

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

RESTRICTED USE AGRICULTURAL REMEDY
THIS REMEDY IS RESTRICTED DUE TO SEVERE OR IRREVERSIBLE ADVERSE EFFECTS ON HUMAN HEALTH OR THE ENVIRONMENT. THIS REMEDY MAY ONLY BE SOLD TO AND USED BY REGISTERED PEST CONTROL OPERATOR, OR BY SOMEONE UNDER THE SUPERVISION OF 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.

REFER TO DETAILS AS PRINTED ON CONTAINER / BAG

Insecticide



METHOMYL 200 SL

Reg. No. L 7100 Act No. 36 of 1947

4: 24/08/2022 – Oct2024

A water-soluble liquid insecticide for the control of pests on crops as indicated.

ACTIVE INGREDIENT
methomyl (carbamate)

GROUP 1A INSECTICIDE

200 g/l



DANGER

Hazard Statements:

Highly flammable liquid and vapour.
Toxic if swallowed.
Harmful if inhaled.
Causes damage to organs.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects

Precautionary Statements:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not breathe dust, fume, gas, mist, vapors, or spray.

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villa



UN Number: 2758

Registration holder: UNIVERSAL CROP PROTECTION (PTY) LTD.

Co. Reg. No. 1983/008184/07
65 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)

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

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IRAC INSECTICIDE GROUP CODE: 1A

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WARNINGS**Withholding periods:**

Minimum time which should be allowed between last application and harvest or grazing (feeding):	
Barley	35 days
Citrus - 90 ml per 100 l dosage rate	2 days
Citrus - higher than 90 ml per 100 l dosage rate	28 days
Cruciferae	4 days
Grain Sorghum, Lupins, Lucerne, Maize, Pastures, Tobacco (flue-cured) and Wheat	7 days
Peaches	16 days
Potatoes and Green beans	3 days
Tobacco (air-cured)	14 days
Tomatoes	2 days

IMPORTANT NOTES ON MRL'S:

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, UNIVERSAL CROP PROTECTION (PTY) LTD. CANNOT ACCEPT RESPONSIBILITY FOR EXPORTED FRUIT EXCEEDING THE IMPORT TOLERANCES OF OTHER COUNTRIES.

METHOMYL 200 SL MAY CAUSE YELLOWING OF LEAF TIPS WHEN USED ON CERTAIN CARNATION VARIETIES.

DO NOT USE METHOMYL 200 SL IN COMBINATION WITH G49 WETTING AGENT ON TOBACCO SEEDBEDS OR ON CITRUS.

Hazard statements:

Highly flammable liquid and vapour.
Toxic if swallowed.
Harmful if inhaled.
Causes damage to organs.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

- Handle with extreme care.
- Store under lock and key in a cool, dry, place away from food, feeds, fertilizers and drinking water.
- Keep container well closed.
- Keep out of reach of animals, children and uninformed persons.
- Re-entry: Do not enter treated area within 2 days after treatment unless wearing protective clothing.
- **In case of poisoning call a doctor immediately 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 climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the pests to 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:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective gear.
Use non-sparking tools.
Take action to prevent static discharges.
Do not breathe dust, fume, gas, mist, vapours, or spray.
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: Get emergency medical help immediately.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF exposed or concerned: Get emergency help immediately.
Rinse mouth.
In case of fire: Use carbon dioxide, dry powder, or alcohol-resistant foam to extinguish.
Collect spillage.
Store locked up.
Store in a well-ventilated place. Keep cool.
Dispose of content/container to suitable landfill in accordance with local regulations.

- Avoid contact with eyes, skin or clothing.
- Wash contaminated clothing daily after use with soap and water.
- In case of eye contact, wash immediately with running water.
- Prevent drift onto other crops, grazing, rivers, dams and any other area not under treatment.
- Clean applicator thoroughly 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.
- **Never** re-use the empty container for any other purpose.
- Prevent contamination of food, feeds, drinking water and eating utensils.

SYMPTOMS OF HUMAN POISONING

Methomyl is a carbamate compound, which inhibits cholinesterase. Systemic effects may begin within a few minutes or several hours of exposure. 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 bradycardia, hypotension, pulmonary oedema, convulsions, coma, and death from respiratory failure or cardiac arrest.

FIRST AID TREATMENT

- Remove patient immediately from 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 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.

Relevant hazardous components	
Methomyl	20.62 %
Methanol	< 50%

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

METHOMYL 200 SL is a group code 1A insecticide. Any insect population may contain individuals naturally resistant to **METHOMYL 200 SL** 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 **METHOMYL 200 SL** 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 or consult the website of the Insecticide Resistance Action Committee (<https://irac-online.org/>). If resistance is suspected, please consult your local company representative or agricultural advisor.

MODE OF ACTION

METHOMYL 200 SL is a systemic insecticide and acaricide with contact and stomach action (non-phytotoxic). It works through the inhibition of acetylcholinesterase (AChE) by covalent (irreversible) reaction with the enzyme at the acetylcholine binding site, blocking hydrolysis of acetylcholine and resulting in hyperexcitation.

RESTRICTED USE: Use only as directed.

THIS REMEDY IS RESTRICTED DUE TO SEVERE OR IRREVERSIBLE ADVERSE EFFECTS ON HUMAN HEALTH OR THE ENVIRONMENT. THIS REMEDY MAY ONLY BE SOLD TO AND USED BY REGISTERED PEST CONTROL OPERATOR, OR BY SOMEONE UNDER THE SUPERVISION OF 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.

