

**FMC****CORAGEN® 20SC**Insecticide / Kiua Wadudu  
powered by  
**RYNAXYPYR®**

GROUP 28 INSECTICIDE

Insecticide used for the control of caterpillars (*Helicoverpa armigera*) on French beans, snow peas and sugar snap peas, *Helicoverpa armigera* and *Tuta absoluta* on tomatoes and diamond back moth on cabbages and Fall Army Worm and Maize Stalk Borer on Maize.

Kiua dudu cha kudhibiti viwavi aina ya (*Helicoverpa armigera*) kwenye French beans, snow peas na sugar snap peas, *Helicoverpa armigera* na *Tuta absoluta* on tomatoes na diamond back moth kwenye kabeji. Fall Army Worm na Maize Stalk Borer kwenye mahindi.

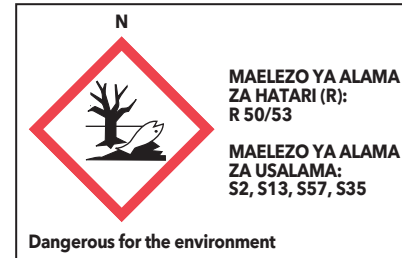
COMMERCIAL AND AGRICULTURAL CLASS (KUNDI LA BIASHARA NA KILIMO):

**GUARANTEE (DHAMANA): Chlorantraniliprole 200 g/L****REGISTRATION NO. (NAMBARI YA USAJILI) : PCPB (CR) 1138****Manufacturer / Watengenezaji:**

Du Pont de Nemours (FRANCE) S.A.S  
82 rue de Wittelsheim - 68701 Cernay  
France

**Agent / Ajenti:**

FMC Kenya Branch  
P.O.BOX 25459-00100, Nairobi, Kenya.  
Tel: +254 20 515 4241 / 2  
www.fmc.com

NET CONTENTS (KIASI): **1L e****Shelf Life:** 3 years from manufacturing

**Maisha rafuni:** (kwenye chombo ambacho hakijafunguliwa); Miaka 3 baada ya tarehe ya kutengenezwa. Fall Army Worm kwenye mahindi.

**Distributor / Msambazaji:**

Elgon Kenya Limited  
Eastgate Rd. Off. Mombasa Rd.  
P.O. Box 46826-00100 Nairobi (Kenya)  
Tel: +254-20-6534410  
Fax: +254-20-6534807  
www.elgonkenya.com



**IN CASE OF POISONING CALL TOLL FREE NUMBER / PIGA SIMU YA KUSUMIKA MALIPO KWA: 0800720021 / 0800730030 (24HRS/MASAA 24)**

**READ THE LABEL BEFORE USING (SOMA KIBANDIKO KABLA YA KUTUMIA) KEEP LOCKED OUT OF REACH OF CHILDREN (FUNGIA MBALI NA WATOTO)**

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11000120\_22048395\_KENYA

**FMC****Registrant / Wasajiliwa:**

FMC International Switzerland Sàrl  
Chemin de Blandonnet 8, 1214  
Switzerland. VAT reference : CHE109747063TVA

**Batch No:** See print on packaging (Nambari ya furushi)

**Date of Manufacture:** See print on packaging (Tarehe ya kutengenezwa)



	FILL IN		DIMENSIONS (WXH)
Country	Kenya	Single label	
Product SKU	11000120	Base for Booklet	
Product SKU Description	CORAGEN 20SC_1L_KE_ELGN	Booklet	244/239 x 130 mm
Label SKU	22048395	Number of pages (Booklet)	3 pages
Label SKU Description	LBL_ML-F_1L_CORAGEN 20SC_ELGN KE_1	Carton label	
Label SKU (earlier version(s))		Preprinted Material	

CORAGEN® 20 SC is an insecticide used for the control of larvae of various Lepidopteran and Coleopteran species contains chlorantraniliprole, which is a novel anthranilic diamide insecticide with a novel mode of action. CORAGEN® 20 SC binds to the insect ryanodine receptors, activating the release and the depletion of the calcium stores of smooth and striated muscle, causing impaired muscle regulation, paralysis and ultimately insect death.

