

## WARNINGS

**Hazard Statements:** Harmful if swallowed or inhaled. Causes serious eye damage. Toxic if inhaled. Very toxic to aquatic life with long lasting effects.

**PRE-HARVEST INTERVAL** – Allow the following time intervals between **APACHE GOLD 350 SC** application and harvest:

<b>Foliar application:</b>	Apples	- 70 days		
<b>Soil application:</b>	Broccoli	- 76 days	Brussel Sprouts	- 91 days
	Cabbage	- 93 days	Cauliflower	- 136 days
	Citrus	- 212 days	Cucurbits	- 100 days
	Grapes	- 112 days	Potatoes	- 120 days
	Tomatoes	- 23 days		

**NOTE:** The recommended withholding period between last application and harvest meets local residue requirements but may not meet export residue requirements. If the treated crop is intended for the export market, consult the relevant exporting authority regarding pre-harvest interval requirements before the application of this product.

**Re-entry:** Do not enter treated area within 1 day after treatment unless wearing protective clothing.

**Aerial application:** Notify all inhabitants of the immediate area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate adjacent areas, water-bodies and rivers. Refer to the SANS Code of Practice for the aerial application of agricultural chemicals.

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, 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 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

**Prevention:** Avoid breathing vapour. 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: Rinse mouth. Call a doctor if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison centre or doctor if you feel unwell. Collect spillage.

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

- Clean application equipment after use, dispose of wash water where it will not contaminate crops, grazing, waterways and dams.
- **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 the empty container by perforation and flattening and do not use for any other purpose.
- Prevent contamination of food, feedstuffs, drinking water and eating utensils.

# APACHE GOLD 350 SC

Reg. No. / Nr L9398 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**

**4A**

**IRAC INSEKTEGROEP**

A systemic suspension concentrate insecticide for the control of aphids, red scale, thrips, leafminers and psylla on citrus trees; aphids on potatoes, cucurbits, cruciferae and roses; mealybugs on grapes; woolly aphids on apples, whitefly on tomatoes and various insects as listed on Forestry.

'n Sistemiese suspensiekonsentraat insekdoder vir die beheer van plantluise, rooidopluise, blaaspootjies, blaarmyners en bladvlooië op sitrusbome, plantluise op aartappels, rose, pampoens- en kooldgewasse, witluise op druiwe, bloedluise op appels, witvlieë op tamaties en verskeie insekte soos aangetoon in Bosbou.

### ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL:

Imidacloprid (neonicotinoid).....350 g/l..... Imidacloprid (neonikotinoïed)



**DANGER**

#### Hazard Statements:

Harmful if swallowed or inhaled.  
Causes serious eye damage.  
Toxic if inhaled.  
Very toxic to aquatic life with long lasting effects.

#### Precautionary Statements:

Avoid breathing vapours.  
IF SWALLOWED: Immediately call a doctor or poison centre.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes.

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: 3082**



REGISTRATION HOLDER/ REGISTRASIEHOUER  
CASTLE AG-CHEM (Pty) Ltd  
Reg. Nr.: Reg. No. 2007/033120/07  
61 Marshall Drive, Old Mill Industrial Park,  
Mount Edgecombe, South Africa, 4300  
Tel: 031 003 3486

**Poison Information Helpline (24 hrs): 0861 555 777**



**BARCODE**

100218

## RELEVANT SUBSTANCES

NAME	PRODUCT IDENTIFIER
Imidacloprid 95% TC	CAS-No.: 138261-41-3
Humectant	CAS-No.: 56-81-5
tertiary-octylphenoxypoly(ethoxyethanol)	CAS-No.: 9036-19-5
Tristyrylphenol Ethoxylates	CAS-No.: 99734-09-5

## SYMPTOMS OF HUMAN POISONING

Apathetic state, depression, muscular tone, respiratory disturbances and trembling and muscular cramps in severe cases of poisoning.

## FIRST AID TREATMENT

Remove the patient from source of poisoning to a well-ventilated area and keep him/her quiet and reassured. Remove any contaminated clothing.

