



# CORAGEN® 20SC

## Insecticide / Kjua Wadudu

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**RYNAXYPYR®**

GROU

28

#### **INSECTICIDE**

Insecticide used for the control of caterpillars African Boll Worm (*Helicoverpa armigera*) on French beans, snow peas , sugar snap peas and Carnations, *Helicoverpa armigera* and *Tuta absoluta* on Tomatoes, Diamond back moth on Cabbages, Fall Army Worm and Maize Stalk Borer on Maize, Beet Army Worm (*Spodoptera exigua*),Egyptian Cotton Leaf Worm (*Spodoptera littoralis*),False Codling Moth (*Thaumatomotibia leucotreta*) on Roses.

Kiua dudu cha kudhibiti viwavi aina ya African Boll Worm (*Helicoverpa armigera*) kwenye French beans, Snow peas, Sugar snap peas na Carnations, *Helicoverpa armigera* na *Tuta absoluta* kwenye Tomatoes, Diamond back moth kwenye kabejji, Fall Army Worm na Maize Stalk Borer kwenye Mahindi na Beet Army Worm (*Spodoptera exigua*), Egyptian Cotton Leaf Worm (*Spodoptera littoralis*), False Codling Moth (*Thaumatomotia leucotrota*) kwenye Wardi COMMERCIAL AND AGRICULTURAL CLASS (KUNDI LA BIASHARA NA KILIMO):

**GUARANTEE (DHAMANA): Chlorantraniliprole 200 g/L**

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**REGISTRATION NO (NAMBARI YA USA III): PCPB(CB) 1138**

**Manufacturer / Watengenezaji:**  
Du Pont de Nemours (FRANCE) S.A.S  
82 rue du Wittelsbach, 68701 Cornay France

NET CONTENTS (KIASI): 1L e

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**Registrant / Wasajiliwa:**  
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Switzerland, VAT reference: CHE109747063TV/A

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

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

244-239 x 130 - 11000120\_22063446 | LBL\_ML-E\_1L\_COBAGEN 20SC\_EI GON KE\_2 BOOKLET\_3pages.indd 1

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A horizontal color calibration strip featuring seven color patches: Pantone 347C (green), Pantone 032C (red), Pantone 259C (purple), CYAN (blue), MAGENTA (magenta), YELLOW (yellow), and BLACK (black).

	FILL IN		DIMENSIONS (WXH)
Country	Kenya	Single label	
Product SKU	11000120	Base for Booklet	
Product SKU Description	CORAGEN 20SC_1L_KE_ELGON	Booklet	244/239 x 130 mm
Label SKU	22063446	Number of pages (Booklet)	4 pages
Label SKU Description	LBL_ML-F_1L_CORAGEN 20SC_ELGON KE_2	Carton label	
Label SKU (earlier version(s))	22048395	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 tyrosine 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 ovicidal 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	Pests	Timing of application	Rate of use	PHI
Tomatoes	African bollworm <i>Helicoverpa armigera</i>	Apply on first sign of insects.	150 mL/ ha or 6 mL/20L knapsack. Use 500L solution per hectare.	1 day
	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>	Apply on first sign of insect attack during flowering before pod formation.	125 mL/ ha or 5 mL/20L Knapsack. Use 500L solution per hectare.	3 day
	Carnations		As soon as first signs of insects appear on the crop.	0 Days
Cabbages	Diamond Back Moth: <i>Plutella xylostella</i>	Apply on first sign of insects.	125 mL/ ha or 5 mL/20L Knapsack. Use 500L solution per hectare.	3 day
Maize	Fall Army Worm: <i>Spodoptera frugiperda</i> Maize Stalk Borer ( <i>Busseola fusca</i> )	Apply on first sign of insects.	150 mL/ ha or 6 mL/20L Knapsack. Use 500L solution per hectare.	7 day
Roses	Beet Army Worm ( <i>Spodoptera exigua</i> ), Egyptian Cotton Leaf Worm ( <i>Spodoptera littoralis</i> ), False Codling Moth ( <i>Thaumatotibia leucotreta</i> )	As soon as first signs of insects appear on the crop. Repeat every 14 days. Max 2 applications	150 mL/ ha or 6 mL/20L Knapsack Use 500 L solution per hectare	0 Days

#### 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 viwai vya wadudu kadhaa kwa ngazi zote za kukuwa k.m. Lepidopteran na Coleopteran ina chlorantraniliprole, ambayo ni dawa ya kuua wadudu aina ya anthranilic diamide. CORAGEN® 20 SC hujigandisha kwenye "yanodine receptors" za mlduu na hivyo kuwezesha kutolewa na kuisi madini ya kalsiam toka kwenye misili jambo ambalo huleta hadhari kwenye misili, kupoza na hatimaye mlduu 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 viwai vya aina muhimu za wadudu. Mlduu hupoza masaa kadhaa baada ya kunyuniyza dawa na mlduu kutembea na kula. Utibiti wa wadudu ni siku 2-4.

