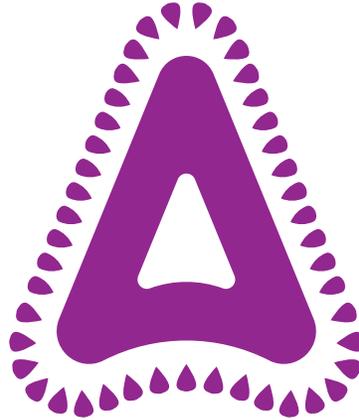




# KOHINOR

GUARANTEE: Imidacloprid 200g/L, SL

A systemic Insecticide for use In ornamentals, coffee, tobacco, sugarcane, vegetables, citrus and agroforestry against sucking pests, termites and other Important pests.



INSECTICIDE



FLAMMABLE LIQUID WHO Class III



IRRITANT



SCAN FOR WEBSITE



Commercial and Agricultural class  
Registration number: UGC/2012/000968/IN/R

READ LEAFLET BEFORE USING • KEEP OUT OF REACH OF CHILDREN

1 Liter

# ADAMA

ESSENTIALS



CAUTION



# ADAMA



## **GENERAL INFORMATION**

Kohinor 200 SL is a highly effective systemic insecticide against sucking insects and other important insect pests. Among the sucking pests are aphids, white flies, plant and leafhoppers, thrips (except certain *Frankliniella* species), scales, mealy bugs, plant bugs, Psyllids.

The active ingredient, imidacloprid, which belongs to a chemical class of insecticides called chloronicotinyls, provides additional control of fruit fly, bean fly, leaf miners, termites, soil beetles and other insect pests.

Kohinor 200 SL can be applied to plants as a foliar spray, stem paint, basal stem spray or soil drench via drip irrigation. When handled correctly according to good agricultural practice, Kohinor 200 SL is suitable for use in integrated pest management programmes. The soil application of Kohinor 200 SL (via drench and drip irrigation) is the safest method for reducing the impact on beneficial insects.

## **MODE OF ACTION**

Imidacloprid acts by interfering with the transmission of nerve impulses in insects. It stimulates certain nerve cells by acting on a receptor protein. The products prolonged action disrupts the operation of the insect nervous system, which results in death. The action mechanism of imidacloprid differs not only from that of the organophosphorus compounds and carbamates (both of which are acetyl cholinesterase).

## **Preparation of Soil Drench Mixture and Application Method**

Mix the required amount of Kohinor 200 SL in sufficient water to uniformly cover the area being treated. Apply not less than 11t. of the solution per square metre around the base of the tree, directed to the root zone beneath the drip line. Remove mulch, plastic or weed barrier material that will stop solution reaching the root zone. Exposing the roots of the tree by breaking the soil surface or digging a trench will enhance the uptake of Kohinor 200 SL. For optimum control, apply during the rainy period or irrigate thoroughly to incorporate Kohinor 200 SL into the upper soil profile within 24 hours after application.

Addition of nitrogen containing fertilizer, where applicable, in the chemical solution will enhance the uptake of Kohinor 200 SL. Avoid runoff or paddling of excessive irrigation water following application. Avoid application of Kohinor 200 SL to areas which are water logged or saturated, which will not allow penetration into the plant root zone.



CROP	INSECT PEST	APPLICATION RATE	TIMING/REMARKS
Coffee	Coffee leaf miner (Leucoptera meyricki) Fried egg scale (Aspidiotusspp).	1.5 ml per litre of water per tree 3.0 ml per litre of water per tree	Soil drench along the drip of each tree. Apply at the onset of rains or irrigate after application to facilitate uptake, it should be applied 6-8 weeks before the peak occurrence of the pest season. Pre-harvest interval - 35 days.
Ornamentals (Roses, carnations, Eustoma spp., hypericum, etc)	Aphids, whiteflies, thrips	Soil drench: 0.3-0.5 ml per 4 lt. of water per m2.  Foliar spray: 0.5 ml per lt. of water, 50 ml per 100 lt. of water or 500 ml per ha	Apply at first signs of infestation through drip irrigation (soil drench). Apply at first signs of infestation as a full cover foliar spray as ornamental species and varieties may differ in their sensitivity to chemicals, tolerance test should always be carried out before large scale application is undertaken
Agroforestry, nurseries of trees	Soil pests Termites	2 ml per lt. of water per tree	Apply as soil drench in the nursery bed or tree around the tree base.
Anthills / Mounds	Termites	2.5 ml per lt of water or 25 ml in 10 lt of water	Drive a rod into the anthill to clear the opening. Drench the mound with at least 10 lt. of Kohinor 200 SL solution. The amount of solution depends on the size of the mound.
Sugarcane (field)	Terrace Castle ants (Termites)	1.7 ml in 3.5 it of water per colony	Soil drench application
Seed cane (cane stees) treatment	Termites	500 ml per 660 litres of water to treat 35 tonnes of seed cane.	Dipping of cane setts.
Tobacco (nursery stage) Tobacco (field)	Aphids Whiteflies Aphids Whiteflies	2 ml in 4 lt of water perm <sup>2</sup> , 0.037 ml per plant or 580 ml per hi	Soil drench application immediately after sowing. One application as a soil drench immediately after transplanting seedlings in the field. Allow 70 days between application and harvest.