**SKIN** – Rinse the contaminated body area thoroughly with plenty of soap and water. Do not rub skin.

**EYES** – Flush contamination out of eyes with clean water for at least 15 minutes.

**INGESTION** – If swallowed, induce vomiting by tickling the back of the throat / uvula. Repeat until the vomit is clear and free from the smell of the insecticide. Administer artificial respiration or closed chest cardiac massage if necessary. Do not apply direct mouth to mouth respiration. Never give anything by mouth to an unconscious person.

## TAKE THE PATIENT TO THE NEAREST PHYSICIAN IMMEDIATELY.

Note to physician: Treat symptomatically. Monitor blood pressure and pulse rate frequently (bradycardia and hypotonia are possible). Provide supportive measures for respiratory and cardiac action. Give artificial respiration if signs of paralysis appear. Additional measures involve the elimination of the substance from the body or acceleration of its excretion (gastrolavage, saline laxatives, activated charcoal).

## RESISTANCE MANAGEMENT

For resistance management, **Apache Gold 350 SC** is a group code 4A insecticide. Any insect population may contain individuals naturally resistant to **Apache Gold 350 SC** and other group code 4A insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly and consecutively. These resistant insects may not be controlled by **Apache Gold 350 SC** or any other group code 4A insecticides.

To delay insecticide resistance:

- Avoid exclusive repeated and consecutive use of insecticides from the same insecticide group code. Alternate with products from different insecticide group codes.
- Do not apply **Apache Gold 350 SC** or any product that belongs to the same chemical group, more than once per year on citrus (bearing, non-breathing and nursery trees). Integrate with other control methods (chemical, cultural, biological) into insect control programs.

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

## MODE OF ACTION:

Acts as an antagonist by binding to postsynaptic nicotinic receptors in the insect central nervous system. Systemic insecticide with translaminar activity and with contact and stomach action. Readily taken up by the plant and further distributed acropetally, with good root-systemic action.

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

## Application information:

Do not apply to crops under stress. Apply to moist soil free from weeds and crops residues that can affect the distribution of the product on the soil surface. Do not apply through irrigation systems.

## Compatibility:

**Apache Gold 350 SC** is compatible with some pesticide formulations. Before applying any mixture test the mixture to ensure compatibility. Mixing instructions: Pour the required quantity of Apache 350 SC into the spray water and agitate continuously. Do not allow the **Apache Gold 350 SC** mixture to stand any length of time before using. Do not use brack or hard spray water.

**Aerial application:**

Aerial application may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of SANS Code 10118: 2009 (The Aerial Application of Pesticides). It is important to 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 are met:

- Volume: A minimum volume of 30ℓ spray mixture per hectare is recommended. As this product has been evaluated at the reduced volume rate, the registration holder cannot guarantee efficacy, or be held responsible for any adverse effects if this product is applied aurally at a lower volume rate than recommended above.
- Droplet coverage: 25 to 30 droplets per cm<sup>2</sup> must be recovered on the target.
- Droplet Size: a droplet spectrum with a VMD of 280 to 300 microns is recommended. Ensure that the production of fine droplets (less than 150 microns) is restricted to a minimum.
- Flying height: Maintain the height of the spray boom at 3 to 4 meters above the target. Do not spray when aircraft dives, is in a climb, at the top of during a dive, or when banking.
- Use suitable atomising equipment (hydraulic nozzles or rotary atomisers) that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product through drift.
- The operator must use a setup that will 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 droplet from entering the wingtip vortices.
- The difference in temperature between the wet and dry bulb thermometers of 3 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 for 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	REMARKS
<b>APPLES:</b> Woolly aphid <i>(Eriosoma lanigaeum)</i>	<b>SOIL DRENCH:</b>	Apply in 1 ℓ of water in a jug to the soil around the tree trunk base. The treated area should be free of weeds and mulch. Irrigate within 24 hours of application.
	1.0 mℓ per tree	Apply to trees up to 6 years old in September or within 3 weeks after flowering.
	3.0 mℓ per tree	Apply to 7 to 15 years old trees within 3 weeks of flowering.
<b>NOTES:</b> Do not apply to trees older than 15 years. Trees should be healthy, stress free and regularly irrigated before and after application. Any stress factor can reduce the effect of the treatment. Do not apply the soil drench treatment through the irrigation system.		

