

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.


METHOMEX[®] 200 SL

Reg. no. L5253 Act/Wet 36 of/van 1947

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

GROUP	1A	INSECTICIDE
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A water-soluble liquid insecticide for the control of pests in crops as indicated.	'n Wateroplosbare vloeistof insekdoder vir die beheer van plae in gewasse soos aangedui.
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 <p>DANGER</p>	<p>Hazard statements Toxic if swallowed. May be harmful in contact with skin. Causes serious eye damage. Toxic if inhaled. Causes damage to organs. Highly flammable liquid and vapor Very toxic to aquatic life with long lasting effects.</p> <p>Precautionary statements Do not breathe dust/fume/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection.</p>
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ACTIVE INGREDIENT/AKTIEWE BESTANDEEL

methomyl (carbamate) 200 g/L metomil (karbamaat)

NET VOLUME/NETTO VOLUME

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REGISTRATION HOLDER/REGISTRASIEHOUER

ADAMA South Africa (Pty) Ltd;
 Reg. no. 1992/001741/07
 Ground Floor, Simeka House
 The Vineyard Office Estate, 99 Jip de Jager Drive
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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
 Date of manufacture
 Expiry date

Lotnommer
 Datum van vervaardiging
 Vervaldatum



GHS information

WARNINGS

- Toxic if swallowed.
- May be harmful in contact with skin.
- Causes serious eye damage.
- Toxic if inhaled.
- Causes damage to organs.
- Highly flammable liquid and vapour.
- Very toxic to aquatic life with long lasting effects.

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

Citrus: 90 g/100 L dosage	2 days
Citrus: greater than 90 g/100 L dosage	28 days
Cruciferae	4 days
Grain sorghum, maize, pastures, wheat, lupins, lucerne, tobacco (flue-cured)	7 days
Green beans	14 days
Hops	14 days
Peaches	16 days
Potatoes	3 days
Tobacco (air-cured)	14 days
Tomatoes	2 days

METHOMEX® 200 SL MAY CAUSE YELLOWING OF THE LEAF TIPS WHEN USED ON CERTAIN CARNATION VARIETIES.

DO NOT USE METHOMEX® 200 SL IN COMBINATION WITH WETTING AGENTS ON TOBACCO SEEDBEDS OR ON CITRUS.

- Handle with extreme care.
- Poisonous by contact, swallowing or inhalation: a small quantity may be fatal if swallowed or inhaled.
- Toxic to fish, bees and wildlife.
- Store under lock and key, away from foodstuffs and feed.
- In case of poisoning, call a doctor immediately and make this label available to him/her.
- **Aerial application:** Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not apply over water or adjacent areas that are not under treatment or allow the spray mist to drift over these areas.
- **Re-entry:** Do not enter treated area within 2 days after application unless wearing protective clothing.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not guarantee that it will be effective under all conditions. The activity 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 pests against the remedy 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 humans or animals or for lack of performance of the remedy concerned due to failure by 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

- Keep out of reach of children.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. no smoking.
- Ground or bond container and receiving equipment and take precautionary measures against static discharge.
- Use explosion-proof electrical/ventilation/ lighting/other equipment and non-sparking tools.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Wash face, hands and any exposed skin thoroughly after handling. Do not touch eyes.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Avoid release to the environment.
- If exposed or concerned: get medical advice/attention.
- IF SWALLOWED: Get emergency medical help immediately. Rinse mouth. Specific treatment (see supplemental first aid instructions on this label).
- IF ON SKIN (OR HAIR): Remove/take off immediately all contaminated clothing. rinse skin with water/shower. Get medical help.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get emergency medical help immediately. Specific treatment (see supplemental first aid instructions on this label).
- IF IN EYES: Immediately rinse with water for several minutes. remove contact lenses if present, and easy to do. Get medical help.
- IN CASE OF FIRE: use dry sand, dry chemical or alcohol-resistant foam to extinguish.
- Store locked up in cool, well-ventilated place. Keep container tightly closed.
- Collect spillage.
- Dispose of contents/container to a licensed waste facility and in accordance with local and national regulatory requirements.

- Avoid contact with eyes, skin or clothing.
- Wash contaminated clothing daily.
- In case of skin contact wash thoroughly with soap and water.
- Prevent drift of spray onto other crops, grazing, rivers, dams and any area not under treatment.
- Prevent contamination of food, feeds, drinking water and eating utensils.
- Clean applicator before using for other materials and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.
- Rinse empty container three times with a volume of water that is equal to 10% of the container. Add the rinsings to the spray tank.
- Destroy empty container in the prescribed manner and never use for any other purpose.

RELEVANT SUBSTANCES

Chemical name	w/w %	CAS no.
Methomyl	>60%	16752-77-5
Methanol	30–70%	67-56-1

FIRST AID

Poison, may be fatal or cause blindness if swallowed. Acetylcholinesterase Inhibiting Pesticides. 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.

Immediately remove contaminated clothing and remove the affected person from the contamination area. Keep the person warm, calm and covered up.

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

Eye contact: Rinse/flush the eyes gently with water from the eye wash fountain for several minutes (at least 15 minutes), while holding the eyelids apart. Check for and remove contact lenses if easy to do so. Continue rinsing. Obtain medical attention if irritation occurs and persists.

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: Get immediate medical advice/attention. Rinse mouth. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. Immediate medical attention is required.