Mixing instructions:

- Half fill the spray tank with clean water.
- First add the required quantity of **METHOMYL 200 SL** to a small quantity of water in a mixing tank. Agitate thoroughly, to ensure that the product is completely in suspension.
- Add the premixed **METHOMYL 200 SL** suspension to the water in the spray tank. Use mechanical or hydraulic agitation, to ensure thorough mixing, while the spray tank is slowly filled with water to the required level.
- Continue agitating the spray mixture constantly during mixing and spraying. Ensure thorough mixing.
- Spray the mixture immediately after mixing and do not allow to stand for long periods or do not leave overnight in the mixing tank.

APPLICATION RATES

Crop / Pest	Dosage Rate	Remarks
Barley African bollworm	900 ml / ha OR 225 ml / 100 l water	Start application as soon as an infestation is noticed after flowering in the soft dough stage of the ears. Ground application: Apply in up to 400 liters spray mixture per hectare and ensure complete coverage of the crop.
Cruciferae African bollworm, Aphids, Larvae of the Diamond-back moth & Greater cabbage moth	225 ml / 100 l water	Ground application: Apply when larvae first appear on the leaves. Use up to 500 liters spray mixture per hectare. Repeat the applications with 10-day intervals. During hot weather and peak infestation, shorten the spray intervals to 3 to 5 days. Ensure thorough wetting of the plants.
African bollworm	1125 ml / ha	Ground application: Apply in sufficient water, to ensure thorough coverage.
Citrus African bollworm & Aphids	90 ml / 100 l water	Apply as a light cover spray when aphids and/or larvae appear. Repeat when necessary.
Mealybug	90 ml / 100 l water	Apply as a full cover spray with a high-pressure sprayer as soon as young nymphs appear on the fruit. Repeat if necessary.
Orange dog caterpillar	115 ml / 100 l water	Apply as a light cover spray as soon as larvae are noticed.
Red Scale	450 ml PLUS 500 ml light narrow range mineral oil / 100 l water	Corrective treatment: Apply when 25 to 40 % of the fruit is infested with one or more live nymphs or adult Scales. WARNING <u>Fruit bearing trees:</u> Only one application must be performed between December and March for late cultivars. <u>Early cultivars:</u> Apply only one spray in December or January but not later than January. Do not apply with conventional citrus spray equipment.
Soft green scale	90 ml PLUS 500 ml narrow range mineral oil / 100 l water	Apply as a full cover spray with a high-pressure sprayer when the first visible signs of infestation are noticed. Do not use less than 500 ml mineral oil per 100 liters water.
Waxy scale	115 ml / 100 l water	Apply as a full cover spray with a high-pressure pump as young nymphs of a new generation move from the leaves to the twigs. This treatment will not be successful against adult Waxy scale.
Beans African bollworm	225 ml / 100 l water	Ground application: Apply the first application as soon as infestation is noticed. Repeat as necessary. Ensure good coverage of the plants and apply up to 500 liters spray mixture per hectare.

Crop / Pest	Dosage Rate	Remarks
<u>Carnations</u> Carnation worm	450 ml / 100 l water	Ensure good coverage of the whole plant. Repeat weekly.
<u>Maize</u> African bollworm	900 ml / ha	Ground application: Low volume. Apply in 100 to 200 liters water per hectare.
	225 ml / 100 l water	Ground application: Apply in up to 400 liters spray mixture per hectare.
<u>Peaches</u> False codling moth	225 ml / 100 l water	Early cultivars: Apply two sprays, ensuring that trees are thoroughly wetted. Apply the first spray 4 weeks before harvest and the second 10 days later. Also apply a registered product for Fruit fly control.
		Late cultivars: Apply three sprays beginning 6 weeks before harvest and repeat at 10-day intervals. Ensure good coverage of the trees. Also apply a registered product for Fruit fly control.
<u>Potatoes</u> Potato tuber moth & African bollworm	For Tuber moth, begin application as soon as the plants are one month old or sooner with early infestations and repeat applications weekly throughout the growing season. Covering of tubers by ridging is important particularly against Tuber moth. During the growth season potatoes must be ridged at least twice. For African bollworm one application is adequate to control a single outbreak. If further outbreaks occur, repeat application as necessary.	
	225 ml / 100 l water	Ground application: Ensure a good coverage and wetting of the plants. Apply up to 1000 liters spray mixture per hectare.
<u>Tomatoes</u> Leafminer, African bollworm, Semi- (Plusia) looper, Aphids & Thrips	225 ml / 100 l water	Apply as a full cover spray as soon as fruit begin to set or earlier if necessary and repeat at 7 to 10 day intervals, during the growing season.
<u>Tobacco</u> Leafminer, African bollworm, Tobacco slug & Stinkbugs	225 ml / 100 l water	Ground application: Apply when pests are noticed. For Leafminer, spray weekly and ensure thorough wetting of the plants. Apply up to 500 liters spray mixture per hectare.
<u>Grain Sorghum, Wheat, Lupins & Lucerne</u> African bollworm	900 ml / ha	Ground application: Low volume. Apply in 100 to 200 liters water per hectare.
	225 ml / 100 l water	Ground application: Apply in up to 400 liters spray mixture per hectare.
<u>Roses</u> Aphids	115 ml / 100 l water	Apply as a full cover spray. Repeat as necessary. Apply up to 500 liters spray mixture per hectare.
<u>Veldt, Grazing Cotton, Maize & Grain Sorghum</u> Army worms Fall army worm <i>Spodoptera frugiperda</i>	225 ml / ha	Ground application: Apply in 400 liters water as soon as pest is observed and repeat as necessary. Ensure thorough coverage of the target area. Do not exceed two (2) applications of METHOMYL 200 SL per season.