<p><b>CITRUS:</b>  <b>BEARING TREES UNDER 15 YEARS OLD</b>  (Excluding Kimquat)  Brown Aphid  (<i>Toxoptera aurantii</i>)  Red scale  (<i>Aonidiella aurantii</i>)  Psylla  (<i>Trioza erythrae</i>)</p> <p>Black Aphid  (<i>Toxoptera citricidus</i>)</p> <p><b>NON BEARING TREES</b>  Black Aphid  (<i>Toxoptera citricidus</i>)  Leafminer  (<i>Phyllocnistis citrella</i>)</p> <p><b>NURSERY SEEDLINGS</b>  Black Aphid  (<i>toxoptera citricidus</i>)  Leafminer  (<i>Phyllocnistis citrella</i>)</p> <p>Thrips (<i>Scirtothrips aurantii</i>)</p>	<p><b>SOIL DRENCH:</b></p> <p>9.0 mℓ per tree</p> <p>6.0 mℓ per tree</p> <p>6.0 mℓ per tree</p> <p>8.0 mℓ per tree</p> <p>1.5 mℓ per seedling</p> <p>3.0 mℓ per seedling</p>	<p>Apply during August to September at green tip to white bud tree growth stage. Dilute the required volume in 1 ℓ of water in a jug and apply to the soil around the tree trunk base. Irrigate within 24 hours of application.</p> <p>Lemon trees – remove all fruit, including immature fruit, before application. Pest control can only be expected on the first fruit set after application.</p> <p>Applying during August to September in 1ℓ of water in a jug and apply to the soil around the tree trunk base. Irrigate within 24 hours of application.</p> <p>Apply 2 days after transplanting grafted seedlings into plastic bags. Apply to the soil around the plant in 200mℓ water.</p>
<p><b>NOTES:</b>  Trees should be healthy, stress free and regularly irrigated before and after application. If applied to trees older than 15 years variable pest control with some crop damage may result.  Do not apply the soil drench treatment through any irrigation system.  Do not apply to trees immediately after pruning</p>		
<p><b>CRUCIFERAE:</b>  Cabbage Aphid  (<i>Brevicoryne brassicae</i>)</p>	<p>38 mℓ per 10 ℓ water</p>	<p>Apply 600 mℓ of the solution over seedlings in a tray containing 200 seedlings within 24 hours before transplanting.  Adjust the volume accordingly for other tray sizes.  Continually stir the mixture during mixing and application.</p>
<p><b>CUCURBITS:</b>  Aphids</p>	<p>20 mℓ per water  (200 mℓ per 100 l)</p>	<p>Apply 30 mℓ of the mixture to the planting hole before planting or on the surface around the plant immediately after planting. Follow-up aphid sprays may be necessary later in the season.</p>
<p><b>FORESTRY</b>  Eucalyptus transplants  &lt;1 year old  Foliar insects:  Psyllids (<i>Psyllida</i>), Gall wasps  (<i>Ophelimus maskelli</i>), Beetles  (<i>Heterostrychus brunneus</i>)  Soil insects: White grub  (<i>Scarabaeidae</i>), Cutworm  (<i>Agrotis</i>), Termites (<i>Macrotermes</i>  spp), Bark beetles (<i>Hylastes</i>  <i>angustatis</i>)</p>	<p>Dosage per tree:  1.5 mℓ product</p> <p>Dosage per hectare:  2.5 ℓ product</p>	<p>Apply as a drench in 1 litre water per plant at time of planting.</p>