**DIRECTIONS FOR USE**

All larval stages are controlled and adult stages of some species are partially controlled. Activity is by ingestion and contact. The product also shows ovi-larvicidal efficacy against some important species. Paralysis of the pest occurs within a few hours of exposure and results in cessation of movement and feeding. Final control can take 2-4 days. Monitor insect populations to determine whether or not there is a need for application of CORAGEN® 20 SC based on locally determined economic thresholds. Follow-up treatment at 10 to 14 day intervals can be applied, if needed, to keep pest populations within threshold limits. Use sufficient water to obtain thorough, uniform coverage.

CROP	PEST	COMMENTS	RATE OF USE	PHI	MRL mg/kg
Tomatoes	African bollworm: <i>Helicoverpa armigera</i>	Apply on first sign of insects.	150 ml/ ha or 6 ml/20 L Knapsack Use 500 L solution per hectare	1 day	0.05
	Tomato leaf miner moth: <i>Tuta absoluta</i>	Apply on first sign of insects.	200ml/ha Use 500 L solution per hectare		
French beans, Snowpeas, Sugar snaps	African bollworm: <i>Helicoverpa armigera</i>	Apply on first sign of insect attack during flowering before pod formation.	125 ml/ ha or 5 ml/20 L Knapsack Use 500 L solution per hectare	3 days	0.1
Cabbages	Diamond Back Moth: <i>Plutella xylostella</i>	Apply on first sign of insects.	125 ml/ ha or 5 ml/20 L Knapsack Use 500 L solution per hectare	3 days	0.5
Maize	Fall Army Worm: <i>Spodoptera frugiperda</i> and Maize Stalk Borer	Apply on first sign of insects.	150 ml/ ha or 6 ml/20 L Knapsack Use 500 L solution per hectare	7 days	0.02

**CORAGEN® 20 SC insecticide should be used only in accordance with recommendations on this label**

**Mixing instructions:**

Prior to application, start with clean, well-maintained application equipment. CORAGEN® 20 SC mixes with water and should be added directly to the spray tank during filling. Fill spray tank 1/4 to 1/2 full of water. Add CORAGEN® 20 SC directly to spray tank. Mix thoroughly to fully disperse the insecticide, once dispersed continued agitation is required. Wash-out container and add washings to the spray tank. Continue agitation until spraying is complete. Use mechanical or hydraulic means; do not use air agitation. Spray mix should not be stored overnight in spray tank. Observe the most restrictive of the labeling limitations and precautions of all products use in mixtures.

**Spray tank clean-out:**

Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove. Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom, and nozzles with clean water. Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

**Restrictions:**

Maximum number of treatments: 2 per crop per season. Do not apply to crops under stress.

**Rainfastness:**

CORAGEN® 20 SC is rainfast after the spray has dried on the foliage for 1 - 2 hours.

**Resistance statement:**

CORAGEN® 20 SC contains chlorantraniliprole, a Group 28 insecticide, based on the international IRAC\* Mode of Action classification. Repeated and exclusive use of CORAGEN® 20 SC or other Group 28 Insecticides may create resistant insect populations. Follow these recommendations to prevent or delay the development of insecticide resistance to CORAGEN® 20 SC:

- Do not apply more than the recommended applications of CORAGEN® 20 SC per season for any crop. Refer to "Restrictions" for the guideline.
- Apply CORAGEN® 20 SC or other Group 28 insecticides using a "window" approach to avoid exposure of multiple successive pest generations to the same mode of action. A window is defined as the period of residual activity with insecticides of the same mode of action within an approximate 30 day period.
- Two successive applications of CORAGEN® 20 SC may be made within a treatment window to protect new growth or control high pest populations.
- Following a window of use with CORAGEN® 20 SC or other Group 28 insecticides, rotate to a window using effective insecticides with a different mode of action.
- Incorporate IPM practices (cultural and biological control) into the pest management program.
- Monitor insect populations for loss of field efficacy
- Target the most sensitive life stage of the pest, typically small larvae.

If you experience difficulty with control, and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternate method of control for your area.

**Integrated pest management:**

DuPont supports the use of Integrated Pest Management (IPM) programs to control pests. This product may be used as part of an IPM program, which can include biological, cultural, and genetic practices, aimed at preventing economic pest damage.

