

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

RESTRICTED USE AGRICULTURAL REMEDY

THIS REMEDY IS RESTRICTED DUE TO ACUTE TOXICITY. THIS REMEDY MAY ONLY BE SOLD TO AND USED BY A REGISTERED PEST CONTROL OPERATOR, OR BY SOMEONE UNDER THE SUPERVISION OF A REGISTERED PEST CONTROL OPERATOR, AND ONLY FOR THOSE USES COVERED BY THE PEST CONTROL OPERATOR'S SCOPE OF REGISTRATION, AND ONLY AS DIRECTED ON THIS LABEL.



Insecticide

KARBA 850 WP

Reg. No. L 1195 Act No. 36 of 1947

6: 15/01/2025 – Jan2025

A wettable powder contact and stomach insecticide for garden, household, public health and agricultural uses as listed.

ACTIVE INGREDIENT
carbaryl (carbamate)

850 g/kg

GROUP

1A

INSECTICIDE



DANGER

Hazard Statements:

Fatal if swallowed.
Fatal in contact with skin.
Harmful if inhaled.
Suspected of causing cancer.
Very toxic to aquatic life.

Precautionary Statements:

IF SWALLOWED: Immediately call a POISON CENTER.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Avoid release into the environment.

kg

villa



UN Number: 2757

Registration holder: VILLA CROP PROTECTION (PTY) LTD.
Co. Reg. No. 1992/002474/07
656 Botes Road, Glen Marais, Kempton Park, 1619
Tel. (011) 396 2233
Website: www.villacrop.co.za

IN CASE OF POISONING / 24 HR EMERGENCY NUMBERS:
Griffon Poison Information Centre (National) : +27 82 446 8946
Poison Information Helpline (National): +27 861 555 777
24 Hr Transport / Spill emergency no: (Hazcall24) +27 86 044 4411
(Client: Villa Crop Protection)

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

DIRECTIONS FOR USE ENCLOSED
Batch Number: _____
Expiry Date: _____
Date of Manufacture: _____

KARBA 850 WP

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 IRAC INSECTICIDE GROUP CODE: 1A

ACTIVE INGREDIENT:

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 65 Botes Road, KEMPTON PARK, 1619
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WARNINGS**Withholding periods:**

Minimum time between the last application and harvest or feeding:	
Lucerne	1 day before baling, 14 days before grazing
Prickly pears	1 day
Cotton and Maize	7 days
Tobacco	14 days
Table grapes	4 to 6 weeks
Other crops as mentioned	14 days

NOTE:

IN THE CASE OF CROPS INTENDED FOR EXPORT, CONFIRM WITHHOLDING PERIODS WITH THE RELEVANT EXPORT ORGANISATION. IF THIS PRODUCT IS USED ACCORDING TO THE RECOMMENDATIONS ON THIS LABEL, LOCAL MRL VALUES WILL NOT BE EXCEEDED. HOWEVER, VILLA CROP PROTECTION (PTY) LTD. CANNOT ACCEPT RESPONSIBILITY FOR EXPORTED CROPS EXCEEDING THE IMPORT TOLERANCES OF OTHER COUNTRIES.

Hazard statements:

Fatal if swallowed.
Fatal in contact with skin.
Harmful if inhaled.
Suspected of causing cancer.
Very toxic to aquatic life.

- Handle with care.
- Toxic to bees and wildlife.
- Store away from food and feeds.
- Keep out of reach of children, uninformed persons and animals.
- Keep container well closed.
- Can cause staining of lime washed surfaces.
- Re-entry: Do not enter treated area within 1 day after treatment unless wearing protective clothing.
- **In case of poisoning call a doctor and make this label available 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, 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 further does not accept responsibility for damage to crops, vegetation, 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 event of any uncertainty.

PRECAUTIONS

Precautionary statements:

Obtain, read and follow all safety instructions before use.
Avoid breathing dust, fume, gas, mists, vapours or spray.
Do not get in eyes, on skin, or on clothing.
Wash hands and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Avoid release into the environment.
Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
IF SWALLOWED: Immediately call a POISON CENTER.
IF ON SKIN: Wash with plenty of water and non-abrasive soap.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If exposed or concerned, get medical advice.
Rinse mouth.
Take off immediately all contaminated clothing and wash before reuse.
Collect spillage.
Store locked up.
Dispose of content/container to suitable landfill in accordance with local regulations.