<b>FORESTRY</b> Eucalyptus Breeding Orchard >1 year old Foliar insects: Psyllids ( <i>Psyllida</i> ), Gall wasps ( <i>Ophelimus maskelli</i> ), Beetles ( <i>Hetrobostrychus brunneus</i> )	Dosage per tree: 8.5mℓ product	Apply as a drench in 2 litres of water per tree as required.
<b>FORESTRY</b> Nursery seedlings	Dosage: 500mℓ product per 100 ℓ water	Apply 600mℓ solution per 200 seedlings
<b>GRAPES:</b> Mealybug ( <i>Planococcus ficus</i> )	1.5 mℓ per vine	Prepare a basin around the base of each vine to prevent run off. Apply in ½ ℓ water as a soil drench around the base of each vine at budburst. Immediately after application apply 2 ℓ clean water to the treated basin around each vine. Irrigate within 1 day of treatment. Apply to irrigated grapes only. Do not apply to grapes under stress. Ants in the crop must be controlled. Under certain conditions a follow up alternate treatment may be necessary.
<b>POTATOES:</b> Aphids ( <i>Myzus persicae</i> )	4.5 mℓ per 3 to 4 ℓ water per 100 m row	Pre-plant: prepare the planting furrow. Apply to the entire surface of the furrow before planting tubers and covering with soil. Post-plant: After planting and covering the tubers with soil, apply to the soil surface before the crop emerges. 15 mm rain or irrigation is necessary immediately after application. Do not spray tubers directly with the mixture.
<b>ROSES:</b> Aphids ( <i>Macrosiphum roasae</i> ) ( <i>Metapolophium porosum</i> )	5.0 mℓ per 10 ℓ water (4 to 6 weeks control)  10 mℓ per 10 ℓ water (season-long control)	Apply 1.0 ℓ of the mixture on the soil around the stem of each plant in spring or the first signs of infestation.  Irrigation within 24 hours after application. Repeat applications may be necessary depending on rainfall/irrigation and soil texture.
<b>TOMATOES:</b> White fly nymphs ( <i>Trialeurodes vaporariorum</i> ) for use in glasshouses and tunnels only	10 mℓ per 10 ℓ water	Apply 100 mℓ of the mixture to the soil around each plant 1 day after transplanting. Irrigate within 24 hours after application. Repeat 4 weeks later.



## WAARSKUWINGS

**Gevaarstellings:** Skadelik indien ingesluk of ingeasem word. Veroorsaak ernstige oogskade. Giftig indien ingeasem. Baie giftig vir waterlewe met langdurige effekte.

**ONTHOUDINGSPERIODE:** Laat die volgende interval tussen **Apache Gold 350 SC** toediening en oes.

<b>Blaarbespuiting:</b>	Appels	- 70 dae		
<b>Gondtoediening:</b>	Aartappels	- 120 dae	Blomkool	- 136 dae
	Broccoli	- 76 dae	Brusselse spruitjies	- 93 dae
	Druwe	- 112 dae	Kopkool	- 93 dae
	Pampoengewasse	- 100 dae	Sifrus	- 212 dae
	Tamaties	- 23 dae		

**Let wel:** Die aanbevole onthoudingsperiode tussen die laaste toediening en oes volden aan die vereistes vir plaaslike residuvlakke maar mag dalk nie voldoen aan die residuvereiste vir uitvoer nie. Indien doe behandelde gewas bestern is vir die uitvoermark, skakel met die betrokke uitvoorliggaam rekende onthoudingsperiodes voor toediening van hierdie produk.

- **Herbetreding:** Moet nie die behandelde gebied betree vir 1 dag na die bespuiting nie, tensy beskermende oorklere gedra word.
- **Lugbespuiting:** stel alle inwoners van die onmiddellike gebied wat bespuit gaan word in kennis en rig die nodig waarskuwings uit. Moenie oor water en aangrensende gebiede spuit nie en sorg dat spuitstofweg-drywing nie dergelike gebiede besoedel nie. Verwys ook na die SANS Gebruikskode vir lugtoediening van landbouchemikalieë.

**Alhoewel hierdie insektmiddel 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, vereëgbaarheid met ander stowwe wat nie op die etiket aangedui is nie en die voorkoms van weesrand van die plaag teen die betrokke insektmiddel sowel as die metode, tyd en akkuraatheid van toediening. Verder aanvaar die registrasiehouer nie verantwoordelikeheid vir skade aan gewasse, plantegroei, die omgewing of vir nadelige effek op mens of dier of vir 'n gebrek aan prestasie van die betrokke insektmiddel as gevolg van die 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

### Voorsorgstellings

**Voorkoming:** Vermo asemhaling van dampe. 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. Vermo vrylating na die omgewing. Dra beskermende handskoene, beskermende klere, oogbeskerming, gesigbeskerming.

**Reaksie:** INDIEN INGESLUK: Spoei mond. Bel 'n dokter as jy onwel voel. INDIEN INGESAEM: Verwyder persoon na vars lug en hou gemaklik om asem te haal. Bel dadelik 'n dokter. INDIEN IN OË: Spoei versigtig uit met water vir 'n paar minute. Verwyder kontaklense, indien teenwoordig en maklik om te doen. Gaan voort met spoel. Bel 'n gifsentrum of dokter as jy onwel voel. Versamel gemors.

