

COMPLETE 350 SC

Reg. No.: L 9024 Act /Wet No. 36 of/van 1947

A systemic suspension concentrate insecticide for the control of aphid, red scale, thrip, leaf miner and psylla on citrus trees; aphids on potatoes, cucurbits, tobacco and roses; tobacco slug on tobacco and whitefly on tomatoes.

'n Sistemiese suspensie konsentraat insekdoder vir die beheer van plantluis, rooidopluis, blaaspootjie, blaarmyner en bladvlooi op sitrusbome; plantluise op aartappels, pampoengewasse, tabak en rose; tabakslak op tabak en witvlieg op tamaties.

IRAC INSECTICIDE GROUP CODE:

4A

IRAC INSEKDODERGROEP KODE:

ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL:

Imidacloprid (chloro-nicotinyl) / Imidaklopried (chloro-nikotiniel) 350 g/l

Registration holder / Registrasiehouer:

ARYSTA LIFESCIENCE SOUTH AFRICA (PTY) LTD

Co. Reg. No. / Mpy. Reg. Nr.: 2009/019713/07

7 Sunbury Office Park, Off Douglas Saunders Drive

La Lucia Ridge,

South Africa, 4019

Tel: 031 5145600

Distributed under the trade mark PROTEK™ registered by Arysta LifeScience South Africa

Contents/Inhoud
(ℓ)



Batch No: / Lotnr:

Date of formulation / Formuleringsdatum:

UN number: 2902



**READ THE LABEL IN DETAIL BEFORE OPENING THE CONTAINER.
LEES DIE ETIKET VOLLEDIG VOORDAT DIE HOUE OOPGEMAAK WORD.**

For full particulars, see enclosed leaflet. / Vir volledige besonderhede, sien ingeslote pamflet.

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WARNINGS:

Withholding periods:

Allow the following minimum number of days between the last application and harvest:	
Citrus:	212 days
Cucurbits:	100 days
Potatoes:	120 days
Tobacco:	70 days
Brussels sprouts:	91 days
Broccoli:	76 days
Tomatoes:	23 days

NOTE:

The recommended withholding period between last application and harvest meets local residue requirements but may not meet export requirements. If the treated crop is intended for the export market, consult the relevant exporting body before application of the product with regard to pre-harvest interval requirements.

- Handle with care.
- Harmful when absorbed through the skin, swallowed or inhaled.
- Toxic to bees
- Toxic to fish and wildlife.
- Store in a cool place away from food and feedstuffs.
- Keep out of reach of children, uninformed persons and animals.
- Re-entry: Do not enter a treated area within one day after treatment unless protective clothing is worn.
- **In case of poisoning call a physician and make this label available to him/her.**
- **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 water and adjacent areas. Refer to the SANS 10118, "Aerial Application of Agricultural Pesticides" for the codes applicable for 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; 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:

- Do not inhale fumes.
- Wash contaminated clothing daily.
- Wash with soap and water after use or accidental skin contact.
- Do not eat, drink or smoke whilst mixing, applying or before washing hands and face.
- Clean applicator after use, dispose of wash water where it will not contaminate crops, grazing, rivers and dams.
- Triple rinse the empty container in the following manner: Invert the empty container over the spray tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse empty container three times with a volume of water equal to at least one tenth of that of the container and add the rinsing to the contents of the tank before disposing of the container in the prescribed manner.
- Destroy empty container by perforation and flattening and never re-use the empty container for any other purpose.
- Prevent contamination of food, feedstuffs, drinking water and eating utensils.

PRECAUTIONS FOR POLLINATORS

- Apply only after 100% petal fall for foliar applications.
- Do not apply when adjacent fields are flowering.
- All flowering weeds must be removed before making an application by either mowing, disking, mulching or applying a registered herbicide.
- DO not place hives in a treated field.
- Do not apply as a foliar spray when honey bees are active and prevent drift onto adjacent crops where honey bees may be active.

SYMPTOMS OF HUMAN POISONING:

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

FIRST AID TREATMENT:

Inhalation: Remove patient from source of poisoning to a cool and well ventilated area and keep him quiet and reassured.

Skin contact: Remove contaminated clothing and rinse contaminated body area thoroughly with plenty of soap and cold water. Do not rub skin.

Eye contact: Flush contamination out of eyes with clean water for 15 minutes or longer.

Ingestion: If swallowed induce vomiting by tickling the back part of the throat. Repeat until vomit fluid is clear and free from smell of poison. 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.

Immediately take the patient to the nearest physician.

NOTE TO PHYSICIAN:

Treat symptomatically. Check blood pressure and pulse rate frequently as brachycardia 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 e.g. gastrolavage and saline laxatives.

RESISTANCE WARNING:

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

To delay insecticide resistance:

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

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

DIRECTIONS FOR USE: Use only as indicated.

Compatibility:

- The compatibility of **COMPLETE 350 SC** with other agrochemicals is unknown.
- It is therefore recommended to do a compatibility test on a small scale before using **COMPLETE 350 SC** in a tank mixture with other agrochemicals.

Mixing Instructions:

- Pour the required quantity of **COMPLETE 350 SC** into the water while agitating.
- Do not allow the **COMPLETE 350 SC** mixture to stand any length of time before using.
- Do not use brackish water.

