

# KOINOR 350 SC

L8562 – Act 36 of 1947 / N-AR 0784  
IRAC INSECTICIDE GROUP CODE 4A

Active Ingredient: Imidacloprid (chloronicotinyl) 350 g / ℓ  
Registration Holder: MAKHRO HOME AND GARDEN (PTY) LTD (2014/283523/07)



Office No: 021 981 4011  
21 Viben Street, Brackenfell  
**Technical advise: 082 562 5330**  
**Medical Emergency: 0861 555 777**

## WARNINGS:

**Withholding periods:** (Minimum number of days which should be allowed between the last application and harvest)

Broccoli.....	76 days	Brussel sprouts.....	91 days
Cabbage.....	93 days	Cauliflower.....	136 days
Citrus.....	212 days	Cucurbits.....	100 days
Tomatoes.....	23 days		

Note: The local maximum residue levels (MRLs) will not be exceeded if KOINOR® 350 SC is used according to the label instructions. However, Makhro SA (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.
- Poisonous when inhaled, swallowed or absorbed through the skin.
- Toxic to fish and wildlife.
- Store in a cool, dry 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 this label available.

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 disease 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:

- Keep out of reach of children.
- Avoid release to the environment.
- Collect spillage.
- Dispose of contents/container in accordance with national regulation.
- Do not inhale fumes.
- Wash with soap and cold water after use or after accidental skin contact.
- Wash contaminated clothing.
- 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.
- Rinse empty container three times with a volume of water equal to at least one tenth of that of the container and add the rinsings to mixture before disposing of the container in the prescribed manner.
- Destroy empty container by perforation and flattening and never re-use for any other purpose.
- Clean applicator after use and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.

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

### Symptoms of human poisoning:

May be irritating to mucous membranes, eyes and skin. Inhalation may cause coughing, shortness of breath, bronchospasm, chemical pneumonitis and lung oedema. Ingestion may cause nausea, vomiting, stomach ache and diarrhoea.

### First aid treatment:

**Inhalation:** Remove victim to fresh air and keep warm and at rest. If breathing is difficult give oxygen. If not breathing give artificial respiration.

Get medical attention immediately.

**Ingestion:** Do not induce vomiting. Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention if necessary.

**Skin contact:** Remove contaminated clothing and wash all exposed skin area with soap and cold water, followed by a warm water rinse.

**Eye contact:** Wash out with plenty of water. Consult an eye specialist if necessary.

### Note to physician:

There is no known specific antidote. Treat symptomatically and give supportive therapy.

## DIRECTIONS FOR USE

Use only as indicated.

### Mixing Instructions:

- Pour the required quantity of KOINOR 350 SC into the water while stirring continuously.
- Do not allow the mixture to stand for any length of time before using.
- Do not use brackish water.