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

- Maak spuitapparaat skoon na gebruik en raak onstlae van uitspoelwater waat dit nie gewasse, weiding, riviere en damme kan besoedel nie.
- **SPOEL die leë houër DRIEKEER UIT soos volg:** Keer die leë houër om oor die spuit- of mengtenk en dreineer vir ten minste 30 sekondes nadat die vloeitot drup verlangsaam het. Spoei die leë houër daarna drie keer agtereenvolgens uit met een kwart van die houervolume vars water en gooi die spelwater in die spuit- of mengtenk. Prik die drievoudig uitgespoelde houër deur en gooi weg via 'n goedgekeurde versamelelaar of herwinner ([www.cropilife.co.za](http://www.cropilife.co.za)). Moet nie die houër begrawe, verbrand of skenk aan enige ander partye wat dit as 'n houër vir kos of drank kan gebruik nie.
- Vernietig die leë houër deur gaas daarin te kap en plat te slaan en moet vir geen ander doel gebruik nie.
- Voorkom besoedeling van voedsel, voer, drinkwater en eetgerei.

## RELEVANTE STOWWE

NAAM	PRODUK IDENTIFISEERDER
Imidakloprid 95% TS	CAS-Nr.: 138261-41-3
Bevogtiger	CAS-Nr.: 56-81-5
Tersiëre-oktiefenoksiepolie (etoksie-etanol)	CAS-Nr.: 9036-19-5
Tristyrylfenol-etoksilate	CAS-Nr.: 99734-09-5

## SIMPOME VAN VERGIFTIGING

Apatiese toestand, verlaagde spierfunksie, asemhalingsversteurings, bewing, spierkrampe in gevalle van ernstige vergiftiging.

## NOODHULPBEHANDELING

Verwyder die pasiënt van die oorsaak van vergiftiging na 'n koel en goed geventileerde omgewing, stel hom/haar gerus en hou hom/haar stil. Verwyder besoedelde klere.

**Vel** - Spoel die besmette liggaamsdele met baie seep en koue water af. Moet nie die vel hard vrywe nie.

**Oë** - Besmette oë moet vir ten minste 15 minute met skoon water uitgespoel word.

**Inname** – Indien ingesluk is, insieer braking deur die agterste van die keel/uvula te prikkel met u vinger. Herhaal totdat braaksel helder is en nie langer na isektemiddel ruik nie pas kunsmatige asemhaling of geslote hartmassering toe indien nodding. Moet nie direkte mond-tot-mond asemhaling toepas nie. Moet nooit iets per mond aan 'n bewustelose persoon toedien nie.

## NEEM DIE PASIËNT ONMIDDELIK NA DIE NAASTE GENESHEER.

Nota aan genesheer: Behandel simptome. Monitor bloeddruk en polsslag (hartvertraging en hipotonia kan voorkom) en gee kunsmatige asemhaling indien verlamming intree. Maatreëls soos maagspoeling, soutpurgasie en geaktiveerde-houtskool om die insektermiddel uit die liggaam te verwyder kan gebruik word.

## WEERSTANDBESTUUR

**Apache Gold 350 SC** is 'n groeppode 4A insekdoder. Enige populasie van 'n spesifieke insek spesie mag individue sluit wat 'n natuurlike weerstand teen **Apache Gold 350 SC** of enige ander groeppode 4A insekdoder het. Indien hierdie insekdoders herhaaldelik aangewend word kan die weerstandbiedende individue uiteindelik die insekpopulasie oorheers. Hierdie weerstandbiedende insekte sal waarskynlik nie duer **Apache Gold 350 SC** of enige ander groeppode 4A insekdoder beheer word nie.

Om weerstand teen insekdoders te vertraag: Verminder die eksklusiewe en herhaaldelike gebruik van insekdoders in dieselfde insekdoder groeppode. Wissel af met produkte in verskillende insekdoder groeppodes. Moet nie **Apache Gold 350 SC** of enige produk wat aan dieselfde chemiese groep behoort meer as een keer per jaar op sitrus (draende, nie draende, nie draende en kwekery boompies) toedien nie. Integreer ander beheermaatreëls (chemiese, verbouing, biologies) in insekbeheer programme.