**Beneficial arthropods:**

According to the standards of Good Agricultural Practices, CORAGEN® 20 SC should not be applied when honeybees are actively foraging.

**Hazard/ Precaution:**

- Avoid contact with the product. Misuse may cause injuries to health.
- When handling the undiluted product and the spray liquid, wear lightweight protective clothing / long-sleeved clothing (suitable for plant protection), rigid boots (e.g. rubber boots) and all-purpose protective gloves (plant protection).
- Wash gloves before taking them off. Follow manufacturer's instructions for personal protection equipment.
- Keep out of the reach of children.
- Keep away from food, drink and animal feeding stuffs.
- Use appropriate containment to avoid environmental contamination.
- This material and its container must be disposed of in a safe way.

**Storage:**

Store product in a cool, dry place in its original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage.

**Disposal:**

Do not contaminate water, food, or feed by storage or disposal. Triple rinse empty pesticide container, puncture holes and dispose off in accordance to the National Legislation and Regulations. DO NOT Reuse empty pesticide container for any other purpose.

**ENVIRONMENTAL HAZARDS**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**To avoid risks to man and environment, comply with the instructions for use.**

**FIRST AID INSTRUCTIONS**

**First aid**

- General instructions:** Never give anything by mouth to an unconscious person.
- Inhalation:** Consult a physician after significant exposure.
- Skin contact:** If on skin, rinse well with water. Wash contaminated clothing before re-use.
- Eye contact:** Rinse with plenty of water. Keep eye wide open while rinsing. Consult a physician if necessary.
- Ingestion:** Consult a physician if necessary

**TOXICOLOGICAL INFORMATION:**

**Antidote:** No antidotes.

**Symptoms of poisoning:** No symptoms of poisoning available, physician can consider gastric lavage and/or administration of activated charcoal.

**Note to the physician:**

In case of poisoning call toll free numbers 0800 730030/0800 720021 (24hrs).

**NOTICE TO USER:**

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

**SELLERS GUARANTEE:**

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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**MAELEZO**

CORAGEN® 20 SC ni dawa inayothibiti viwavi vya wadudu kadhaa kwa ngazi zote za kukuwa k.m. Lepidopteran na Coleopteran ina chlorantraniliprole, ambayo ni dawa ya kuuwa wadudu aina ya anthranilic diamide. CORAGEN® 20 SC hujigandisha kwenye "ryanodine receptors" za mdudu na hivyo kuwezesha kutolewa na kuisha madini ya kalsiam toka kwenye misuli jambo ambalo huleta hadhari kwenye misuli, kupooza na hatimaye mdudu kufa.

**MAELEZO YA MATUMIZI:**

Lepidopteran na Coleopteran. Huweza pia kuthibiti kwa kiwango fulani aina kadhaa za wadudu husika. Hufanya kazi ikimezwa na kuguswa. Dawa hii pia ina madhara kwa mayai na viwavi vya aina muhimu za wadudu. Mdudu hupooza masaa kadhaa baada ya kunyunyizia dawa na mdudu kutembea na kula. Uthibiti wa wadudu ni siku 2-4. Tathmini wingi wa wadudu ili uamue kama kuna haja ya kutumia CORAGEN® 20 SC ukizingatia hali ya uchumi. Ikiwazi unaweza kunyunyizia tena dawa baada ya siku 10 - 14 ili kuhakikisha kuwa wadudu hawaongezeki kwa kiwango cha kuleta madhara. Changanya dawa na maji ya kutosha ili mimea iloweshwe vyema na mnyunyizio.

