


PLEMAX[®]

Reg. no. L10246 Act/Wet 36 of/van 1947

**READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

GROUP	22A & 15	INSECTICIDE
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A suspension concentrate insecticide with chitin-inhibiting, contact and stomach action for the control of pests as listed on apples, pears, maize and sweetcorn.	'n Suspensiekonsentraat-insekdoder met chitien-inhiberende, kontak- en maagaksie vir die beheer van plae soos gelys in appels, pere, mielies en soetmielies.
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 <p>DANGER</p>	<p>Hazard statements Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.</p> <p>Precautionary statements Do not breathe dust/fume/gas/mist/vapours/spray. Collect spillage.</p>
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ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL

indoxacarb (oxadiazine)	240 g/L indoxacarb (oksadiasien)
novaluron (benzoylphenyl urea)	80 g/L novaluron (bensoïelfenielureum)

NET VOLUME/NETTO VOLUME

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REGISTRATION HOLDER/REGISTRASIEHOUER
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UN no.: 3082

In case of poisoning, call the following numbers:
Griffon Poison Information Centre: +27 82 446 8946 or
Tygerberg Poison Information Centre: +27 861 555 777

Emergency number:
SPILL TECH: +27 86 100 6366 or +27 83 253 6618

Batch number	Lotnommer
Date of manufacture	Datum van vervaardiging
Expiry date	Vervaldatum

V5.0 31/05/2024 p 1/6

WARNINGS

- Causes damage to organs through prolonged or repeated exposure.
- Very toxic to aquatic life with long lasting effects.

Withholding periods (minimum number of days between last application and harvest):

Apples, pears	28 days
Maize(not for feeding)	56 days

- Handle with care.
- May cause sensitization by skin contact.
- Store in a cool, dry and well-ventilated place away from food, feedstuffs, seeds and fertilizers.
- Do not apply by air.
- **Re-entry:** Do not enter treated area until spray deposit has dried, unless wearing protective clothing.
- In case of poisoning call a physician and show this label to him/her.

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 pest to 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, and 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

- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Read label before use.
- Get medical help if you feel unwell.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Wash face, hands and any exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.

- Avoid release to the environment.
- Collect spillage.
- Dispose of contents/ container to an approved waste disposal plant.

- Wear protective clothing, face shield and gloves when handling the concentrate.
- Take off contaminated clothing and wash clothing daily.
- Avoid spray drift onto adjacent areas, other crops, grazing, rivers, dams, other water sources and areas not under treatment.
- After use, clean applicator and discard wash water where it will not contaminate grazing, rivers, dams or crops.
- Invert the empty container over the spray tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water of at least 10 % of that of the container. Add the rinsings to the contents of the spray tank before destroying the empty container.
- Destroy the empty container by perforating and flattening it and NEVER re-use for any purpose.
- Prevent contamination of food, feedstuffs, eating utensils and drinking water.

RELEVANT SUBSTANCES

Chemical name	w/w %	CAS no.
Indoxacarb	10 – 30%	144171-61-9
Novaluron	<10%	116714-46-6
Poly(oxy-1,2-ethanediyl),alpha.-sulfo- .omega.-[tris(1-phenylethyl)phenoxy - , ammonium salt	<10%	119432-41-6

FIRST AID

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider: Pay attention to self-protection.

Take the container label or product name with you when seeking medical attention.

Eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

Inhalation: Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

Ingestion: If conscious, rinse mouth thoroughly with water. Drink plenty of water. Never give anything by mouth to an unconscious or convulsing person. If spontaneous vomiting occurs, have

victim lean forward with head down to avoid breathing in of vomit, rinse mouth and administer more water. Get medical attention immediately if symptoms occur.

TOXICOLOGICAL INFORMATION

Antidotes

No specific antidote. Treat symptomatically.

Symptoms of human poisoning

None known.

NOTICE TO THE USER: This agricultural remedy is to be used only in according to the directions of this label. It is an offense under the Act to use this product inconsistent with the directions on the label.

RESISTANCE WARNING

For the purpose of resistance management **PLEMAX**[®] is classified as a group code 22A and 15 insecticides. Any insect population may contain individuals naturally resistant to **PLEMAX**[®] and other group code 22A and 15 insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **PLEMAX**[®] or any other group code 22A and 15 insecticides.

