



# SHARDA IMIDACLOPRID 350 SC

Reg. No. L8442, Act No. 36 of 1947 | Reg. Nr. L8442, Wet Nr. 36 van 1947

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 and whitefly on tomatoes.

'n Sistemiese suspensie konsentraat insekdoder vir die beheer van plantluise, rooidopluise, blaaspootjies, blaarmyners en bladvlooië op sitrusbome; plantluise op aartappels, rose, pampoen- en koolgewasse; witluis op druie; bloedluise op appels en witvlieë op tamaties.

## INSECTICIDE GROUP CODE 4A

### ACTIVE INGREDIENT

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

Registration Holder | Registrasiehouer

Sharda International Africa cc

(Reg. No. 2006/186705/23)

P O Box 82021, Southdale 2135, RSA

Tel: 031 266 3264

Fax: 086 641 2325

## INSEKDODER GROEPKODE 4A

### AKTIEWE BESTANDEEL

Imidaklopried (neonikotinoïed).....350 g/ℓ

BATCH NUMBER LOT NOMMER	
DATE OF MANUFACTURE DATUM VAN VERVAARDIGING	

CONTENTS / INHOUD

# 5 ℓ

## UN No. / VN Nr. 2902

13105 © Sharda International Africa cc



**HARMFUL  
SKADELIK**



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### UN No. 2902

### WARNINGS

**Pre-harvest Interval:** Allow the following time interval between SHARDA IMIDACLOPRID 350 SC application and harvest. Foliar application: Apples - 70 days.

Soil application: Broccoli	- 76 days.	Brussels 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.

- Handle with care.
- Poisonous when absorbed through the skin or swallowed or inhaled.
- Toxic to fish and wildlife.
- Store in the original container in a cool place away from food and feedstuffs.
- Keep out of reach of children, uninformed persons and animals.
- In case of poisoning call a doctor and make label available to him/her.
- **Re-entry:** Do not enter the 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 insecticide 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 insecticide 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 insecticide 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

- Wear protective clothing (face mask, overall, gloves, boots) when mixing and applying this product.
- 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.
- Prevent contamination of food, feedstuffs, drinking water and eating utensils.
- Clean the applicator after use and dispose of wash water where it will not contaminate crops, grazing, rivers and dams.
- Rinse the empty container three times with a volume of water equal to at least one tenth of that of the container and add the rinsing water to the contents of the spray tank before disposing of the container in the prescribed manner.
- Destroy the empty container by perforation and flattening and do not use for any other purpose.

**Resistance Management:** For resistance management, SHARDA IMIDACLOPRID 350 SC is a group code 4A insecticide. Any insect population may contain individuals naturally resistant to SHARDA IMIDACLOPRID 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 SHARDA IMIDACLOPRID 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 SHARDA IMIDACLOPRID 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 with other control methods (chemical, cultural, biological) into insect control programmes. For specific information on resistance management contact the registration holder of this product.

### 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 cold 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 fluid 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 (gastro-lavage, saline laxatives, activated charcoal).

### DIRECTIONS FOR USE • USE ONLY AS INDICATED

**Application:** Do not apply to crops under stress. Apply to moist soil, free from weeds and crop residues that can effect the distribution of product on the soil surface. Do not apply through irrigation systems.

**Compatibility:** SHARDA IMIDACLOPRID 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 SHARDA IMIDACLOPRID 350 SC into the spray water and agitate continuously. Do not allow the SHARDA IMIDACLOPRID 350 SC mixture to stand for 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 (Aerial Application of Agricultural Remedies). 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 30 ℓ spray mixture 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** of 25 to 30 droplets per cm<sup>2</sup> must be recovered on the target.

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.

The **height of the spray boom** should be maintained at 3 to 4 metres above the target. Do not spray when aircraft is in a climb, at the top or 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.

All **nozzles/atomisers** should be positioned within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.

The difference between the wet and dry bulb **temperature** readings as determined by a whirling hygrometer, must not exceed 8°C.

Do not spray under **turbulent**, unstable conditions during the heat of the day when rising thermals and downdraughts occur. Do not spray under **temperature inversion** conditions (spraying in or above the inversion layer) and/or **high humidity conditions** (relative humidity of 80 % or more).

Do not spray if the **wind speed** is less than 3 km/h or exceeds 15 km/h.

Ensure that fields are accurately marked and 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 a logbook record of the application will be made.

APPLES	DOSAGE RATE	REMARKS
Woolly aphid ( <i>Eriosoma lanigenum</i> )	SOIL DRENCH  1.0 ml per tree 3.0 ml per tree	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. Apply to trees up to 6 years old in September or within 3 weeks after flowering. Apply to 7 to 15 year old trees within 3 weeks of flowering.
	FOLIAR SPRAY 60 ml/100 ℓ water (1.5 – 2.1 ℓ/ha in 2 500 – 3 500 ℓ water/ha)	Apply as a full cover high volume foliar spray during mid-December. Apply as a foliar spray to Golden Delicious, Granny Smith, Royal Gala and Top Red apples.

### NOTES:

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.

CITRUS	DOSAGE RATE	REMARKS
BEARING TREES UNDER 15 YEARS OLD (Excluding Kumquat) Brown Aphid ( <i>Toxoptera aurantii</i> ) Red scale ( <i>Aonidiella aurantii</i> ) Psylla ( <i>Trioza erythraea</i> ) Black Aphid ( <i>Toxoptera citricidus</i> )	SOIL DRENCH 9.0 ml per tree  6.0 ml per tree	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. Lemon trees – remove all fruit, including immature fruit, before application. Pest control can only be expected on the first fruit set after application.
NON-BEARING TREES Black Aphid ( <i>Toxoptera citricidus</i> ) Leafminer ( <i>Phyllocnistis citrella</i> )	SOIL DRENCH 6.0 ml per tree 8.0 ml per tree	Apply during August to September in 1 ℓ of water in a jug and apply to the soil around the tree trunk base. Irrigate within 24 hours of application.
NURSERY SEEDLINGS Black Aphid ( <i>Toxoptera citricidus</i> ) Leafminer ( <i>Phyllocnistis citrella</i> ) Thrips ( <i>Scirtothrips aurantii</i> )	SOIL DRENCH 1.5 ml per seedling  3.0 ml per seedling	Apply 2 days after transplanting grafted seedlings into plastic bags. Apply to the soil around the plant in 200 ml water.

### NOTES:

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.

CRUCIFERAE	DOSAGE RATE	REMARKS
Cabbage Aphid ( <i>Brevicoryne brassicae</i> )	38 ml per 10 ℓ water	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.

CUCURBITS	DOSAGE RATE	REMARKS
Aphids	20 ml per 10 ℓ water (200 ml per 100 ℓ)	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.

GRAPES	DOSAGE RATE	REMARKS
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 500 ml 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.

POTATOES	DOSAGE RATE	REMARKS
Aphids ( <i>Myzus persicae</i> )	4.5 ml per 3 – 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.

ROSES	DOSAGE RATE	REMARKS
Aphids ( <i>Macrosiphum rosae</i> ) ( <i>Metapolophium porosum</i> )	SOIL DRENCH 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. Irrigate within 24 hours after application. Repeat applications may be necessary depending on rainfall/irrigation and soil texture.

TOMATOES	DOSAGE RATE	REMARKS
White fly nymphs ( <i>Trialeurodes vaporariorum</i> ) For use in glasshouses and tunnels only.	SOIL DRENCH 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.