## APPLICATION RATES:

CROP / PEST	DOSAGE RATE	REMARKS
<b>CITRUS (excluding Kumquat)</b> Aphids ( <i>Toxoptera citricidus</i> )  Red Scale ( <i>Aonidiella aurantii</i> )  Psylla ( <i>Trioza erythraea</i> )  Leafminer ( <i>Phyllocnistis citrella</i> )	16 ml / 1 ℓ water / tree	At the green tip to white bud growth stage in August / September, apply as a soil drench treatment. Use a watering can or a jug to pour the mixture around the base of the trunk. Irrigate within 24 hours.  <b>When applied to lemon trees, all fruit (including small, immature fruit) should first be removed.</b> Control can only be expected on the first fruit set after application in this crop.  Trees should be healthy and stress-free prior to application. Irrigate regularly both before and after treatment. Do not apply through the irrigation system. Do not apply immediately after pruning. Control on trees older than 15 years may be reduced due to a decrease in the uptake of the product.
<b>CONIFER TREES</b> Conifer aphid	<b>Trees shorter than 2.0m in height:</b> 2 ml / 1 ℓ water / tree  <b>Trees taller than 2.0m but shorter than 2.5m in height:</b> 4 ml / 2 ℓ water / tree  <b>Trees taller than 2.5m but shorter than 3.0m in height:</b> 8 ml / 4 ℓ water / tree  <b>Trees taller than 3.0m:</b> 16 ml / 8 ℓ water / tree	Preventative treatment: Annual treatments in April/May of each year are recommended to prevent the die-back of trees from infestations of conifer aphid. Apply as a soil drench treatment. A watering can may be used to pour the mixture around the base of the conifer trees. Repeat the treatment after 60 days.  Curative treatment: At the first signs of infestation, apply as a soil drench treatment. Use a watering can to pour the mixture around the base of the conifer trees. Repeat the treatment after 60 days.  Trees should be healthy and stress-free prior to application. Irrigate regularly both before and after treatment.
<b>CRUCIFERAE</b> Cabbage aphid ( <i>Brevicoryne brassicae</i> )	3.8 ml / 1 ℓ water	Apply 600 ml of the KOINOR 350 SC suspension per polystyrene seedling tray as a drench over the plants not more than 24 hours prior to transplanting.  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.
<b>CUCURBITS</b> Aphids ( <i>Vibius</i> spp.)	18 ml / 5 ℓ water	During or immediately after planting, apply 30 ml of the mixture per planting hole. Should aphids re-appear later in the season, additional sprays may be necessary taking into account the 100 day waiting period between the last application and harvest.
<b>GARDEN</b> Ants	0.5 ml / 0.5 ℓ water / nest entrance	At the first signs of a nest entrance being actively used by ants, treat the area with 500 ml of the mixture per nest entrance. Pour the solution directly into and/or immediately around the hole or crack.
<b>LAWNS</b> Mole crickets ( <i>Gryllotalpa africana</i> )	20 ml / 10 ℓ water / 400 m <sup>2</sup>	Preventative treatment: Annual treatments at the end of October are recommended to prevent mole cricket outbreaks. Apply as an overall application and irrigate within 24 hours. Do not mow the lawn until after irrigation or rainfall. Repeat the treatment after 60 days.  Curative treatment: At the first signs of infestation, apply as an overall application and then irrigate within 24 hours. Do not mow the lawn until after irrigation or rainfall. Repeat application if and when necessary.  Mole crickets larger than 15 mm will not be effectively controlled by KOINOR 350 SC.
<b>ROSES</b> Aphids ( <i>Macrosiphum rosae</i> & <i>Metopolophium porosum</i> )	2 ml / 1 ℓ water / bush	At the first signs of infestation, apply as a soil drench treatment. Use a watering can to pour the mixture around the base of the rose bushes. Repeat the treatment every 60 days.  Trees should be healthy and stress-free prior to application. Irrigate regularly both before and after treatment.
<b>TOMATOES (In enclosed areas only e.g. glasshouses etc.)</b> Whitefly nymphs ( <i>Trialeurodes vaporariorum</i> )	0.05 ml / plant	Within a day of transplanting, apply as a soil drench treatment. Mix 1 ml KOINOR 350 SC with 2 ℓ water and apply 10 ml of this mixture around the base of the stem of each plant. Irrigate within 24 hours. Repeat the treatment after 28 days.

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L8562 – Wet 36 van 1947 / N-AR 0784  
IRAC INSEKODODERGROEPPKODE 4A

Aktiewe Bestanddeel: Imidakloprid (chloronikotiniel) 350 g / ℓ  
Registrasiehouer: MAKHRO HOME AND GARDEN (PTY) LTD (2014/283523/07)



Kantoor Nr: 021 981 4011  
Vibenstraat 21, Brackenfell  
**Tegniese advies: 082 562 5330**  
**Mediese nood: 0861 555 777**

## WAARSKUWINGS:

**Onthoudingsperiodes:** (Minimum aantal dae tussen laaste toediening en oes)

Broccoli.....	76 dae	Brusselse spruitjies.....	91 dae
Kopkool.....	93 dae	Blomkool.....	136 dae
Sitrus.....	212 dae	Pampoengewasse.....	100 dae
Tamaties.....	23 dae		

Nota: Die plaaslike maksimum residuevlakke (MRL's) sal nie oorskry word nie as KOINOR® 350 SC gebruik word volgens die etiketinstruksies. Makhro SA (Pty) Ltd kan egter nie verantwoordelik gehou word as uitvoer-MRL's oorskry word nie. Die plaaslike uitvoermarkorganisasies moet geraadpleeg word oor aansoektydsberekening, wagperiodes en spesifieke toleransies van lande wat uitgevoer sal word.

- Hanteer versigtig.
- Giftig indien ingesam, deur die vel geabsorbeer of deur die mond ingeneem word.
- Giftig vir vis en wild.
- Bewaar in 'n koel, droë plek weg van voedsel en voer.
- Hou buite bereik van kinders, oningeligte persone en diere.
- In geval van vergiftiging ontbied 'n geneesheer en toon etiket aan hom.