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

## WYSE VAN AKSIE

Tree op as 'n antagonist deur te bind aan postsinaptiese nikotienreseptore in die insek sentrale senuweestelsel. Sistemiese insekdoder met transaminêre aktiwiteit en met kontak- en maagwerking. Word gereedelik deur die plant opgeneem en verder akropetaal versprei, met goeie wortelsistemiese werking.

**GEBRUIKSAANWYSINGS:** Gebruik slegs soos aangedui

## Toediening

Moet nie op gewasse wat onder stremming lei toedien nie. Dien toe op klam grond vry van onkruid en plantreste wat produk verspreiding op die grondoppervlakte kan affekteer. Moet nie deur besproeiingsstelsels toedien nie.

## Verenigbaarheid

**Apache Gold 350 SC** is verenigbaar met sekere ander plaagdoders. Voordat enige mengsel gespuit word, moet verenigbaarheid bevestig word. Mengingsinstruksies: Voeg die nodige hoeveelheid **Apache Gold 350 SC** by die spuitwater terwyl dit aanhoudend geroeer word. Moet nie die **Apache Gold 350 SC** mengsel laat oorstaan vir enige periode voor gebruik nie. Moet nie brak – of harde – spuitwater gebruik nie.

## Lugtoediening

**Apache Gold 350 SC** kan slegs deur 'n geregistreerde lugbespuitingsoperateur met 'n korrek gekalibreerde, geregistreeerde vliegtuig volgens die instruksies van SANS KODE 10118: 2009 (Aerial Application of Agricultural Remedies) 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 Spuitmengselvolume van 30 ℓ/ha 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.
- **Druppelbedekking:** 25 tot 30 druppels per cm<sup>2</sup> moet op die teikenarea herwin word.
- **Druppelgrootte:** 'n druppelspektrum met 'n VMD van 280 tot 300 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 wanner die vliegtuig duik, styg of draai nie.
- Gebruik geskikte **atmoiseringsapparaat** wat die vereiste druppelgrootte en bedeking 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 binneste 60 tot 75 % van die vlerkspan om te verhoed dat druppels inne-in die **vlerkpuntvorteks** beweeg.
- Die verskill in temperatuur tussen die nat – en droëboltemometer van 'n swaaiingrometer moet nie 8°C oorskry nie.
- Stop bespuiting indien die **winspoed** 15 km/uur oorskry.
- Stop bespuiting tydens **turbulente**, onstabiele en droë toestande die hitte van die dag.
- Bespuiting onder temperatuur **inversie toestande** (deur bo of binne die inversie lag te spuit) en/of **hoe lugvogtoestand** (relatiewe humiditeit 80 % en meer) mag tot die volgende problem aanleiding gee:
  - verlaagde effektiwiteit aangesien die druppels as 'n wolk in die lug bly hang en moontlike 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 verskering van die lugbespuitingsoperateur te verkry data an al die bogenoemde vereistes voldoen sal word en dat data van belang in 'n logboek saamgevat is vir toekomstige verwysing.

GEWAS/PLAAG	DOSIS	OPMERKINGS
<b>APPELS:</b> Bloedluis ( <i>Eriosoma lanigaeum</i> )	<b>GRONDDEURDRENKING</b>	Dien toe in 1 ℓ in 'n beker op die grond om die grond op die basis van die boomstam. Die behandelde are moet vry van a deklaag en onkruid wees. Besproei binne 24 uur na toediening.
	1.0 mℓ per boom	Dien toe op bome tot 6 jaar oud in September o binner 3 weke no blom.
	3.0 mℓ per boom	Dien toe op 7 tot 15 jaar oue bome binne 3 weke na blom.
<b>NOTAS:</b> Moet nie op bome ouer as 15 jaar toedien nie. Bome moet gesond en stemmingsvry wees en gereeld besproei word en na toediening. Enige stremmingsfaktore kan die behandelingseffek verminder. Moet nie die grondbehandeling deur die besproeiingsstelsel toedien nie.		