- Wash contaminated clothes after use.
- Prevent drift onto other crops, grazing, rivers, dams and areas not under treatment.
- Do not apply near fishponds, fishbowls and aquaria.
- Clean applicator after use and dispose of wash water where it will not contaminate food, grazing, rivers or dams.
- **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). Do not bury, burn, or donate the container to any other parties that may use it as a container for food or beverages.
- Destroy the empty container by perforation and flattening and dispose of it in a safe manner.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

SYMPTOMS OF HUMAN POISONING

Carbaryl is a carbamate compound, which inhibits cholinesterase. Systemic effects may begin within a few minutes or several hours of exposure. Initial symptoms can be nasal hyperaemia, watery discharge, chest discomfort and wheezing. Other symptoms may include nausea, vomiting, diarrhoea, abdominal cramps, headache, vertigo, tightness of the chest, anxiety, ocular pain, ciliary muscle spasm, blurred vision, small pupils, or mydriasis, lacrimation, salivation, sweating, and confusion.

In severe cases, there may be involuntary defecation, bradycardia, hypotension, pulmonary oedema, convulsions, coma and death from respiratory failure or cardiac arrest.

FIRST AID TREATMENT

- Remove the patient immediately from the source of poisoning to a cool, well-ventilated area and keep him/her calm and reassured. If breathing has stopped, give mechanical artificial respiration (not direct mouth-to-mouth). Qualified personnel should perform administration of oxygen. Get medical attention immediately.
- Inhaled: Maintain airway and administer oxygen if available. Keep affected person warm and at rest.
- Skin contact: Remove contaminated clothing immediately and rinse contaminated body area thoroughly with plenty of soap and cold water, followed by alcohol. Do not rub the skin. Emergency personnel should wear gloves and avoid contamination.
- Eye contact: Flush contamination out of eyes with clean, lukewarm, gently flowing water for at least 20 minutes, while holding eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face.

- **Swallowed:** If swallowed, rinse mouth thoroughly with water and immediately get medical attention. If the person is alert and respiration is not depressed, give syrup of Ipecac followed by water or activated charcoal if instructed. If vomiting occurs, keep head below hips to prevent aspiration. Establish and maintain airway.
- **Never** give anything by mouth to an unconscious person.
- **Take the person to a physician immediately.**

NOTE TO PHYSICIAN

If consciousness level declines or vomiting has not occurred in 15 minutes, empty stomach by gastric lavage. Avoid aminoglycosides and succinylcholine. Phenothiazines, reserpine, theophylline, morphine, Pralidoxime (2-PAM, Protopam) and other oximes are contra-indicated.

Antidote: Administer atropine sulphate intravenously or intramuscularly. In moderately severe poisoning administer atropine sulphate, 0.4 to 2.0 mg repeated every 15 minutes, until atropinization is achieved (dry, flushed skin, dry mouth and tachycardia). Maintain atropinization by repeated doses for 2 to 12 hours, or longer, depending on the severity of poisoning.

<u>Relevant hazardous components</u>	
Carbaryl Technical 99%	850 g/kg
Calcium lignosulfonate	<50 g/kg
Sodium diisobutyl naphthalene	<10 g/kg

NOTE: The ingredients listed above contribute to the overall GHS classification, the remaining ingredients do not have to be listed according to the South African Regulations for Hazardous Chemical Agents 2021, Regulation 14(b).

In case of poisoning, call the following number: +27 82 446 8946 (Griffon Poison Information Centre) or +27 861 555 777 (Poison Information Helpline).

In case of a chemical spill call the following 24 Hr Transport / Spill emergency number: +27 86 044 4411 (Hazcall24 / Client: Villa Crop Protection).

