



# NeemAzal™

Reg. No. L7840 Act No. 36 of 1947

**GROUP 26 INSECTICIDE**

An Azadirachtin-based botanical insecticide with antifeedant, repellent, and insect growth regulating properties for the control of codling moth on apples and pears.

'n Azadiragtin-gebaseerde botaniese insekdoder met voedwerende, afwerende en groeiregulerende eienskappe vir die beheer van kodlingmot in appels en pere.

**Active ingredient / Aktiewe bestanddeel:**  
Azadirachtin / Azadiragtin ... 12 g/ℓ



Registered by / Geregistreer deur:  
**KLUB M5 (Pty.) Ltd.**  
Reg. No. 2006/023059/07  
84 Swart Street | Eldoraigine X3 | Centurion  
+27 12 653 1782

Griffon Poison Information Centre: +27 82 446 8946

BATCH NO.:  
LOT NR.:

DATE OF MANUFACTURE:  
VERVAARDIGINGSDATUM:

EXPIRY DATE:  
VERVALDATUM:

UN NO.:  
VN NR.:

Content  
Inhoud



IMPORTANT / BELANGRIK:  
Read label before use /  
Lees etiket voor gebruik

NeemAzal is a registered trademark of E.I.D. Parry.



**CAUTION  
VERSIGTIG**



# NeemAza™

Reg. No. L7840 Act No. 36 of 1947

An Azadirachtin-based botanical insecticide with antifeedant, repellent, and insect growth regulating properties for the control of Codling Moth on Apples and Pears.

'n Azadiragtin-gebaseerde botaniese insekdoder met voedwerende, afwerende en groeiregulerende eienskappe vir die beheer van Kodlingmot in Appels en Pere.

GROUP	26	INSECTICIDE
-------	----	-------------

## ACTIVE INGREDIENT / AKTIEWE BESTANDDEEL:

Azadirachtin / Azadiragtin ..... 12 g/l

Registered by: **KlubM5** (Pty) Ltd  
Co. Reg. No.: 2006/023059/07

P O Box 7402, Centurion, 0046

Tel: +27 12 653 1782

**Griffon Poison Information Centre: +27 82 446 8946**



## WARNINGS:

- Handle with care.
- Can irritate skin and eyes – therefore avoid skin and eye contact.
- Harmful if swallowed.
- Toxic to fish, aquatic organisms, and bees.
- Always store the product under lock and key, sealed in its original container in a cool, dry place away from food and feedstuffs.
- Keep out of reach of children, uninformed persons, and animals.

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 conditions such as abnormal soil, climatic and storage conditions; compatibility with other substances not indicated on the label and the occurrence of resistance of the pest against 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, the environment, or harm to man or animal or for the 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:

- Do not inhale the spray mist.
- Wash with soap and water immediately after accidental skin contact and after use.
- Wash contaminated clothing daily.
- Do not let the product or spray mist get into the eyes. In case of eye contact, immediately flush with plenty of water.
- Do not eat, drink, or smoke whilst using the product and before washing the hands and face.
- Thoroughly clean spray equipment after use. Dispose of rinse water where it will not contaminate crops, pastures, rivers, and dams.
- Invert empty container over the spray or mixing tank and allow to drain for a minimum of 30 seconds after the flow has slowed

down to a drip. Thereafter rinse the empty container three times with a volume of water equal to a minimum of 10% of that of the container and add the rinsing water to the contents of the spray tank.

- **TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS:** Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank.
- Puncture the triple rinsed container and dispose of via an approved collector or recycler ([www.croplife.co.za](http://www.croplife.co.za)).
- Do not bury, burn, or donate the container to any other parties that may use it as a container for food or beverages.
- Avoid contamination of food, feedstuffs, drinking water and eating utensils.
- Avoid spray drift onto other crops, grazing, rivers, dams, or areas not under treatment.
- Keep animals and children away from stacked and spilt material.

## FIRST AID TREATMENT:

- **Eye contact:** Causes moderate eye irritation. Hold eye open and rinse slowly and gently with clean water for 15 – 20 minutes. Remove contact lenses, if applicable, after first 5 minutes and then continue rinsing eyes.
- **Skin contact:** Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Remove contaminated clothing and wash all exposed areas with plenty of soap and water. Seek medical attention if skin irritation persists.
- **Inhalation:** Move the patient to fresh air.
- **Ingestion:** Immediately give several glasses of water and induce vomiting by tickling the back of the throat. Repeat until fluid is clear and free from the smell of the product.

## USE RESTRICTIONS:

- **Expiry date:** **NEEMAZAL** has a shelf life of at least 2 years after date of manufacture if properly stored.
- **Storage conditions and temperature:** Store in the original sealed container in a cool, dry, and dark place. Do not store **NEEMAZAL** above 35°C or below freezing point (0°C).
- **pH of spray mixture:** For optimal performance, the spray mixture must be buffered to a pH of 5,0 with a suitable buffering / acidifying product such as **UPGRADE 700<sup>PLUS</sup>**. A pH above 5,0 will progressively cause the breakdown of **NEEMAZAL** and result in a reduced level of insecticidal activity.
- **Number of applications:** Do not apply **NEEMAZAL** more than 5 times per season.
- **Rain fastness:** If more than 10 mm of precipitation falls on a treated crop within 24 hours, a repeat application should be done after 5 days. Add **BreakThru** to enhance the residuality of **NEEMAZAL**. Consult the Distributor in case of any uncertainty.