Tathmini wingi wa wadudu ili umame kama kuna haja ya kutumia CORAGEN® 20 SC ukizingatia hali ya uchumi. Ikibidi unaweza kunyuniyza tena dawa baada ya siku 10 - 14 ili kuhakikisha kuwa wadudu hawaoangezeki kwa kiwango cha kuleta madhara. Changanya dawa na maji ya kutosha ili mimea iloweshiwe vyema na mnyunyizio.

Mmea	Wadudu	Wakati wa matumizi	Kiwango cha matumizi	Muda salama wa kuvuna
Nyanya	African bollworm: <i>Helicoverpa armigera</i>	Tumia dawa mara tu unaapoona ishara ya kwanza ya wadudu.	Milita 150 kwa hektaa au milita 6 kwa bomba la lita 20. Tumia lita 500 za mchanganyiko wa dawa kwa kila hektaa.	Siku 1
	Tomato leaf miner moth: <i>Tuta absoluta</i>		200ml/ha Tumia 500 L solution per hectare	
Mishiri, Snowpeas, Sugar snaps	African bollworm: <i>Helicoverpa armigera</i>	Tumia dawa mara tu unaapoona ishara ya kwanza ya wadudu wakati wa mawa kutekeza kabla ya 'pods'	Milita 125 kwa hektaa au milita 5 kwa bomba la lita 20. Tumia lita 500 za mchanganyiko wa dawa kwa kila hektaa.	Siku 3
	Carnations		Tumia dawa mara tu unaapoona ishara ya kwanza ya wadudu	
Kabeji	Diamond Back Moth: <i>Plutella xylostella</i>	Tumia dawa mara tu unaapoona ishara ya kwanza ya wadudu	Milita 125 kwa hektaa au milita 5 kwa bomba la lita 20. Tumia lita 500 za mchanganyiko wa dawa kwa kila hektaa	Siku 3
Mahindi	Fall Army Worm: <i>Spodoptera frugiperda</i> Maize Stalk Borer ( <i>Busseola fusca</i> )	Tumia dawa mara tu unaapoona ishara ya kwanza ya wadudu	Milita 150 kwa hektaa au milita 6 kwa bomba la lita 20. Tumia lita 500 za mchanganyiko wa dawa kwa kila hektaa	Siku 7
Waridi	Beet Army Worm ( <i>Spodoptera exigua</i> ), Egyptian Cotton Leaf Worm ( <i>Spodoptera littoralis</i> ), False Codling Moth ( <i>Thaumatotibia leucotreta</i> )	Tumia dawa mara tu unaapoona ishara ya kwanza ya wadudu. Rudia baada ya siku 14	Milita 150 kwa hektaa au milita 6 kwa bomba la lita 20. Tumia lita 500 za mchanganyiko wa dawa kwa kila hektaa	0 Days

**CORAGEN® 20 SC itumive tu kama inavyopendekezwa kwenye maelezo ya kujinganisha kwenye hii lebo.**

**Kuchanganya dawa:**

Kabla ya kunyuniyza, hakikisha, kuwa itendea kazi ni visafi na imara. CORAGEN® 20 SC huchanganyikana na maji na hivyo dawa iongezwe kwenye tanki la kunyuniyza 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 kutikisatikisa tanki. Safisha chombo ulichochanganya dawa na weka maji haya kenyetanki la kunyuniyza huku ukiendelea na kutikisatikisa mpaka umalize kunyuniyza. Tumia njia za "mechanical" au "hydraulic" na usitumie hewa kwa kutikisatikisa tanki.

Dawa ikiwashanganya isikae kwenye tanki kwa muda mrefu. Unapochanganya dawa, zingatia kwa makini mapungufu na tahadhar kama iliyoinishwa kwenye lebo.

**Kuhimili mvua:**

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

**Tamko la Ustahamili:**

CORAGEN® 20 SC ina chlorantraniliprole, kwenye Kundi la madawa 28 kwa misingi ya IRAC\* ya uanishi wa jinsi madawa yanayofanya 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 wawezza kujengenka.