**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 bergingstoestande, kwaliteit van verdunningswater en die voorkoms van weerstand van die plaag teen die betrokke middel, sowel as die metode, tyd en akkuraatheid van toediening. Verder aanvaar die re-gistrasiehouer nie verantwoordelikheid vir skade aan gewasse, plantegroei, die omgewing of vir die nadelige effek op mens of dier of vir 'n gebrek aan prestasie van die betrokke middel as gevolg van die versuim van die gebruiker om etiket aanwysings 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:

- Hou buite bereik van kinders.
- Vermoë vrystelling na die omgewing.
- Versamel gemors.
- Gooi inhoud/hour weg ni coreenstemming met nasionale regulasies.
- Vermoë die inaseming van dampe.
- Was met seep en koue water na gebruik of toevallige velkontak.
- Was besoedelde klere.
- Moenie eet, drink of rook tydens vermenging, toediening of voordat hande en gesig gewas is nie.
- Voorkom besoedeling van voedsel, voer, drinkwater en eetgerei.
- Spoel die leë houer drie keer uit met 'n volume water wat gelykstaande aan ten minste 10% van die volume van die houer is en gooi die spoelwater in die spuittenk.
- Vernietig die leë houer deur gate daarin te maak en plat te druk. Moet vir geen ander doel hergebruik nie.
- Maak spuitapparaat skoon na gebruik en raak ontslae van uitspoelwater waar dit nie gewasse, weiding, riviere en damme kan besoedel nie.

CHEMIESE NAAM	W / W %	CAS no.
Imidacloprid	30 - 60%	138261-41-3
Oxirane, methyl-, polymer with oxirane, monobutyl ether	< 10%	9038-95-3

## NOODHULP

### Simptome van menslike vergiftiging:

Mag irriterend wees vir slymvliese, oë en vel. Inaseming mag hoes, kort van asem, bronchospasma, chemikale pneumonitis en long oedema veroorsaak. Indien mondeliks ingeneem kan naarheid, vomering maagkrampe en diaaree voorkom.

### Noodhulpbehandeling:

**Inaseming:** Verwyder persoon na vars lug en hou hom warm en rustig. Indien asemhaling moeilik is, gee suurstof. Indien asemhaling ophou, pas kunsmatige asemhaling toe. Kry mediese behandeling.

**Inname:** Moet nie braking veroorsaak nie. Moet nooit enige iets per mond vir 'n bewustelose persoon ingee nie. Was mond uit met water. Kry mediese behandeling.

**Velkontak:** Trek besoedelde klere uit en was met groot hoeveelhede koue water en seep. Indien nodig kry mediese behandeling.

**Oogkontak:** Indien dit per ongeluk in die oë beland was uit met lopende skoon water vir ten minste 15 minute. Kry mediese behandeling indien nodig.

### Nota aan geneesheer:

Daar is geen spesifieke teenmiddel nie. Behandel simptome en gee ondersteunende terapie.

## GEBRUIKSAANWYSINGS

Gebruik slegs soos aangedui.

### Menginstruksies:

- Voeg die nodige hoeveelheid **KOINOR 350 SC** by die water terwyl dit geroer word.
- Moet nie die mengsel laat oortaan voor gebruik nie.
- Moenie brak water gebruik nie.