To delay insecticide resistance:

- Avoid exclusive repeated use of insecticides from the same insecticide group code. Alternate or tank-mix with products from different insecticide group codes.
- Integrate the control methods (chemical, cultural, biological) into insect control programmes.

For specific information on resistance management contact the registration holder of this product.

MODE OF ACTION

22A: Voltage-dependent sodium channel blockers – Block sodium channels, causing nervous system shutdown and paralysis. Sodium channels are involved in the propagation of action potentials along nerve axons.

15: Inhibitors of chitin biosynthesis affecting CHS1 – inhibit the enzyme that catalyses the polymerisation of chitin.

USE RESTRICTIONS

- Do not use on Comice pears.
- Do not use in grape vines or allow the spray to drift over vines, as novaluron could be phytotoxic to grapes.

DIRECTIONS FOR USE

Use only as indicated.

General

PLEMAX[®] is a combination of two active substances with different modes of action, namely indoxacarb and novaluron.

Indoxacarb belongs to the oxadiazine class, and is a broad-spectrum Lepidoptera insecticide, which is also active against certain other pests. Though mainly acting through ingestion, it can also be absorbed through the cuticle. Indoxacarb acts by blocking sodium ion movement into certain nerve cell ion channels, leading to paralysis and death of the pest.

Novaluron, an insecticide of the benzoylphenyl urea class, is an insect growth regulator and therefore disrupts normal growth and development of immature insects. It inhibits chitin synthesis, affecting the moulting stages of insect development, and acts as an ovicide and larvicide. It acts mainly by ingestion, but has some contact activity.

Compatibility

When **PLEMAX[®]** is tank mixed with other insecticides or fungicides, it is advisable always to carry out a physical compatibility test prior to application.

Mixing instructions

Half fill the spray tank with clean water. Pre-mix the required quantity of **PLEMAX[®]** in a small volume of water and add to the spray tank while agitating. Fill the spray tank with water to the required volume. Ensure constant effective agitation during mixing and application. Only prepare enough spray mixture for one day's use. Spray mixture should not be allowed to stand overnight

APPLICATION

PLEMAX[®] can be applied with a suitable, correctly calibrated air-assisted sprayer, equipped with an efficient agitation mechanism, and that will be able to distribute the spray mixture evenly over the target area.

APPLICATION RATES

CROP AND TARGET	DOSAGE	REMARKS
Apples and pears Codling moth (<i>Cydia pomonella</i>) Banded fruit weevil (snoutbeetle) (<i>Phlyctinus callosus</i>)	30 ml/100 L water	Apply a maximum of three applications of PLEMAX[®] per season, starting at 75% petal fall. Apply as a full cover spray, ensuring thorough coverage. Calculate the spray volume to be applied per hectare according to the tree-row-volume formula described by Unrath. To avoid the development of resistance, apply products with a different mode of action against the next codling moth generations or when further applications for control of banded fruit weevil are required. Note that to obtain the maximum ovicidal effect from novaluron, it is recommended that the first



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CROP AND TARGET	DOSAGE	REMARKS
		<p>application of a product containing novaluron is made just before flowering.</p> <p>Do not apply more than 4 applications of products containing novaluron or 3 applications of products containing indoxacarb per season.</p>
<p>Maize Fall army worm (<i>Spodoptera frugiperda</i>)</p>	<p>400 ml/ha</p>	<p>Apply PLEMAX[®] when the first signs of the pest are noticed. Preferably start with control measures as soon as pest is observed in the production region.</p> <p>Apply early in the life cycle of the pest when eggs and small larvae are present, and before larvae migrate into the maize ears. Application of PLEMAX[®] to fall army worms larger than 1 cm is not recommended.</p> <p>Apply PLEMAX[®] only once per season.</p> <p>Use a spray volume of at least 250 to 300 L water per hectare, and ensure full coverage of the crop. Apply into the funnel of the maize plants and ensure thorough coverage of the foliage of the plants.</p> <p>Apply PLEMAX[®] in an integrated pest management programme, alternating with products with a different mode of action, at intervals of 7 days.</p>