



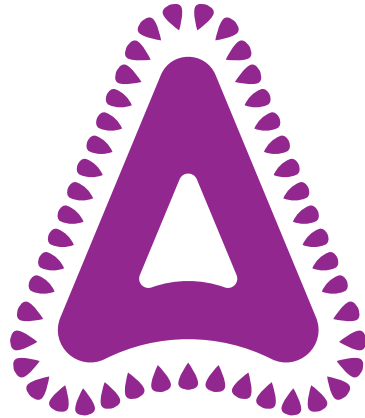
# KOHINOR

GUARANTEE (DHAMANA):  
Imidacloprid 200g/L, 200 SL

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

Dawa iliyo na utaratibu wa kupenya  
na kuingia kwenye mimea na kuwaua  
wadudu wanaofyonza, mchwa na  
kadhalika inatumika kwenye mimea ya  
mapambo, kahawa, mboga, michungwa,  
tumbako na miwa.

OPEN HERE



INSECTICIDE



FLAMMABLE  
LIQUID  
WHO Class III



IRRITANT  
HUWASHA



SCAN FOR  
WEBSITE



Commercial and Agricultural class • Kwa biashara na kilimo  
REGISTRATION NO. (NAMBA YA USAJILI): IN/0292

READ LEAFLET BEFORE USING • KEEP OUT OF REACH OF CHILDREN  
SOMA KIBANDIKO KABLA YA KUTUMIA • WEKA MBALI NA WATOTO

5 Liter

97101355D/201410  
97070629D/201410

# ADAMA

ESSENTIALS



CAUTION



# ADAMA



### **MAELEZO YA KAWAIDA**

Kohinor 200 SL ni dawa iliyo na nguvu na utaratibu wa kupenya ndani ya mimea ili kuilinda dhidi ya wadudu wa aina nyingi ambao hufyonza mimea. Kati ya wadudu wanaoangamizwa na imidacloprid iliyo kwenye Kohinor 200 SL ni wa aina ya aphids, inzi weupe, planthoppers, leafhoppers, thrips (isipokuwa wengine kati ya Frankliniella spp), scales, mealy bugs, plant bugs na psyllids.

Imidacloprid ni mmoja wapo ya kikundi cha madawa ya wadudu wa chloronicotinyls. Dawa hii pia huangamiza fruit fly, bean fly, leaf miners, mchwa, soil beetles, na wadudu wengine wanaoishi kwenye mchanga.

Kohinor 200 SL inaweza kutumiwa kama dawa ya kunyunyizia mimea, kupaka kwenye tako la mti au kuloweshwa kwenye mchanga kwa kutumia njia ya kilimo cha umwagiliaji kama vile drip irrigation. Dawa ya Kohinor 200 SL inaweza kutumiwa kwenye kilimo cha IPM.

### **INAVYO FANYA KAZI**

Imidacloprid hufanya kazi kwa njia tofauti na madawa mengine ya 'organophosphorus, carbamate' au 'pyrethroids'. Kwa hivyo dawa ya imidacloprid huua wadudu ambao hawauwawi na madawa ya kawaida ya kuuu wadudu. Kohinor 200 SL huua wadudu ikiwagusa mwilini na vile vile ikimezwa na wadudu wanao tafuna. Dawa ya imidacloprid ina manufaa makubwa kwa vile madhara yake kwa binaadamu ni ya kiasi cha chini, ina uwezo wa kupenya ndani ya mimea na kusambazwa kwenye kila sehemu ya mimea na pia hubaki kwenye mimea kwa muda mrefu ili kuilinda mimea dhidi ya wadudu waharibifu. Baada ya kulowesha mchanga na dawa ya Kohinor 200 SL, imidacloprid hupenya ndani ya mimea kwa kupitia kwenye mizizi na kusambazwa kwenye kila sehemu ya mimea. Na kwa hivyo, wakati dawa hii imeloweshwa kwenye mchanga, ina uwezo wa kulinda mimea dhidi ya waduu walio ndani ya mchanga na wale wanaofyonza majani ya mimea. Kohinor 200SL inalinda mimea kwa muda mrefu.