CROP	PEST	COMMENTS	RATE OF USE	PHI	MRL mg/kg
Nyanya	African bollworm: <i>Helicoverpa armigera</i>	Tumia dawa mara tu unaapoonia ishara ya wadudu.	150 ml/ ha or 6 ml/20 L Knapsack Use 500 L solution per hectare	Siku 1	0.05
	Tomato leaf miner moth: <i>Tuta absoluta</i>		200ml/ha Use 500 L solution per hectare		
French beans, Snowpeas, Sugar snaps	African bollworm: <i>Helicoverpa armigera</i>	Tumia dawa mara tu unaapoonia ishara ya kwanza ya wadudu wakati wa maua kutokeza kabla ya "pods".	125 ml/ ha or 5 ml/20 L Knapsack Use 500 L solution per hectare	Siku 3	0.1
Kabeji	Diamond Back Moth: <i>Plutella xylostella</i>	Tumia dawa mara tu unaapoonia ishara ya wadudu	125 ml/ ha or 5 ml/20 L Knapsack Use 500 L solution per hectare	Siku 3	0.5
Mahindi	Fall Army Worm: <i>Spodoptera frugiperda</i> and Maize Stalk Borer		150 ml/ ha or 6 ml/20 L Knapsack Use 500 L solution per hectare	Siku 7	0.02

**CORAGEN® 20 SC itumiwe tu kama inavyopendekezwa kwenye maelezo yaliyoainishwa kwenye hii lebo.**

**Kuchanganya dawa:**

Kabla ya kunyunyizia, hakikisha. kuwa vitendea kazi ni visafi na imara. CORAGEN® 20 SC huchanganyikana na maji na hivyo dawa ongezwe kwenye tanki la kunyunyizia wakati wa kuweka maji. Jaza tanki ¼ hadi ½ kwa maji. Ongeza CORAGEN® 20 SC moja kwa moja kwenye tanki. Changanya vizuri ili dawa isambae vyema. Endelea kutikisatikia tanki. Safisha chombo uliuchanganyia dawa na weka maji haya kwenye tanki la kunyunyizia huku ukiendelea na kulitikisatikia mpaka umalize kunyunyizia. Tumia njia za "mechanical" au "hydraulic" na ustumie hewa kwa kutikisatikia tanki. Dawa ikishachanganywa isikae kwenye tanki kwa muda mrefu. Unapochanganya dawa, zingatia kwa makini mapungufu na tahadhari kama ilivyoainishwa kwenye lebo.

**Kuhimili mvua:**

CORAGEN® 20 SC haiwezi kuondolewi kwenye majani saa 1-2 baada ya kunyunyiziwa kwani itakuwa imekwisha kaukia.

**Tamko la Ustahamili:**

CORAGEN® 20 SC ina chlorantraniliprole, kwenye Kundi la madawa 28 kwa misingi ya IRAC<sup>4</sup> ya uanishi wa jinsi madawa yanavyofanya kazi. Matumizi ya CORAGEN® 20 SC mara kwa mara pekee au dawa nyingine kwenye kundi hili la madawa 28 ustahamili wa dawa kwa aina fulani ya wadudu wa mimea waweza kujengeka.

- Fuata maagizo yafuatayo kuzuia au kuahirisha ustahimili wa CORAGEN® 20 SC:
- Ustumie CORAGEN® 20 SC zaidi ya mara ya matumizi kama ilivyopendekezwa kwa msimu mmoja wa mimea kwa mimea yoyote. Rejea kusoma "Masharti" kwa ajili ya maelezo zaidi kwa mwongozo fulani wa mimea.
  - Tumia CORAGEN® 20 SC au dawa zingine zilizo kwenye Kundi la madawa 28 ukitumia mbinu ya "window" kuelewa ustahimili wa dawa kwa vizazi vinavyofuatana vya wadudu kwa dawa zilizo na mfumo mmoja wa kutenda kazi. Mbinu ya "window" ni muda ambao mabaki ya dawa yanaisha nguvu baada ya dawa zilizo na mfumo mmoja wa kutendakazi kufanya kazi dhidi ya wadudu kwa muda wa siku 30.
  - Matumizi ya CORAGEN® 20 SC mara mbili kwa mfululizo unaweza kufanywa ndani ya "treatment window" kuzuia ukujaji au kudhibiti wingi wa wadudu.
  - Baada ya matumizi ya "window" ya CORAGEN® 20 SC au dawa zingine zilizo kwenye kundi la 28 la madawa, badilisha "window" kwa kutumia dawa zilizo na mfumo tofauti wa kutendakazi na ufanisi.
  - Ushirikiano wa njia asili na njia za kibayolojia na njia zote mbadala za kudhibiti wadudu waharibifu (IPM) katika mikakati ya kudhibiti wadudu.
  - Fuatilia wingi wa wadudu kujua hasara inayoambatana na ufanisi wa mashamba au mimea.
  - Lenga kunyunyizia dawa wakati nyeti wa ukujaji wa wadudu haswa lava wadogo. Unapopata shida kudhibiti wadudu na iwapo inasababishwa na ustahimili wa dawa, inapendekezwa kutafuta mawaida kutoka kwa mwakilishi wa kampuni au afisa wa kilimo ya jinsi ya kutumia njia tofauti mwafaka katika eneo husika.