RESISTANCE WARNING

KARBA 850 WP is a group code 1A insecticide. Any insect population may contain individuals naturally resistant to **KARBA 850 WP** and other group code 1A insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **KARBA 850 WP** or any other group code 1A insecticide.

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 the registration holder of this product.

MODE OF ACTION:

KARBA 850 WP is an insecticide active by contact and ingestion. It acts by inhibition of acetylcholinesterase (AChE) by irreversible reaction with the enzyme at the acetylcholine binding site, blocking hydrolysis of acetylcholine and resulting in hyperexcitation.

USE RESTRICTIONS

Apples:

- To avoid possible fruit thinning on apples, do not apply within 21 days after full bloom.
- **Do not** use as a thinning agent on other apple varieties than Starking, Granny Smith and Starkrimson.

Pears and Quinces:

- **Do not** apply to Keiffer and Forelle pear varieties and quinces.

Grapes:

- Cease application on dark skin grapes as soon as berries have started to colour.

DIRECTIONS FOR USE: Use only as directed.

- **KARBA 850 WP** must only be applied with a calibrated sprayer that is in good working order.
- Use the spray mixture without delay and do not allow standing for prolonged periods, e.g. overnight.

RESTRICTED USES: (Use only as directed)

This product is restricted due to acute toxicity. This remedy may only be sold to and used by a registered pest control operator, or by someone under the supervision of a registered pest control operator, and only for those uses covered by the pest control operator's scope of registration, and only as directed on this label.

NOTICE TO USER:

Read the entire label before application. This agricultural remedy is to be used only in accordance with the instructions on the label. It is an offence under the Act to use this agricultural remedy for any purpose in a manner contrary with the directions on the label.

Compatibility:

- The compatibility of **KARBA 850 WP** with other products may be influenced. As variable factors may vary, a physical compatibility test must always be performed before such tank mixture is sprayed.

pH of the spray water:

- The efficacy of **KARBA 850 WP** may be reduced by very hard water (> 1 000 ppm solutes) and by water with a high pH value.
- When **KARBA 850 WP** is used, the optimal efficacy thereof will be obtained in water with a pH between 4 to 5. Water of a higher or lower pH than 4 to 5 should be buffered to pH 4 to 5, by using a suitable buffer.
- Where a buffer is used to adjust the pH of the water, the buffer must be mixed with the total volume of water required for that particular tank mixture, before adding the **KARBA 850 WP**.

APPLICATION RATES

<i>Crop / Pest</i>	<i>Dosage rate</i>	<i>Remarks</i>
<u>All crops / General garden pests</u> Army worm	310 g / ha	Spray when necessary.
Chafer Beetles	125 g / 100 ℓ water OR 12.5 g / 10 ℓ water (2 level scoops)	Apply regularly onto young growth as soon as the pest appears.
Elegant Grasshopper	125 g / 100 ℓ water OR 12.5 g / 10 ℓ water (2 level scoops)	Apply when immature stages are noticed.
<u>Apples and Pears</u> Codling moth	60 g / 100 ℓ water OR 6 g / 10 ℓ water (1 level scoop)	Commence spraying at 75 % petal drop and follow up with 5 to 6 additional sprays at 14 to 21 day intervals.
Leaf-roller	125 g / 100 ℓ water OR 12.5 g / 10 ℓ water (2 level scoops)	Using the dosage rate of 60 g per 100 litres water OR 6 g per 10 litres water in a complete Codling moth spray programme, will give effective control of Leaf-roller. If a single spray is required, apply as indicated.

