


KOHINOR[®] 350 SC

Reg. no. L8447 Act/Wet 36 of/van 1947
N-AR 0784, W130927

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

GROUP	4A	INSECTICIDE
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<p>A systemic suspension concentrate insecticide for the control of various insects on crops as listed as well as the suppression of sugarcane thrips.</p>	<p>'n Sistemiese suspensiekonsentraat-insekdoder vir die beheer van verskeie insekte op gewasse soos aangedui asook die onderdrukking van suikerrietblaaspootjies.</p>
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 <p>WARNING</p>	<p>Hazard statements Very toxic to aquatic life with long lasting effects.</p> <p>Precautionary statements Avoid release to the environment. Collect spillage.</p>
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ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL

imidacloprid (neonicotinoids) 350 g/L imidakloprid (neonikotinoïed)

NET VOLUME/NETTO VOLUME

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REGISTRATION HOLDER/REGISTRASIEHOUER

ADAMA South Africa (Pty) Ltd;
Reg. no. 1992/001741/07
Ground Floor, Simeka House
The Vineyard Office Estate, 99 Jip de Jager Drive
Bellville, 7530
T: +27 21 982 1460
infocpt@adama.com

IN CASE OF POISONING, CALL THE FOLLOWING NUMBERS:

Griffon Poison Information Centre:
+27 82 446 8946 or
Tygerberg Poison Information Centre:
+27 861 555 777

EMERGENCY NUMBER:

SPILL TECH: +27 86 100 6366 or +27 83 253 6618

UN no.: 3082

Batch number
Date of manufacture
Expiry date

Lotnommer
Datum van vervaardiging
Vervaldatum



GHS information

WARNINGS

- Very toxic to aquatic life with long lasting effects.

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

Broccoli	76 days
Brussel sprouts	91 days
Cabbage	93 days
Cauliflower	136 days
Citrus	212 days
Cucurbits	100 days
Grapes	112 days
Macadamia, pecan nuts, cashew nut, almond, hazel nut, pistachio nut	200 days
Persimmons	112 days
Pomegranates	112 days
Potatoes	120 days
Sugarcane	163 days
Tobacco	70 days
Tomatoes	23 days

Note: The local maximum residue levels (MRLs) will not be exceeded if **KOHINOR® 350 SC** is used according to the label instructions. However, ADAMA South Africa (Pty) Ltd cannot be held responsible if export MRLs are exceeded. The local export marketing bodies must be consulted regarding application timing, withholding periods and specific tolerances of countries that produce will be exported to.

- Handle with care.
- Store in a cool, dry and well-ventilated place away from direct sunlight.
- Keep in the original container, tightly closed and under lock and key.
- Store away from food, feedstuffs, seed and fertilizers.
- In case of poisoning call a doctor and make this label available to him/her.
- **Re-entry:** Do not enter treated field within 1 day after application unless wearing protective clothing.
- Do not apply product by aerial application.

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 to 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, and the environment or harm to humans or animals, 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

- | |
|---|
| <ul style="list-style-type: none"> • Keep out of reach of children. • Avoid release to the environment. • Collect spillage. • Dispose of contents/container in accordance with national regulation. |
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- Do not inhale fumes or spray mist.
 - Avoid contact with the skin and eyes.
 - Wear a face shield, rubber boots, and rubber gloves when handling the undiluted product and during application.
 - Remove contaminated clothing and wash daily.
 - Wash immediately with soap and water after accidental skin contact and use.
 - Do not eat, drink or smoke while mixing or applying this product or before hands and face have been washed.
 - Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times in succession with a volume of water equal to a minimum of 10% of that of the container and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za).
 - Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages.
 - Prevent the contamination of food, feedstuffs, drinking water and eating utensils.

RELEVANT SUBSTANCES

Chemical name	w/w %	CAS no.
Imidacloprid	30–60%	138261-41-3
Oxirane, methyl-, polymer with oxirane, monobutyl ether	< 10%	9038-95-3



FIRST AID

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

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

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

Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

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

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

Ingestion: Call a poison control center or medical practitioner immediately for treatment advice. If conscious, rinse mouth thoroughly with water. Drink plenty of water. Never give anything by mouth to an unconscious or convulsing person. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomit, rinse mouth and administer more water. Get medical attention immediately if symptoms occur.

TOXICOLOGICAL INFORMATION

Antidotes

None known. Treat symptomatically.

Symptoms of human poisoning

None known.

MODE OF ACTION

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

RESISTANCE WARNING

For the purpose of resistance management, **KOHINOR® 350 SC** is classified as a group code 4A insecticide. Any insect population may contain individuals naturally resistant to **KOHINOR® 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 **KOHINOR® 350 SC** or any other group code 4A insecticide.