Fuata maagizo yafuatayo kuzilia au kuahirisha ustahamili wa CORAGEN® 20 SC:

- Usitumie CORAGEN® 20 SC zaidi ya mara ya matumizi kama iliyopendekezwa 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 zilizoko kwenye Kundi la madawa 28 ukutumia mbini ya "window" kuepuka ustahamili wa dawa kwa vizizi vinayofutana ya wadudu kwa dawa zilizo na mfumo mmoja wa kutenda kazi. Mbini ya "window" ni muda ambaob mabaki ya dawa yanaishi 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 kufanya ndani ya "treatment window" kuzilia ukaji au kudhibiti wingi wa wadudu.
- Baada ya matumizi ya "window" ya CORAGEN® 20 SC au dawa zingine zilizoko kwenye kundi la 28 la madawa, badilisha "window" kwa kumtima dawa zilizo na mfumo tofauti wa kutendakazi na ufansi.
- Ushirikiano wa njia asili na njia za kibayoloja na njia zote mbadala za kudhibiti wadudu waharibifu (IPM) katika mikakati ya kudhibiti wadudu.
- Fuatila wingi wa wadudu kujua hasara inayoambatana na ufansi wa mashamba au mimea.
- Lenga kunyuniyza dawa wakati nyeti wa ukujui wa wadudu haswa lava wadogo.
- Unapopata shida kudhibiti wadudu na ipo inasababishwa na ustahamili wa dawa, inapendekezwa kutufata mawaidha kutoka kwa mwakilishi wa kampuni au afisa wa kilimo ya jinsi ya kutumia njia tofauti mwaafaka katika eneo husika.

**Masharti:**

Dawa itumive mala 2 tu kwenye mimea katika msimu mmoja.

**Wadudu wenyi manufaa:**

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

**Tahadhar:**

• 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 glovi.
- Osha maglovu kabla hujayatoa. Fuata maeleko ya mtengezaji dawa kuhusu mavazi ya kujikinga yanayofaa.
- Weka mbali na watoto, vyakula and malishi ya wanyama.

Zuia dawa hii kuzambarra 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 unyevu, mbali na watoto, wanyama, maji, chakula malishi. Baada ya kutumia dawa weka na ufunki kwa uangulifu sana. Usichafue maji, madawa mengine, mbólea, vyakula au lishe zilizo ghalarini.

**Kusafisha tanki la kunyuniyza:**

Mara baada ya matumizi, vifaa yote ya kunyuniyza dawa visafishwe vizuri kuondoa uwezekano wa kuweka matabaka magumu ya dawa. Titirisha vifaa hivyo kwa maji. Suuza kinyunyizio na vuta maji masafi katika "hoses," "boom" na "nozzles". Safisha vifaa vingine yote husika. Wakati wa kufanya usafi wa hivi vitendeza kazi, fuata masharti na tahadhar za usalama. Usifanyile usafi karibu na visima ya maji, vyando vya maji au mimea. Ioa maji ya kuoshea vifaa ukizingatia kanuni za mamlaka husika.

**Utupaji:**

Usichafue maji, vyakula au lishe za wanyama wakati wa kuhifadhi au kutupa masalia ya dawa. Masalia yote yatupwe mahali palipoihinshiwa na mamlaka husika.

Osha chombo kitupu cha dawa mara tatu, toboa mashimo na utupe mahali stahiki kulingana na idhini ya mamlaka husika.

Usitumie tena chombo kilichokuwa kinahifadhi dawa kwa matumizi yeyote mengine.

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**MADHARA KWA MAZINGARA**

Ina madhara kwenevi viumbe ya maji, na inaweza kusabibisha madhara yenyekudumu kwa mazingara ya majini.

**Taratibu za huduma ya kwanza:**

- **Maagizo ya kawaida:** Usimlishe kitu chochote mtu asiyekuwa na fahamu.
- **Ikvutwa na pumzi:** Mwone mtaalam wa tiba kama umevuta kwa muda mrefu.
- **Ikigusa ngozi:** Osha ngozi vizuri na maji. Nguo zenye dawa zioshwe kabla hajizatumwa tena.
- **Ikigusa jicho:** Osha jicho kwa maji mengi likiwa limefunguliwa. Ikibidi mwone mtaalam wa tiba.
- **Ikimezwa:** Ikibidi mwone mtaalam wa tiba.

**PELEKA MJERUH KWA DAKTARI**

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

**ILANI KWA MTUMIAJI:**

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



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