**Preparation of Spray/Banding Mixture:** Fill the spray tank/container with half the required amount of water and add the required amount of Kohinor 200 SL. Fill the spray tank to the level with water and mix to uniformity.

**Compatibility:** Kohinor 200 SL is compatible with commonly used pesticides and foliar fertilizers.

**Crop Tolerance:** Kohinor 200 SL is well tolerated by all crops tested at the recommended rates when applied as soil or foliar treatment but users are advised always to check for crop safety by treating a few plants first before large scale application is undertaken on ornamental crops.

**Resistance Management:** To prevent resistance alternation of Kohinor 200 SL with products with different modes of action is recommended. If one additional late season application is necessary for insect control, Kohinor 200 SL treatment should be followed with a product from another chemical class. In cases where more than two applications against one pest species are required, a block application of Kohinor 200 SL is recommended.

#### **RE-ENTRY PERIOD**

After the spray mixture has dried in greenhouse and 12 hours after spraying in the field.

#### **HAZARDS/PRECAUTIONS**

**Handling:** Wear protective clothing: overalls, footwear, gloves, face shield when using the product. Do not eat, drink or smoke when working with the product. Avoid, breathing the spray mist, contact with skin, eyes and clothing. Do not apply upwind and stay out of the spray mist.

**After work:** Wash hands before breaks and at end of work. Change clothes and wash hands and face with soap and water thoroughly. Wash the spraying equipment and any contaminated clothing carefully.

**Storage:** Keep out of reach of children. Store in tightly closed original container in a cool dry well ventilated place, under lock and key so that unauthorized persons do not have access. Keep away from food, drinks and animal feeding stuffs.

**Container Disposal:** Empty container completely. Triple rinse empty containers and drain the rinse water into spray tank and spray onto fallow (non crop) land.

Puncture or crash rinsed container to make it unusable. Dispose of empty container in a landfill site approved for pesticides or bury away from water sources. Do not re-use empty container for any other purpose.

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**Accidental Release Measures:** Wear protective clothing when dealing with spillage. Prevent entry into drains, water or soil. Soak up the spilled product with absorbent material - dry soil, sawdust or sand. Collect contaminated materials into closable marked container for safe disposal. Clean spill area with water and place used cleaning materials into closable containers to avoid any contamination of water supplies, surface water and drains. Dispose of safely the spilled chemical. Consult the supplier/manufacturer where larger quantities of the product have to be disposed of or if safe disposal is not possible.

### **ENVIRONMENTAL HAZARDS**

Kohinor 200 SL is toxic to bees. If applied as a soil drench there is no risk to bees or other beneficial insects. To avoid damage to bee populations, foliar treatments should not be applied during flowering of the target crop. Aquatic organisms are not expected to be endangered when Kohinor 200 SL is used as recommended. Do not contaminate surface water and ditches with chemical or used container disposal.

### **FIRST AID INSTRUCTIONS**

In case of suspected poisoning, remove the victim from the danger zone, remove contaminated or soaked clothing immediately.

**Skin contact:** Wash the skin immediately with plenty of water and soap.

**Eye contact:** Rinse eyes thoroughly with running water.

**If swallowed:** Seek medical advice immediately.

### **TOXICOLOGICAL INFORMATION**

**Symptoms of Poisoning:** Symptoms of poisoning are similar to those caused by nicotine poisoning and include apathy, myatonia, difficult breathing, and tremor.

**Antidote:** There is no known specific antidote.

**Treatment:** Treat symptomatic and supportively to reinforce breathing and heart activity. Additional therapeutic measures may be elimination of the active ingredient from the body or acceleration of excretion through use of gastric lavage, saline laxatives, and activated charcoal.

**Contra-Indications:** Do not give milk and alcoholic drinks which favour absorption.



**NOTICE TO USERS:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use or store a pest control product under unsafe conditions.

**WARRANTY:** Seller's guarantee is limited to the terms set out on the label and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

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**Approved by:**

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The Republic of Uganda