Crop / Pest	Dosage rate	Remarks
Pear Bud Mite	60 g / 100 ℓ water OR 6 g / 10 ℓ water (1 level scoop)	If used in a complete Codling moth spray programme, Pear bud mite will be controlled, providing that at least one application is performed before the end of the third week in November.
Apples Chemical fruit thinning of some apple varieties	Apply 14 to 17 days after full bloom. Do not mix with other chemicals.	
	30 g / 100 ℓ water	<u>Starking</u> : In case of heavy fruit set, the concentration can be increased to 60 g per 100 litres water.
	15 g / 100 ℓ water	<u>Granny Smith</u> : In case of heavy fruit set, the concentration can be increased to 30 g per 100 litres water. Spray only on trees older than 5 years.
	90 g / 100 ℓ water	<u>Starkrimson</u> :
Apricots, Apples and Pears Mealybug	125g / 100 ℓ water OR 12.5 g / 10 ℓ water (2 level scoops)	Commence treatment early in December. Follow up with 1 to 2 additional treatments, depending on the degree of infestation. Do not spray after middle January, as later applications will not control the pest satisfactorily.
Maize Chafer beetle	125 g / 100 ℓ water	Apply as a full cover spray to wet plants thoroughly. Apply 250 litres of spray mixture per hectare.
Armyworm		Spray when the infestation is noticed. Apply 250 litres of spray mixture per hectare.
Cotton Red bollworm, Spiny bollworm, Stainers, Syagrus beetle & Leafhoppers	600 g / 100 ℓ water 0.75 to 1.5 kg / ha (Maximum 1.5 kg / ha)	Commence application when the first squares develop and damage is noticed. Apply as a full cover spray. Repeat at 5 to 7 day intervals. Use up to 250 litres of spray mixture per hectare.
Castor Oil Castor oil looper (<i>Achaea</i> spp.)	125 g / 100 ℓ water	Start spraying as soon as Loopers are noticed.
Tobacco African bollworm & Tobacco slug	125 g / 100 ℓ water	Apply a full cover spray as soon as the pest appears. Repeat application when necessary.
Lucerne Lucerne caterpillar	625 to 850 g / ha	Spray when infestation is noticed. Dosage depends on stage of growth of lucerne.
Grape vines Mealybug	125 g / 100 ℓ water OR 12.5 g / 10 ℓ water (2 level scoops)	Commence spraying as soon as Mealybugs are noticed at the base of young shoots. Repeat applications every 3 weeks if necessary. KARBA 850 WP treatments against Mealybugs, will assist in the control of Vine snout beetles.
Cactus- and Spineless pears Cactoblastis & Cochineal	175 g / 100 ℓ water OR 17.5 g / 10 ℓ water (3 level scoops)	Spray for Cactoblastis during the first two weeks of November and March respectively. Applications for Cochineal may be performed any time of the year. High pressure and thorough wetting is essential. Add a wetting agent such as Villa 51 .

Crop / Pest	Dosage rate	Remarks
<u>Flowers, Ornamentals and Lawns</u> African bollworm	125 g / 100 ℓ water OR 12.5 g / 10 ℓ water (2 level scoops)	Apply as a full cover spray, as soon as the pest is noticed (usually during the blossom period).
Lawn caterpillar	450 g / 100 ℓ water OR 45 g / 10 ℓ water (7 ½ level scoops)	Apply as soon as damage is noticed. Use sufficient spray mixture, to ensure good coverage.

Crop / Pest	Dosage rate	Remarks
<u>Public health</u> Bedbugs in houses, barns, compounds & stores	60 g / 10 ℓ water OR 60 g / 10 ℓ water (10 level scoops)	Apply as a coarse droplet spray. Pay particular attention to the thorough treatment of bed frames, skirting boards, the inside of cupboards and drawers, cracks and crevices, behind unpainted wood surfaces and similar localities frequented by these insects. Do not close the room when spraying. Residual action is possible up to 60 days.
Fleas	15 g / 10 ℓ water OR 15 g / 10 ℓ water (2 ½ level scoops)	
<u>Hides and Skins</u> Dermestidae hide and Skin larvae	25 g / 10 ℓ water OR 25 g / 10 ℓ water (4 level scoops)	Apply generously as a coarse spray, or by means of a paintbrush, to hides and skins as well as to sheltering places, such as cracks and crevices in floors and walls. Ten litres of spray mixture will be sufficient to treat approximately 100 skins or 30 hides.
Wool-on-skin moth larvae	25 g / 10 ℓ water OR 25 g / 10 ℓ water (4 level scoops)	Apply as a coarse spray at the rate of 18 litres of spray mixture to 200 skins.

VILLA 51 is a registered product of
VILLA CROP PROTECTION (PTY) LTD.