To delay insecticide resistance:

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

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

DIRECTIONS FOR USE

Use only as directed.

NOTICE TO THE USER: This agricultural remedy is to be used only according to the directions of this label. It is an offense under the Act to use this product inconsistent with the directions on the label.

Mixing instructions

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

Compulsory conditions for the use of **KOHINOR® 350 SC** in grape vines

- The application of **KOHINOR® 350 SC** for the control of mealy bug must be preceded by a registered product at the registered rate for the control of mealy bug during winter in the dormant period.
- May only be used in vines under irrigation. Vines must be healthy and free of stress at application and must be irrigated on a regular basis.
- Do not apply through irrigation water.
- Apply on moist soil. Leaves, weeds and other plant rests must be removed before application as it can be detrimental to leaching.
- Inspect treated vines on a regular basis during the growing season. If necessary, a registered product may be applied as a corrective treatment for the control of mealy bug.
- Effective control of ants is necessary to protect the natural parasites and predators of mealy bug.

APPLICATION RATES

CROP AND TARGET	DOSAGE	REMARKS
<p>Apples</p> <p>Woolly aphid (<i>Eriosoma lanigerum</i>)</p>	<p>Soil application</p> <p>Trees up to 6 years old: 1.0 ml/tree</p> <p>Trees up to 15 years old: 3.0 ml/tree</p>	<p>Apply in September or within 3 weeks after flowering.</p> <p>Apply the KOHINOR® 350 SC in 1 L of water to the soil directly around the base of the tree trunk. The application area should be free of weeds and mulch. Irrigate within 24 hours after application to wash the product into the soil. Will also suppress woolly aphid on the roots.</p>
<p>Citrus (excluding kumquat)</p> <p>Bearing trees not older than 15 years</p> <p>Aphid (<i>Toxoptera citricidus</i>)</p> <p>Red Scale (<i>Aonidiella aurantii</i>) en</p> <p>Psylla (<i>Trioza erytreae</i>)</p> <p>Aphid (<i>Toxoptera citricidus</i>)</p>	<p>Soil drench</p> <p>9 ml/tree</p> <p>6 ml/tree</p>	<p>Apply during August/September at green tip to white bud growth stage of the trees. Dilute the required volume in 1 L of water and apply around the base of the trunk with a jug. Irrigate within 24 hours after application. When applied in lemons all fruit (even small immature fruit) should be removed. In lemons control can only be expected on the first fruit set after application.</p> <p>Aphids only. Apply during August/September at green tip to white bud growth stage of the trees. Dilute the required volume in 1 L of water and apply around the base of the trunk with a jug. Irrigate within 24 hours after application. When applied in lemons all fruit (even small immature fruit) should be removed. In lemons control can only be expected on the first fruitset after application.</p>
<p>Non-bearing trees</p> <p>Aphid (<i>Toxoptera citricidus</i>)</p> <p>Leafminer (<i>Phyllocnistis citrella</i>)</p>	<p>Soil drench</p> <p>6 ml/tree</p> <p>8 ml/tree</p>	<p>Apply during August/September in 1 L of water and apply around the base of the trunk with a jug. Irrigate within 24 hours after application.</p>
<p>Nursery trees</p> <p>Aphid (<i>Toxoptera citricidus</i>)</p> <p>Leafminer</p>	<p>Soil drench</p> <p>1.5 ml/seedling</p>	<p>Apply in 200 ml water 2 days after transplanting of the grafted rootstock seedlings into plastic bags.</p>