AERIAL APPLICATION:

Aerial application of **COMPLETE 350 SC** may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SANS 10118 (Aerial Application of Agricultural 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: 25 to 35 droplets per cm² must be recovered at the target area.
- Droplet size: A droplet spectrum with a VMD of 280 to 300 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.

APPLICATION DOSAGE RATES:

CROP / PEST:	DOSAGE RATE:	REMARKS:
CITRUS		Soil drench: Apply during August/September at green tip to white bud growth stage of the trees. Dilute in 1 litre water and apply around the base of the trunk with a jug. Irrigate within 24 hours after application.
Bearing Trees not older than 15 years (excluding Kumquat)		When used on lemon trees apply only after removal of all fruit (including immature fruit). With lemons control can only be expected on the first fruit set after application.
Aphid (<i>Toxoptera citricidus</i>), Red scale (<i>Aonidiella aurantii</i>) & Psylla (<i>Trioza erythrae</i>)	9 ml/tree	
Aphid (<i>Toxoptera citricidus</i>)	6 ml/tree	
Non-bearing Trees		Soil drench: Apply during August/September. Dilute in 1 litre water and apply around the base of the trunk with a jug. Irrigate within 24 hours after application.
Aphid (<i>Toxoptera citricidus</i>)	6 ml/tree	
Leaf miner (<i>Phyllocnistis citrella</i>)	8 ml/tree	
Nursery Trees		Soil drench: Dilute in 200 ml water and apply 2 days after transplanting of the grafted root stock seedlings into plastic bags. Ensure that the COMPLETE 350 SC application does not take place prior to grafting.
Aphid (<i>Toxoptera citricidus</i>) & Leaf miner (<i>Phyllocnistis citrella</i>)	1,5 ml/seedling	
Thrip (<i>Scirtothrips aurantii</i>)	3,0 ml/seedling	
NOTES: <ul style="list-style-type: none"> • Trees should be healthy, stress free and regularly irrigated before and after application. • Do not apply the soil drench treatment through the irrigation system. • Do not apply to trees immediately after pruning. 		
CUCURBITS		
Aphids (various spp.)	200 ml/100 l water	Apply 30 ml of the mixture per planting hole during planting or immediately after planting. Should aphids appear later in the season, apply additional sprays with suitable registered products.

CROP / PEST:	DOSAGE RATE:	REMARKS:
ROSES Aphids (<i>Macrosiphum rosae</i> & <i>Metopolophium porosum</i>)	0,5 ml/plant (for 4 to 6 weeks control)	Soil drench: Apply as a soil drench in spring or at the first signs of infestation. Mix 5 ml COMPLETE 350 SC with 10 litres water and apply 1 litre of this mixture on the soil around the base of the stem of each plant. Irrigate within 24 hours after application.
	1,0 ml/plant (for season-long control)	Soil drench: Apply as a soil drench in spring. Mix 10 ml COMPLETE 350 SC with 10 litres water and apply 1 litre of this mixture on the soil around the base of the stem of each plant. Irrigate within 24 hours after application. Follow-up applications may be necessary, depending on the amount of rainfall or irrigation and soil type.
POTATOES Aphid (<i>Myzus persicae</i>)	4,5 ml/100 m row length	Spray the COMPLETE 350 SC mixture in the planting furrow from ridge tip to ridge tip <u>before</u> planting of the tubers. Use a 8006 or 8008 flat fan nozzle and apply in 3 to 4 liters water per 100 metre furrow length. The application may also be made after planting but before emergence over the row. Irrigate immediately afterwards with \pm 15 mm water. COMPLETE 350 SC may also be used in a tank mixture with fenamiphos 400 EC or pencycuron 250 SC or with both for the simultaneous control of aphids, <i>Rhizoctonia</i> and nematodes.
	3,0 ml/100 m row length	When COMPLETE 350 SC is mixed with fenamiphos 400 EC, the COMPLETE 350 SC dosage can be reduced to 3,0 ml per 100 metres row length. Warning: when the above-mentioned mixtures are applied, the application should be in such a manner that the tubers are not covered by the spray mixture containing COMPLETE 350 SC . Apply in the open furrow <u>before</u> planting of the tubers.
TOBACCO Aphid (<i>Myzus persicae</i>) & Tobacco slug (<i>Lema bilineata</i>)	72 ml/100 l water	Apply 30 ml of the mixture per plant in the transplanting water or apply 30 ml of the mixture as a drench to the base of the plant at transplanting.
NOTE: Do not apply onto the crown (growth point) of the plant. Slug will be controlled for up to 8 weeks after treatment. Should it become a problem hereafter, apply other registered pesticides for its control.		

CROP / PEST:	DOSAGE RATE:	REMARKS:
<p>TOMATOES</p> <p>Whitefly nymph (<i>Trialeurodes vaporariorum</i>)</p> <p>For use on tomatoes in enclosed areas only, e.g. glass houses, tunnels, etc.</p>	<p>0,05 ml/plant</p>	<p>Soil drench:</p> <p>Apply as a soil drench, 1 day after transplanting. Mix 10 ml COMPLETE 350 SC with 20 litres water and apply 100 ml of this mixture to the soil around the base of the stem of each plant. Irrigate within 24 hours after application.</p> <p>Repeat application 28 days later.</p>