## TOEDIENINGSHOEVEELHEDE:

GEWAS / PLAAG	DOSIS	OPMERKING
<b>SITRUS (uitsluitend Koemkwat)</b> Plantluise ( <i>Toxoptera citricidus</i> )  Rooidopluis ( <i>Aonidiella aurantii</i> )  Bladvlooi ( <i>Trioza erythraea</i> )  Blaarmyner ( <i>Phyllocnistis citrella</i> )	16 ml / 1 ℓ water / boom           <b>Bome 2.0m en kleiner in hoogte:</b> 2 ml / 1 ℓ water / boom  <b>Bome hoër as 2.0m maar laer as 2.5m in hoogte:</b> 4 ml / 2 ℓ water / boom  <b>Bome hoër as 2.5m maar laer as 3.0m in hoogte:</b> 8 ml / 4 ℓ water / boom  <b>Bome hoër as 3.0m:</b> 16ml / 8 ℓ water / boom	Dien tussen die groenpunt- en witblomknopstadium in Augustus/September toe deur met 'n gieter die mengsel eweredig om die stam van die boom te versprei. Besproei binne 24 uur na toediening.  <b>In die geval van suurlemoene moet alle vrugte (selfs klein onvolwasse vrugte) voor toediening verwyder word.</b> Beheer in suurlemoene kan verwag word net met eerste vrug set.  Toediening moet geskied op stremming vrye bome. Gereelde besproeiing van bome is noodsaaklik. Moet nie deur die besproeiing-sisteem toedien nie. Moet nie op pas gesnoeide bome toedien nie. Beheer op bome ouer as 15 jaar mag nie voldoende wees nie.  Voorkomende toediening: Om die terug sterf van bome as gevolg van plantluis besmetting te voorkom word 'n jaarlikse toediening gedurende April/Mei aanbeveel. Dien as 'n grond deurdrinking toediening om die stam van die boom met behulp van 'n gieter toe. Herhaal hierdie toediening 60 dae na die eerste toediening.  Korrektiewe behandeling: Dien toe sodra die eerste tekens van plantluis waargeneem word. Gebruik 'n gieter om die mengsel eweredig om die stam van die boom toe te dien. Herhaal hierdie toediening 60 dae na die eerste toediening.  Toediening moet geskied op stremming vrye bome. Gereelde besproeiing van bome is noodsaaklik.
<b>KONIFERE</b> Konifeer plantluis	<b>Bome 2.0m en kleiner in hoogte:</b> 2 ml / 1 ℓ water / boom  <b>Bome hoër as 2.0m maar laer as 2.5m in hoogte:</b> 4 ml / 2 ℓ water / boom  <b>Bome hoër as 2.5m maar laer as 3.0m in hoogte:</b> 8 ml / 4 ℓ water / boom  <b>Bome hoër as 3.0m:</b> 16ml / 8 ℓ water / boom	Voorkomende toediening: Om die terug sterf van bome as gevolg van plantluis besmetting te voorkom word 'n jaarlikse toediening gedurende April/Mei aanbeveel. Dien as 'n grond deurdrinking toediening om die stam van die boom met behulp van 'n gieter toe. Herhaal hierdie toediening 60 dae na die eerste toediening.  Korrektiewe behandeling: Dien toe sodra die eerste tekens van plantluis waargeneem word. Gebruik 'n gieter om die mengsel eweredig om die stam van die boom toe te dien. Herhaal hierdie toediening 60 dae na die eerste toediening.  Toediening moet geskied op stremming vrye bome. Gereelde besproeiing van bome is noodsaaklik.
<b>KOOLGEWASSE</b> Koolplantluis ( <i>Brevicoryne brassicae</i> )	3.8ml / 1 ℓ water	Dien 600 ml van die KOINOR 350 SC suspensie per polistireen saai laai toe as 'n gieter behandeling oor die saailinge nie meer as 24 uur voor uitplant nie.  Bogenoemde toedienings hoeveelhede word aanbeveel per polistireen saai laai wat 200 saailinge bevat. Die saai laaie waarna verwys word is die waarvan die standaard buite afmetings 673 x 342 mm is. Toedienings-hoeveelhede kan verminder word vir saai laaie wat minder as 200 saailinge bevat. Die mengsel moet deeglik geroer word voor en tydens toediening om egalige toediening te verseker.
<b>PAMPOENGWASSE</b> Plantluise (Verskeie spp.)	18 ml / 5 ℓ water	Dien 30 ml van die mengsel tydens plant of direk daarna per plant gat toe. Indien plantluise later in die seisoen voorkom mag addisionele bespuiting nodig wees met inagneming van die 100 dae onthoudings periode tussen laaste toediening en oes.
<b>TUINE</b> Miere	0.5 ml / 0.5 ℓ water / nesingange	Met die eerste tekens van mier aktiwiteit by 'n nes ingang, dien 500 ml van die mengsel per nes ingang toe. Gooi die mengsel direk in die nes ingang en om die nes ingang.
<b>GRASPERKE</b> Molkriekie ( <i>Gryllotalpa africana</i> )	20 ml / 10 ℓ water / 400 m <sup>2</sup>	Voorkomende bespuiting: Aan die einde van Oktober word 'n jaarlikse behandeling aanbeveel om molkriekuitbrake te voorkom. Dien toe as 'n algehele toediening en besproei binne 24 uur. Moet nie die gras sny voordat die gras besproei is of voordat dit gereën het nie. Herhaal die toediening na 60 dae.  Korrektiewe bespuiting: Dien as 'n algehele toediening toe sodra die eerste tekens van besmetting waargeneem word. Besproei binne 24 uur na toediening. Moet nie die gras sny voordat besproeiing of reënval plaasgevind het nie. Indien nodig, herhaal die toediening.  Molkriekie groter as 15mm sal nie effektief deur <b>KOINOR 350 SC</b> beheer word nie.
<b>ROSE</b> Plantluise ( <i>Macrosiphum rosae</i> & <i>Metopolophium porosum</i> )	2 ml / 1 ℓ water / bos	Dien toe sodra die eerste plantluise opgemerk word. Dien as 'n grond deurdrinking toe deur met 'n gieter die mengsel eweredig om die stam van die roosboom te gooi. Hierdie toediening kan elke 60 dae herhaal word.  Toediening moet geskied op stremming vrye bome. Gereelde besproeiing van bome is noodsaaklik.
<b>TAMATIES (Alleenlik in bedekte areas bv. glashuise ens.)</b> Witvlieg nimfe ( <i>Trialeurodes vaporariorum</i> )	0.05 ml / plant	Dien binne een dag na uitplant toe deur middel van 'n grond deurdrinking. Meng 1 ml <b>KOINOR 350 SC</b> met 2 ℓ water en dien 10 ml van hierdie mengsel rondom die basis van elke stammetjie toe. Besproei binne 24 uur na toediening. Herhaal hierdie toediening 28 dae later.