**Masharti:**

Dawa itumiwe mara 2 tu kwenye mimea katika msimu mmoja. Ustumie kwenye mimea iliyo na usongo

**Wadudu wenye manufaa:**

CORAGEN® 20 SC isitumiwe wakati nyuki wakitafuta chakula kwenye mimea.

**Tahadhari:**

- Chunga usiguse dawa. Matumizi mabaya huleta madhara kwa afya.
  - Wakati unatumia dawa mabayo hajachan-ganywa na maji na ile iliyochanganywa na maji, vaa nguo stahiki za kujikinga, mabuti na glovu.
  - Osha maglovu kabla hujayatoa. Fuata maelekezo ya mtengezaji dawa kuhusu mavazi ya kujikinga yanayofaa.
  - Weka mbali na watoto, vyakula and malisho ya wanyama.
- Zuia dawa hii kuzambaa kwenye mazingara, tumia njia sahihi na salama kwa utupaji.

**Kuhifadhi:**

After the word Hifadhi: Dawa kwenye chombo chake asili. Weka chombo kwenye sehemu yenye baridi, pakavu ambako hakuna uryevu, mbali na watoto, wanyama, maji, chakula malisho. Baada ya kutumia dawa weka na ufunike kwa uangulifu sana. Usichafue maji, madawa mengine, mbolea vyakula au lisho zilizo ghalani.

**Kusafisha tanki la kunyunyizia:**

Mara baada ya matumizi, vifaa vyote vya kunyunyizia dawa visafishwe vizuri kuondoa uwezekano wa kuweka matabaka magumu ya dawa. Titrisha vifaa hivyo kwa maji. Suza kunyunyizio na vuta maji masafi katika "hoses", "boom" na "nozzles". Safisha vifaa vingine yote husika. Wakati wa kufanya usafi wa hivi vitendea kazi, fuata masharti na tahadhari za usalama. Usifanyie usafi karibu na visima vya maji, vyanzo vya maji au mimea. Toa maji ya kuoshea vifaa ukizingatia kanuni za mamlaka husika.

**Utupaji:**

Usichafue maji, vyakula au lisho za wanyama wakati wa kuhifadhi au kutupa masalia ya dawa. Masalia yote yatupwe mahali palipoidhinishwa na mamlaka husika. Osha chombo kitupu cha dawa mara tatu, toboa mashimo na utupe mahali stahiki kulingana na idhini ya mamlaka husika.

Ustumie tena chombo kilichokuwa kinahifadhi dawa kwa matumizi yeyote mengine.

**MADHARA KWA MAZINGARA**

Ina madhara kwenye viume vya maji, na inaweza kusababisha madhara yenye kudumu kwa mazingara ya majini.

**Taratibu za huduma ya kwanza:**

- **Maagizo ya kawaida:** Usimlishe kitu chochote mtu asiyekuwa na fahamu.
- **Ikiwutwa na pumzi:** Mwone mtaalam wa tiba kama unevuta kwa muda mrefu.
- **Ikiugua ngozi:** Osha ngozi vizuri na maji. Nguo zenye dawa zioshwe kabla hazijatumiwa tena.
- **Ikiugua jicho:** Osha jicho kwa maji mengi likiwa limefunguliwa. Ikiwazi mwone mtaalam wa tiba.
- **Ikiwezwa:** Ikiwazi mwone mtaalam wa tiba.

**PELEKA MJERUHI KWA DAKTARI**

Wakati wa kusumika piga simu bila malipo 0800 730030/0800 720021 (masaa 24).

**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 isiyosalama.

**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.

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