## MAPENDEKEZO YA MATUMIZI Viwango, Wakati na Jinsi ya Kutumia

MIMEA	WADUDU	VIIMO VYA KUTUMIA	WAKATI WA KUTUMIA
Kahawa	Coffee leaf miner (Leucoptera meyricki)  Fried egg scale (Aspidiotus spp)	Mililita 1.5 kwa lita ya maji kwa mti mmoja  Mililita 3.0 kwa lita ya maji kwa mti mmoja	Lowesha kwenye mchanga. Tumia wakati msimu wa mvua unapoanza, au unyunyizie maji baada ya kutumia dawa. Ni lazima dawa itumiwe wiki 6-8 kabla ya msimu ya wadudu kuanza. Usivune mazao kabla ya siku 35 baada ya kutumia dawa
Mimea ya mapambo (Waridi, carnations, Eustoma spp., hypericum, na kadhalika	Aphids, inzi weupe	Kulowesha mchanga: Mililita 0.3-0.5 kwa lita 4 za maji kwa mita mraba. Kunyunyizia: Mililita 0.5 kwa lita ya maji, mililita 50 kwa lita 100 za maji au mililita 500 kwa hekta	Tumia kwa drip wakati ukiona dalili za kuvamiwa na wadudu. Nyunyiza kwa mimea wakati ukiona dalili za kuvamiwa na wadudu. Mtumiaji anahimizwa afanye majaribio ya usalama kwenye sehemu ndogo kabla ya kutumia kwenye shamba lote.
Miti iliyo shambani na miche iliokuzwa	Wadudu walio kwenye mchanga, mchwa	Mililita 2 kwa lita moja ya maji kwa kila mti mmoja	Tumia kwa kulowesha kwenye mchanga mahali miche imepandwa



MIMEA	WADUDU	VIPIMO VYA KUTUMIA	WAKATI WA KUTUMIA
Mahali mchwa wamejenga	Mchwa	Mililita 2.5 kwa lita ya maji au Mililita 25 kwa lita 10 za maji	Vunja mahali mchwa wamejenga kisha unyunyizie lita 10 cha mchanganyiko wa dawa na maji. Kiwango cha mchanganyiko wa dawa na maji kitategemea ukubwa wa mahali mchwa wamejenga
Shamba la miwa	Mchwa	Mililita 1.7 kwa lita 3.5 za maji kwa kila sehemu ambayo mchwa wapo	Kulowesha kwenye mchanga
Mbegu za miwa	Mchwa	Mililita 500 kwa lita 660 za maji kwa tani 35 za mbegu ya miwa	Lowesha mbegu kwenye mchanganyiko wa dawa
Shamba la tumbaku na mahali miche imepandwa	Aphids, inzi weupe	Mililita 2 kwa lita 4 za maji kwa mita mraba au Mililita 0.037 kwa mimea au mililita 580 kwa hekta	Lowesha kwenye mchanga baada ya kupanda mbegu na baada ya kupanda miche. Usivune mazao kabla ya siku 70 baada ya kutumia dawa
Shamba la mboga na miche ya mboga	Inzi weupe (Bemisia tabaci)	Mililita 0.2 kwa mita mraba Mililita 2 kwa lita 4 za maji kwa mita mraba	Lowesha kwenye mchanga kwa kutumia njia ya drip

### **Kutayarisha Mchanganyiko wa Dawa wa Kulowesha na Jinsi ya Kutumia**

Changanya kipimo cha Kohinor 200 SL kinachohitajika na maji yakutosha ya kulowesha kwenye tako la mimea. Usitumie chini ya lita 1 ya mchanganyiko wa dawa kwa kila eneo la mita moja mraba linalozunguka msingi wa mmea. Ondoa majani, plastiki au magugu zinazoweza kuzuia dawa kufikia mizizi ya mimea. Kufunua mizizi



ya mimea kwa kuchimba mtaro kutaendeleza upokeaji wa dawa na mimea. Mtumiaji anahimizwa atumie dawa wakati mvua inanyesha au anyunyizie maji ili dawa iingie kwenye sehemu ya juu ya mchanga kabla ya kupita kwa masaa ishirini na manne baada ya kutumia dawa. Dawa hii ikitumiwa pamoja na mbolea iliyo na nitrogen, itawezesha upenyaji wa dawa kwenye mizizi ya mimea. Zuia maji kufanya ziwa au kupotea kwenye sehemu nyingine mbali na mahali dawa imetumiwa ili dawa iweze kufikia mizizi ya mimea. Pia usitumie dawa ya Kohinor 200 SL mahali maji yamesimama, kwani yatazuia dawa kuingia kwenye mizizi ya mimea.

#### **Kutayarisha Mchanganyiko wa Dawa wa Kunyunyizia**

Changanya kiasi kinachohitajika cha Kohinor 200 SL pamoja na kiwango kidogo cha maji. Ongeza kiasi cha maji kilichosalia na ukoroge mchanganyiko wa dawa na maji.

#### **Upatanifu**

Kohinor 200 SL inaweza kuchanganywa na madawa ya kawaida ya kilimo na pia mbolea za kunyunyizia.

