhaal indien nodig
Amerikaans (Afrika-) bolwurm	150 mℓ/ha	<b>Lugtoediening:</b> Dien toe in 30ℓ water per ha.
Kleinkommandowurm	150 mℓ/ha	<b>Lees “Waarskuwing teen Amerikaanse (Afrika-) bolwurm bestandheid” onder “WEERSTANDWAARSKUWING”</b>
<b>SORGHUM</b>		Spuit sodra plaag opgemerk word. Indien bolwurms binne versteek is, mag die beheer minder effektief wees. Latere infestاسies mag ‘n tweede bespuiting vereis.
Amerikaanse (Afrika-) bolwurm	1,5 mℓ / 100 m ry	<b>Grondtoediening</b> Rig toediening op are. Moet ni minder as in 3ℓ water per 100 m ry toedien nie.
Stronkboorder	150 mℓ / ha	<b>Lugtoediening</b> Dien toe in 30ℓ <b>Lees “Waarskuwing teen Amerikaanse (Afrika-) bolwurm bestandheid” onder “WEERSTANDWAARSKUWING”</b> Dien toe by kelkstadium wanneer haelskade waargeneem word en boorder nog nie in die stam inbeweeg het nie.
	3,5 mℓ / ha m ry	<b>Grondtoediening</b> Moet nie in minder as 3ℓ water per 100 m ry toedien nie. Om seker te maak dat goeie bedekking binne in die kelk en sowel as aan die sye van die plant verkry word, gebruik ten minste tweek D4/35 of D6/35 spuitpunte oor ‘n ry.
	350 mℓ/ha	<b>Lugtoediening</b> Dien toe in 30ℓ water per ha.

<p><b>TAMATIES</b> Amerikaanse (Afrika-) bolworm</p>	<p>15 ml  75 ml/ha  150 ml/ha</p>	<p><b>Grondtoediening</b> Dien as 'n voldekkbespuiting toe met eerste tekens van 'n infestasië. Herhaal met 7-10 dae tussenposes of soos nodig geag word met gewasinspeksie. <b>Hoë volume</b> Dien tot 500ℓ spuitmengsel toe op plante korter as 60cm en in 1 000ℓ of meer spuitmengsel toe op plante hoër as 60 cm by opgeleide tamaties. Moet nie meer as 150 ml <b>FARMAG CYPERMETHRIN</b> per ha toedien nie. <b>Newelblaser</b> Dien toe in 150ℓ water per ha op plante 60cm en korter. Dien toe in 500ℓ water per ha op plante 60cm en hoër. Moet nie meer as 150ml <b>FARMAG CYPERMETHRIN</b> per ha toedien nie. <b>Lees “Waarskuwing teen Amerikaanse (Afrika-) bolworm bestandheid” onder “WEERSTANDWAARSKUWING”</b></p>
<p><b>WEIDING</b> Kommandowurm</p>	<p>150 mlℓ/ha  150 ml/ha</p>	<p><b>Grondtoediening</b> Dien toe in 300ℓ water per ha <b>Lugtoediening</b> Dien toe in 30ℓ water per ha</p>
<p><b>SITRUS</b> Blaaspootjies  (a) Herinfestasië 4 tot 9 weke na blomblaarval na gebruik van enige ander geregistreerde behandeling OF (b) Herinfestasië middel November tot 20 Desember na gebruik van enige ander geregistreerde behandeling.</p>	<p>15 – 20 ml/100 ℓ water          5 – 7 ml/100 ℓ water</p>	<p>Nie vir gebruik in boorde waar rooidopluis onder biologiese beheer is nie.  Gebruik progressief laer dosisse hoe later herinfestasië voorkom gedurende die aangeduide periode. Dien as 'n ligte dekbespuiting toe. Benat blaardak tot die punt van afloop.  Gebruik progressief laer dosisse hoe later herinfestasië voorkom gedurende die aangeduide periode. Dien as 'n ligte dekbespuiting toe. Benat blaardak tot die punt van afloop.  Nota: Sien gebruiksbeperinge by sitrus onderaan tabel.</p>
<p><b>GEBRUIKSBEPERKINGE BY SITRUS</b></p> <ul style="list-style-type: none"> <li>• Beperk toediening tot 'n enkele bespuiting per seisoen en verkieslik in die periode 4 tot 9 weke na blomblaarval vir blaaspootjiebeheer of 5 tot 4 weke voor oes vir vlaskodlingmot beheer. Dien dus <b>FARMAG CYPERMETHRIN</b> slegs eenkeer per seisoen toe vir of blaaspootjie of vlaskodlingmot beheer.</li> <li>• Beperk gebruik tot boorde waar rooidopluis (<i>Aonideilla aurantii Mask</i>) onder kommersiële chemiese beheer is. Die gebruik van hierdie produk vir blaaspootjiebeheer mag die opbou van rooidopluis tot gevolg he.</li> <li>• Waar daar enige voorneme is om <b>FARMAG CYPERMETHRIN</b> te gebruik indien blaaspootjie besmetting voorkom gedurende die aangeduide periodes, dien 'n geregistreerde voorkomende behandeling vir rooidopluisbeheer vroeg in die lente en 'n tweede behandeling 7 tot 11 weke na blomblaarval toe. Moet nie op bome gebruik met 'n geskiedenis van Teranychid myt infestasië nie.</li> </ul>		

FARM:AG

# CYPERMETHRIN

Reg. No. / Nr L3207 Act No. 36 of 1947/ Wet Nr 36 van 1947

**INSECTICIDE**

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

**IRAC INSECTICIDE GROUP CODE****3****IRAC INSEKODER GROEPEKODE**

An emulsifiable concentrate contact and stomach insecticide for the control of agricultural pests as indicated.

'n Emulgeerbare konsentraat kontak- en maaginsekoder vir die beheer an landbouplae soos aangedui.

**ACTIVE INGREDIENT/AKTIEWE BESTANDEEL:**

Cypermethrin (pyrethroid) .....200 g/l..... sipermetriën (piretroïed)

**DANGER****Hazard Statements:**

Flammable liquid and vapour.  
Toxic if swallowed.  
Harmful in contact with skin or if inhaled.  
Causes skin irritation.  
May cause respiratory irritation.  
May cause damage to organs through prolonged or repeated exposure.  
Very toxic to aquatic life.  
Toxic to aquatic life with long lasting effects.

**Precautionary Statements:**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Do not breathe vapours, spray.  
IF SWALLOWED: Immediately call a poison center or doctor.  
IF ON SKIN: Wash with plenty of water  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
If skin irritation occurs: Get medical advice/attention.  
In case of fire: Use carbon dioxide (CO2), dry extinguishing powder, foam to extinguish.

Batch No:

D.O.M:

D.O.E:

Net Mass:

See reverse of packaging for details.

FOR FULL PARTICULARS SEE ATTACHED PAMPHLET.

VIR VOLLEDIGE BESONDERHEDE KYK AANGEHEGTE ETIKET.

UN No. / VR Nr: 3351

Poison Information Helpline (24 hrs): 0861 555 777



REGISTRATION HOLDER/ REGISTRASIEHOUER  
Castle Ag-Chem (Pty) Ltd.  
Reg. No. / Nr. 2007/033120/07  
61 Marshall Drive, Old Mill Industrial Park,  
Mount Edgecombe.  
Tel: (031) 003 3486

**BARCODE**

100450