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CROP AND TARGET	DOSAGE	REMARKS
(<i>Phyllocnistis citrella</i>) Thrips (<i>Scirtothrips aurantii</i>)	3.0 ml/seedling	Ensure that the KOHINOR® 350 SC application does not take place prior to grafting.
Note: 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. Do not apply KOHINOR® 350 SC or any other product from the same chemical group, more than once per year in citrus (bearing, non-bearing and nursery trees).		
Cucurbits Aphids (Various spp.)	200 ml/100 L water	Apply 30 ml of the mixture per planting hole during planting or immediately after planting. Additional aphicidal sprays may be necessary later in the season should aphids appear.
Cruciferae Cabbage aphid (<i>Brevicoryne brassicae</i>)	380 ml/100 L water	Apply 600 ml of the KOHINOR® 350 SC suspension per polystyrene seedling tray as a drench over the plants not more than 24 hours prior to transplanting. Note: The above application rates are recommended per polystyrene seedling tray containing 200 seedlings. The seedling trays referred to are those with standard outside dimension of 673 x 342 mm. Application rates can be proportionally reduced for seedling trays containing less than 200 seedlings. The mixture should be stirred thoroughly before and during application to ensure an even application.
Macadamia, pecan nut, cashew nut, almond, hazel nut and pistachio nut Thrips (<i>Scirtothrips aurantii</i>)	Soil drench 18 ml/tree	Apply the KOHINOR® 350 SC in 2 L of water to the soil directly around the base of the tree trunk during the flowering period (from the start of flowering up to full bloom). The application area should be free of weeds and mulch. Irrigate within 24 hours after application to wash the product into the soil. Do not apply the soil drench treatment through the irrigation system. Aphids present will also be controlled.
Persimmons Mealy bug (<i>Pseudococcus longispinus</i>)	Soil drench 9 ml/tree	Apply the KOHINOR® 350 SC in 2 L of water to the soil directly around the base of the tree trunk from full bloom to 75% petal drop. The application area should be free of weeds and mulch. Irrigate within 24 hours after application to wash the product into the soil. Do not apply the soil drench treatment through the irrigation system.



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CROP AND TARGET	DOSAGE	REMARKS
Pomegranates Mealy bug (<i>Pseudococcus longispinus</i>)	Soil drench 9 ml/tree	Apply the KOHINOR® 350 SC in 2 L of water to the soil directly around the base of the tree trunk from full bloom to 75% petal drop. The application area should be free of weeds and mulch. Irrigate within 24 hours after application to wash the product into the soil. Do not apply the soil drench treatment through the irrigation system.
Potatoes Aphids (<i>Myzus persicae</i>)	Soil application 4.5 ml/100 m row	Spray the KOHINOR® 350 SC mixture in the planting furrow from ridge-tip to ridge-tip before planting of the tubers. Use 8006 or 8008 flat fan nozzle and apply in 3.0–4.0 L water/100 m furrow length. The application may also be made, after planting but before emergence, over the row. Irrigate immediately afterwards with \pm 15 mm water.
Roses Aphids (<i>Macrosiphum rosae</i> and <i>Metopolophium porosum</i>)	Soil drench 0.5 ml/plant (for 4–6 weeks control) 1.0 ml/plant (for season-long control)	Apply as a soil drench in spring or at the first signs of infestation. Mix 5 ml KOHINOR® 350 SC with 10 L water and apply 1 L of this mixture on the soil around the base of the stem of each plant. Irrigate within 24 hours after application. Apply as a soil drench in spring. Mix 10 ml KOHINOR® 350 SC with 10 L water and apply 1 L 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.
Sugarcane (Plant cane) Suppression of thrips (<i>Fulmekiola serrata</i>)	 1 L/treated ha	Warnings DO NOT leave KOHINOR® 350 SC exposed to sunlight. DO NOT apply more than once per season. Furrow application at planting (September to November): Apply KOHINOR® 350 SC to the plant furrow (single application only) in 200–300 L water/ha. A flat fan nozzle is recommended. Cover immediately.
Table and wine grapes Mealybug (<i>Planococcus ficus</i>)	Soil drench 1.5 ml/vine	Apply at budburst as a soil drench. Make a shallow hole around the base of the stem to prevent run-off of the mixture and apply to the shallow hole 1.5 ml product diluted in 500 ml water per vine. Immediately follow up with 2 L clean water. Irrigate within 24–48 hours after application. SEE



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CROP AND TARGET	DOSAGE	REMARKS
		COMPULSORY CONDITIONS REGARDING THE APPLICATION IN GRAPE VINES.
Table and wine grapes (continue) Leafhoppers (<i>Mgenia</i> spp.)	Soil drench 1.5 ml/vine	For the control of the vectors of Aster yellows disease: Apply in September, when monitoring indicates the presence of leafhoppers, as a soil drench. Make a shallow hole around the base of the stem to prevent run-off of the mixture and apply to the shallow hole 1.5 ml product diluted in 500 ml water per vine. Immediately follow up with 2 L clean water. Irrigate within 24–48 hours after application. Repeat application after 1 year. SEE COMPULSORY CONDITIONS REGARDING THE APPLICATION IN GRAPE VINES.
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.
Tomatoes Whitefly nymphs (<i>Trialeurodes vaporariorum</i>) For use on tomatoes in enclosed areas e.g. glasshouses, tunnels, only.	Soil drench 0.05 ml/plant	Apply as a soil drench 1 day after transplanting. Mix 10 ml KOHINOR® 350 SC with 20 L 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. Repeat application 28 days later.

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