#### **MUDA SALAMA WA KUIINGIA SHAMBANI**

Baada ya mnyunyizio wa dawa kukauka kwenye jumba la mimea 'greenhouse' na masaa 12 kwa shamba la kawaida.

#### **MAELEZO KWA MTUMIAJI**

Kohinor 200 SL ni salama kwa mimea tofauti iwapo itatumiwa kulinga na maagizo yalio kwenye kibandiko. Watumiaji wanahimizwa wafanye majaribio ya kudhibitisha usalama wa dawa hii kwenye mimea na mahali tofauti, kabla ya kutumia kiasi kikubwa cha dawa kwa mimea ya mapambo.

Utumiaji wa dawa hii ni lazima ubadilishwe na madawa mengine ya kuaangamiza wadudu ili kuzuia dawa ya Kohinor 200 SL isipoteze nguvu za kuwaangamiza wadudu waharibifu. Kama kutahitajika kutumia dawa mara nyingine baada ya kunyunyizia Kohinor 200 SL, mtumiaji anahimizwa atumie dawa nyingine ya kikundi tofauti au ambayo hufanya kazi kwa njia tofauti na Kohinor 200 SL

#### **HADHARI**

##### **Matumizi**

Vaa mavazi ya kujikinga, viziwi vya mikono na uso na viatu visivyopenya maji unapotumia dawa hii. Jiepushe na ukungu wa dawa, jihadhari mchanganyiko wa kunyunyizia usimwagikie kwenye ngozi, usiingie kwenye macho au kumwagikia nguo ulizovaa. Usinyunyizie dawa ukielekea upande upepo unakotoka. Usivute sigara na usile wala kunywa wakati unapotumia dawa hii.



### **Baada ya kazi**

Nawa mikono unapopumzika kazini na baada ya kazi. Baada ya kazi, vua nguo na unawe mikono na uso ukitumia maji na sabuni. Osha bomba la kunyunyizia dawa na nguo zilizomwagikiwa na dawa kwa uangalifu.

### **Kuhifadhi**

Hifadhi dawa hii katika chombo chake asili ambacho kimefunikwa sawa sawa na kuwekwa mahali pakavu na pasipo na joto, mbali na watoto, watu wasioruhusiwa, vyakula, maji na vyakula vya mifugo.

### **Utupaji**

Sunza mkoba ulioisha dawa na maji mara tatu, kisha utoboe au ubonyeze na utupilie au uzike mahali ambapo pamehidhinishwa, mbali na maji. Usitumie mkoba wa dawa kwa matumizi mengine yoyote. Mchanganyiko wa dawa na maji ambao haujatumika au maji yaliyoosha vyombo ni lazima itupiliwe mbali mahali ambapo ni salama, panapokubaliwa, na mbali na chemi chemi ya maji au kwa kunyunyizia sehemu ya shamba ambayo haijalimwa.

### **Dawa Ikimwagika au Kuvuja**

Dawa ikivuja, iloweshe kwa sehemu ndogo ya mchanga au 'sawdust' kisha ufungie mahali ambapo ni salama kabla ya kutupilia mbali mahali ambapo pamehidhinishwa. Iwapo kiasi kikubwa cha dawa kimevuja, unapaswa uripoti kwa wasambasaji au wizara ya mazingira ili upate usaidizi. Zuia utumiaji wa moto karibu na mahali dawa imevuja au uchafuaji wa maji na dawa iliovuja.

### **MADHARA KWA MAZINGIRA**

Kohinor 200 SL ni sumu kwa nyuki. Lakini kwa vile dawa hii inaloweshwa kwenye mchanga, hakuna uwezekano wa dawa kudhuru nyuki na wadudu wengine wenye manufaa kwa binadamu. Mtumiaji anahimizwa asinyunyizie dawa hii kwa mimea ambayo imetoa maua. Vilevile, ingawa dawa hii ni sumu kwa samaki na viumbe vingine vinavyo ishi kwenye maji haiwezi kudhuru hivi viumbe kama itatumiwa kulingana na maagizo yaliyo kwenye kibandiko. Usichafue mazingira kwa kumwaga mabaki ya dawa, kutupa au kusunza mkoba wa dawa kwa mito, visima au vidimbwi na chemichemi.



## **MAELEZO KUHUSU SUMU**

### **Dalili za Kusumika**

Dalili za kusumika ni kama vile kushindwa kupumua, kutetemeka, apathy na myatonia.

Makata: Hakuna makata maalum.