<p><b>SITRUS:</b>  <b>DRAENDA BOME MINDER AS 15 JAAR OUD</b>  <i>(Uitsluitend koemkwa)</i>  Plantuis  <i>(Toxoptera aurantii)</i>  Roodoppluis  <i>(Aonidiella aurantii)</i>  Bladvlooi  <i>(Trioza erythrae)</i>  Plantuis  <i>(Toxoptera citricidus)</i></p> <p><b>NIE-DRAENDE BOME</b>  Plantuis  <i>(Toxoptera citridus)</i>  Blaarmyner  <i>(Phyllocnistis citrella)</i></p> <p><b>KWEKERY BOOMPIES</b>  Plantuis <i>(Toxoptera citridus)</i></p> <p>Blaarmyner <i>(Phyllocnistis citrella)</i></p> <p>Blaaspoottjie  <i>(Scirtothrips aurantii)</i></p>	<p><b>GRONDDEURDRENKING</b></p> <p>9.0 ml per boom</p> <p>6.0 ml per boom</p> <p>6 ml per boom</p> <p>8 ml per boom</p> <p>1.5 ml per saailing</p> <p>3.0 ml per saailing</p>	<p>Dien toe in Augustus tot September tydens groei – tot witblomknopgroei-stadium. Verdun die verlangde volume in 1 l water in 'n beker en dien toe op die grond om die basis van die boom-stam. Besproei binne 24 uur na toe diening.</p> <p>Suurlemon bome – verwyder al die vrugte, insluitend onvolwasse vrugte, voor behandeling. Plaag beheer kan slegs op die eerste vrugset na behandeling verweg word.</p> <p>Dien toe in Augustus tot Spetember in 1 l water in 'n beker en dien toe op die grond om die basis van die boomstam. Besproei binne 24 uur na toediening.</p> <p>Dien toe 2 dae na uitplant van gëente saailinge in plastieksakke. Dien to op die grond al om die plant in 200 ml water.</p>
<p><b>NOTAS</b>  Bome moet gesond en stemmingsvry wees en gereeld besproei word voor en na toediening.  Indien op bome ouer as 15 jaar toegedien word, mag wisselvallige plaagbeheer en moontlike gewas skade voorkom.  Moet nie die gronddeurdrenkingsbehandeling deur 'n besproeiingsstelsel toedien nie.  Moet nie toedien op pas gesnoeide bome nie.</p>		
<p><b>KOOLGEWASSE</b>  Koolplantuis  <i>(Brevicoryne brassicae)</i></p>	<p>38 ml per 10 l water</p>	<p>Dien 600 ml van die mengsel oor die saailinge in 'n saailaai wat 200 saailinge bevat binne 24 uur voor uitplanting. Pas die mengsel volume die ooreenkomstig aan vir ander saailaai groottes. Roer die mengsel aanhoudend gedurende meng en toediening.</p>
<p><b>PAMPOENGWASSE:</b>  Plantuise</p>	<p>20 ml per 10 l water  (200 ml per 100 l)</p>	<p>Dien 30 ml van die mengsel toe per plantgat voor plant of op die oppervlakte om die plant onmiddellik na plant. Opvolg plantuise bespuitings later in die seisoen mag nodig wees.</p>