## RESISTANCE WARNING:

For resistance management purposes **NEEMAZAL** is classified as a Group Code 26 insecticide. Any insect population may contain individuals naturally resistant **NEEMAZAL** and other Group Code 26 insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly.

**NEEMAZAL** or any other Group 26 insecticide may not control these resistant insects. 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 other control methods (chemical, cultural, biological) into insect control programmes.

For specific information on resistance management, contact KlubM5 (Pty) Ltd.

**DIRECTIONS FOR USE:** Use only as indicated.

## Cleaning of spray equipment:

Spray equipment used to apply **NEEMAZAL** must be thoroughly chemically cleaned as follows before use:

- Drain the entire applicator system.

- Flush the whole system with clean water and drain again.
- Fill the tank to 100 ℓ with water and add 1 ℓ of either 3 % household ammonia or 3.5 % sodium hypochlorite (Jik). Circulate the spraying system for 10 minutes and open the nozzles for at least 5 minutes. Dump the remaining liquid.
- Repeat the previous step.
- Flush the whole system thoroughly with clean water.

### Mixing instructions:

- Shake well before using.
- Fill the spray tank with at least half of the water to be sprayed and add the required amount of **UPGRADE 700<sup>PLUS</sup>** to buffer to pH 5,0 and then add the required amount of **BreakThru**.
- Now add the required amount of **NEEMAZAL** for the full tank load with the agitator running.
- Agitate the mixture thoroughly and then fill the tank with the remaining water and continue agitation.
- Thorough mixing is necessary for uniform coverage. Inadequate mixing can result in lowered efficacy.
- For tank mixes, add other products to the tank already containing the **NEEMAZAL** spray mix and agitate thoroughly.
- If the tank mixture is allowed to stand for a while, agitation is necessary prior to application.
- Always use **NEEMAZAL** promptly after mixing with water and do not let the tank mix stand for any extended period.

### Compatibility:

- **NEEMAZAL** is compatible with most commonly used pesticides and fertilizers.
- Captan should not be used in tank mixes with **NEEMAZAL**.
- To avoid problems, conduct a compatibility test before using this product in a tank mix with other pesticides or with fertilizers as follows:
  - Mix a small amount of each product in the appropriate proportions in the water which will be used for spraying in a transparent container.
  - Shake well and check for any unusual phenomena such as settling out, oil appearing on the surface or the emulsion becoming thick.

### Phytotoxicity:

- Testing a small portion of the area to be treated for phytotoxicity is recommended before treating the entire area.
- Testing for phytotoxicity of tank mixtures is also recommended.
- The addition of spray adjuvants may under ideal conditions enhance efficacy, but the addition of certain adjuvants may cause phytotoxicity.
- It is, therefore, recommended that the addition of crop oils and other adjuvants be thoroughly tested on a small scale before use. Captan, Bordeaux mixture, and highly alkaline products may cause unacceptable phytotoxicity and/or reduced effectiveness on target pests.
- Tank mixes of **NEEMAZAL** plus products known to be incompatible with oil-based formulations should be avoided or phytotoxicity may occur.

### Application:

- For optimal performance apply the product as soon as pests are expected or when pests first appear and are still in the immature stages.
- Apply **NEEMAZAL** in sufficient spray volume and with adequate spray pressure to ensure complete and thorough coverage of all plant surfaces including the top and bottom of leaves.
- Avoid excessive runoff.
- Best results will be obtained after 2 – 3 applications made at 10 – 14 day intervals.
- When pest pressure is heavy or plant canopy is dense, use the shorter spray interval.
- Spraying in the morning or evening hours will provide the best results.
- Repeat application after 5 days if rain occurs within 24 hours of spraying.

CROP	PEST	DOSAGE/100 ℓ water	REMARKS
APPLES & PEARS	Codling moth ( <i>Cydia pomonella</i> )	300 mℓ + 50 mℓ <b>UPGRADE 500</b> + 50 mℓ <b>BreakThru</b>	Apply as a high volume full cover spray from onset of flowering and repeat at least 2 – 3 times at 10 – 14 day intervals. Do not apply more than 5 times per season.  When <b>NEEMAZAL</b> is sprayed alone or in tank mixes with other crop protection remedies, always buffer the spray mix to pH 5, 0 with <b>UPGRADE 500</b> .  <b>Note:</b> <b>NEEMAZAL</b> can be applied up to 24 hours before harvest.

**NeemAza** is a registered trademark of E.I.P. Parry.

**BreakThru** is a registered trademark of Evonik Degussa Africa (Pty) Ltd Co.

**UPGRADE 700<sup>PLUS</sup>** is a registered trademark of Klub M5.

**BreakThru** (L6764 Act 36 of 1947, registered by Evonik Degussa Africa (Pty) Ltd Co) Polyether-Polymethylsiloxane-Copolymer 1000 g/ℓ | Evonik Degussa Africa (Pty) Ltd Co | Reg. No.: 1976/002340/07  
P.O. Box 3404, Halfway House, 1685.

**UPGRADE 700<sup>PLUS</sup>** (L6825 Act 36 of 1947, registered by Klub M5) CAUTION, Organic Buffer 428 g/ℓ, Alkyl Polyglucocide 198 g/ℓ.