### **Maelezo kwa daktari**

Hakuna tiba maalum. Tibu mgonjwa kulingana na dalili za maumivu ili asaidiwe kupumua na kufanya kazi kwa pigo la moyo. Matibabu mengine ya nyongeza ni yale ya kutoa sumu mwilini au ya kuharisha.

### **Tahadhari kwa Daktari**

Usimpatie mgonjwa maziwa au vinywaji vingine vyenye kuleweshwa.

### **ILANI KWA MTUMIAJI**

Dawa hii sharti itumiwe kulingana na maagizo yaliyo kwenye kibandiko. Ni hatia chini ya sheria za madawa ya kuangamiza wadudu waharibifu, kutumia au kuhifadhi dawa hii katika hali isiyo salama.

### **THIBITISHO**

Dhamana ya muuzaji ni maelezo yaliyo kwenye kibandiko ambayo ni lazima yafuatwe kikamilifu. Mnunuzi lazima akubali hatari zozote zinazoweza kutokana na matumizi ya dawa hii kwa binadamu au mali na lazima aikubali dawa hii katika hali hiyo.



## **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 new 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 inhibitors), but also from that of the pyrethroids, which act on other nerve fibre membrane proteins. Imidacloprid acts as an acute contact and stomach poison. It exhibits low toxicity to warm-blooded animals, excellent systemic properties and a significant residual activity. After soil treatment via the irrigation system/soil drench, imidacloprid is taken up by roots and transported into the aerial parts of the plants (stems and leaves) by the sap flow. Soil pests are controlled through contact with the product. After application, Kohinor 200 SL protects the roots and the foliage from pests for several weeks, often until the plant has grown beyond the young stages at which it is susceptible to infestation.

**ADAMA**





## DIRECTIONS FOR USE

### Application Rates, Timing and Methods

CROP	INSECT PEST	APPLICATION RATE	TIMING/REMARKS
Coffee Fried egg scale (Asidiotus spp)	Coffee leaf miner (Leucoptera meyricki)	1.5 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.
	Fried egg scale (Asidiotus spp)	3.0 ml per litre of water per tree	
Ornamentals (Roses, carnations, Eustoma spp., hypericum, etc)	Aphids, whiteflies, thrips	Soil drench: 0.3-0.5 ml per 4 Lt of water per m <sup>2</sup> .  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.



CROP	INSECT PEST	APPLICATION RATE	TIMING/REMARKS
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 Lt of water per colony	Soil drench application
Seed cane (cane trees) Treatment	Termites	500 ml per 660 litres of water to treat 35 tonnes of seed cane.	Dipping of cane sets.
Tobacco (nursery stage)	Aphids, Whiteflies	2 ml in 4 Lt of water per m <sup>2</sup> ,	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.
Tobacco (field)	Aphids, Whiteflies	0.037 ml per plant or 580 ml per Ha	
Vegetables (field)	Whitefly	0.2 ml per m <sup>2</sup>	One application as soil drench through drip or other means of Soil drench application.
Vegetables (nursery stage)	(Bemisia tabaci)	2 ml in 4 Lt. of water per m <sup>2</sup>	
Citrus	Leaf miner, Red Scales, Thrips, Black ants.	16-20 ml in 10 Lt. of water per tree or 0.75 Lt. per Ha assuming 600 trees per Ha	Apply as soil drench close to the trunk base of each citrus tree. Apply as stem painting by using a paint brush (a 30 cm stem band above the ground surface).



### **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 1Lt 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 the solution from 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.

### **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 to always 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 crush 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.

#### **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 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 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 symptomatically 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.

**Shelf Life:** 2 years from the date of manufacture if stored in unopened original container in a dry cool place.

**Maisha rafuni:** Miaka miwili baada ya kutengenezwa kama imewekwa kwenye chombo chake halisi ambacho hakijafunguliwa, mahali pakavu pasipo na joto nyingi.

**Manufactured by / Imetengenezwa na:**

ADAMA Celsius BV  
Amsterdam (NL) Schaffhausen  
Web: [www.adama.com](http://www.adama.com)

**Approved by / Imethibitishwa na:**

Tropical Pesticides Research Institute (TPRI) P.O. Box 3024,  
ARUSHA – TANZANIA  
TEL: 255 27 2508813/15, 255 27 2505871 Fax: 255 27 2505871

**Distributed By / Inasambazwa Na:**

TriaChem (T) Ltd.  
P.O.Box 2750, Arusha-Tanzania  
PLOT NO 49AA, Esso Road,  
Tel/Fax: +255272548774  
Web: [www.triachem.com](http://www.triachem.com)



Expiry date  
Date of Manufacture SEE PACKING  
Batch Number

**ADAMA**