<p><b>BOSBOU</b>  <b>Eucalyptus</b> Uitplant saailinge &lt; 1 jaar oud  Blaar insekte:  Bladvlooe (<i>Psyllidae</i>), Gall wespers (<i>Ophelimus maskelli</i>), Kewers (<i>Hetrobostrychus brunneus</i>)  <b>Soil insects:</b>  Miskruier larf (<i>Scarabaeidae</i>)  Snywurm (<i>Agrotis</i>), Termiete (<i>Macrotermes</i> spp)  Baskewer (<i>Hylastes angustatis</i>)</p>	<p><b>Dosis per boom:</b>  1.5 mℓ produk  <b>Dosis per hektaar:</b>  2.5 mℓ produk</p>	<p>Dien toe as a grond behandeling in 1 liter water per plant tydens plant.</p>
<p><b>BOSBOU</b>  <b>Eucalyptus</b> Teel Bord &gt;1 jaar oud  Blaarbespuiting insekte:  Bladvlooe (<i>Psyllidae</i>), Gall Wespers (<i>Ophelimus maskelli</i>), Kewers (<i>Hetrobostrychus brunneus</i>)</p>	<p><b>Dosis per boom:</b>  8.5 mℓ produk</p>	<p>Dien toe as a grond behandeling in 2 liter water per plant soos benodig.</p>
<p><b>BOSBOU</b>  Kwekery Saailinge</p>	<p><b>Dosis:</b> 500 mℓ produk per 100 ℓ water</p>	<p>Dien 600 mℓ oplossing per 200 saailinge.</p>
<p><b>DRUIWE:</b>  Witluis (<i>Planococcus ficus</i>)</p>	<p>1.5 mℓ per plant</p>	<p>Berei 'n vlak holte om die stam van elke wingerd om produk afloop te voorkom. Dien toe in 'n ½ ℓ water op die grond om die basis van elke wingerd met die begin van bot. volg onmiddellike op met 2L skoon water op die behandelde grond om elke wingerd. Besproei binne 1 dag na behandeling.  Dien slegs op besproeiings druiwe toe. Moet nie op druiwe wat onder stremming verkeer toedien nie. Miere moet in die wingerd beheer word. Onder sekere toestande sal 'n alternatiewe opvolgbespuiting nodig wees.</p>
<p><b>AARTAPPELS:</b>  Plantluis (<i>Myzus persicae</i>)</p>	<p>4.5 mℓ per 3 to 4 ℓ water per 100m ry</p>	<p>Voorplant: Berei die plantvoor. Dien op die volle plantvoor oppervlakte toe voordat die moere geplant word en met grond toegemaak is.  Naplant: Na plant en toemaak van die moere met grond, dien doe mengsel toe op die grondoppervlakte voor ge was opkoms. 15mm reën of besproeiing is nodig onmiddelik na toediening.  Moenie doe moere direk met die mengsel spuit nie.</p>
<p><b>ROSE:</b>  Plantluis (<i>Macrosiphum rosae</i>) (<i>Metapolophium pororum</i>)</p>	<p>5.0 mℓ per 10 ℓ water (4 tot 6 weke beheer)   10 mℓ per 10 ℓ water (seisoen – lange beheer)</p>	<p>Dien 1.0 ℓ van die mengsel op die grond om die stam van elke plant in die lente of die eerste tekens van besmetting.   Besproei binne 24 uur na toediening. Opvolg toedienings mag nodig wees afhange van reënval/besproeiing en grond tekstuur.</p>
<p><b>TAMATIES:</b>  Witlieg nimfe (<i>Trialeurodes vaporariorum</i>)  Slegs vir gebruik in glashuise en tunnels</p>	<p>10 mℓ per 10 ℓ water</p>	<p>Dien 100 mℓ van die mengsel toe op die grond om elke plant 1 dag na uitplanting. Besproei binne 24 uur na toediening. Herhaal 4 weke later.</p>



# APACHE GOLD 350 SC

Reg. No. / Nr L9398 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**

**4A**

**IRAC INSEKTEGROEP**

A systemic suspension concentrate insecticide for the control of aphids, red scale, thrips, leafminers and psylla on citrus trees; aphids on potatoes, cucurbits, cruciferae and roses; mealybugs on grapes; woolly aphids on apples, whitefly on tomatoes and various insects as listed on Forestry.

'n Sistemiese suspensiekonsentraat insekdoder vir die beheer van plantluise, rooidopluise, blaaspootjies, blaarmyners en bladvlouie op sitrusbome, plantluise op aartappels, rose, pampo-en kooldewasse, witluise op druiwe, bloedluise op appels, witvlieë op tamaties en verskeie insekte soos aangetoon in Bosbou.

### ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL:

Imidacloprid (neonicotinoid).....350 g/l..... Imidacloprid (neonikotinoïed)



**DANGER**

#### Hazard Statements:

Harmful if swallowed or inhaled.  
Causes serious eye damage.  
Toxic if inhaled.  
Very toxic to aquatic life with long lasting effects.

#### Precautionary Statements:

Avoid breathing vapours.  
IF SWALLOWED: Immediately call a doctor or poison centre.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes.

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: 3082



REGISTRATION HOLDER/ REGISTRASIEHOUER  
CASTLE AG-CHEM (Pty) Ltd  
Reg. Nr.: Reg. No. 2007/033120/07  
61 Marshall Drive, Old Mill Industrial Park,  
Mount Edgecombe, South Africa, 4300  
Tel: 031 003 3486

Poison Information Helpline (24 hrs): 0861 555 777



**BARCODE**

100218

165(H) x 140(W) mm

CYAN

MAG

YEL

BLK

100218