TOXICOLOGICAL INFORMATION

Notes to physician and antidotes

ANTIDOTE: Atropine sulphate. Contains: methanol.

Most important symptoms/effects, acute and delayed

Symptoms: Acetylcholinesterase Inhibiting Pesticides. May cause blindness if swallowed.

RESISTANCE WARNING

For resistance management, **METHOMEX® 200 SL** is classified as a group code 1A insecticide. Any insect population may contain individuals naturally resistant to **METHOMEX® 200 SL** and other group 1A code insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. The resistant insects may not be controlled by **METHOMEX® 200 SL** or any other group 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 codes.
- For tank mixing or alternation with products in other insecticide group codes, refer to applicable product labels.
- Integrate control methods (chemical, cultural and biological) into disease control programs.

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

MODE OF ACTION

1A: Acetylcholinesterase (ACHE) inhibitors – Inhibit ACHE, causing hyperexcitation. ACHE is the enzyme that terminates the action of the excitatory neurotransmitter acetylcholine at nerve synapses.

DIRECTIONS FOR USE

Use only as indicated.

NOTICE TO THE USER: This agricultural remedy is to be used only 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.

Mixing instructions

Add the required amount to a half-full spray tank and mix thoroughly and fill up slowly while agitating (mechanical or hydraulic). Commence agitating of mixture a few minutes before starting to spray. Agitation is necessary to ensure thorough mixing of insecticide.

APPLICATION

Aerial application

Aerial application of **METHOMEX® 200 SL** may only be done by a registered Aerial Application Operator using a correctly calibrated, registered aircraft according to the instructions of SANS Code 10118 (Aerial Application of Agricultural Pesticides). Ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria be met:

- Volume: A spray mixture volume of 30 litres per hectare is recommended. As this product has not been evaluated at a reduced rate, the registration holder cannot guarantee efficacy, or be

held responsible for any adverse effects if this product is applied aurally at a lower volume than recommended above.

- Droplet coverage: 30 to 40 droplets per cm² must be recovered at the target area.
- Droplet size: A droplet spectrum with a VMD of 250 to 280 microns is recommended. Limit the production of fine droplets less than 150 microns (high drift and evaporation potential) to a minimum.
- Flying height: Maintain the height of the spray boom at 3 to 4 metres above the target. Do not spray when aircraft dives, is in a climb or when banking
- Use suitable atomising equipment that will produce the desired droplet size and coverage, but which will ensure the minimum loss of product. The spraying system must produce a droplet spectrum with the lowest possible Relative Span.
- Position all the atomisers within the inner 60 to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.
- The difference in temperature between the wet and dry bulb thermometers, of a whirling hygrometer, should not exceed 8 °C.
- Stop spraying if the wind speed exceeds 15 km/h.
- Stop spraying under turbulent, unstable and dry conditions during the heat of the day.
- Spraying under temperature inversion conditions (spraying in or above the inversion layer) and/or high humidity conditions (relative humidity 80 % and above) may lead to the following:
 - a) Reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage).
 - b) Damage to other sensitive crops and/or non-target areas through drifting of the suspended spray cloud away from the target field.
- Ensure that the Aerial Spray Operator knows exactly which fields to spray.
- Obtain an assurance from the Aerial Spray Operator that the above requirements will be met and that relevant data will be compiled in a logbook and kept for future reference.

APPLICATION RATES

CROP AND DISEASE	DOSAGE	REMARKS
Carnations Carnation worm	450 ml/100 L water	Ensure good coverage of the whole plant. Repeat weekly.
Citrus Aphids African bollworm (American bollworm)	90 ml/100 L water	Apply as a full cover spray when aphids and/or worms appear. Repeat when necessary.
Mealybugs	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.

CROP AND DISEASE	DOSAGE	REMARKS
<p>Citrus continue</p> <p>Orange dog caterpillar</p> <p>Red scale</p> <p>Soft green scale</p>	<p>115 ml/100 L water</p> <p>450 ml plus 3 L light narrow range mineral oil per 100 L water</p> <p>90 ml plus 500 ml narrow range mineral oil/100 L water</p>	<p>Apply as a light cover spray as soon as larvae are noticed.</p> <p>Corrective treatment: Apply when 25 to 40 % of the fruit is infested with one or more live nymphs or adult scale.</p> <p>WARNING: Fruit bearing trees: Only one application must be made between December and March for late cultivars. Early cultivars may only be sprayed in December or January and not later than January. Application must be made with high pressure air compressor handguns. Do not apply with conventional citrus spray rigs.</p> <p>Apply as a full cover spray with a high-pressure pump when the first visible signs of infestation are seen. Do not use less than 500 ml oil/100 L water.</p>
<p>Citrus</p> <p>Waxy scale</p>	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.
<p>Cruciferae</p> <p>Larvae of the diamond back moth</p> <p>Greater cabbage moth</p> <p>Aphids</p> <p>African bollworm (American bollworm)</p>	<p>225 ml/100 L water</p> <p>1125 ml/ha</p>	<p>Apply when worms first appear on the leaves. Use up to 500 L spray mixture/ha. During hot weather and peak infestations, shorten the spray intervals to between 3 to 5 days. Ensure thorough wetting of the plants.</p> <p>Ground application: Apply in sufficient water to ensure good coverage.</p> <p>Aerial application: Apply in 30 L water as soon as worms appear. Repeat if necessary.</p>
<p>Grain sorghum, wheat, lupins and lucerne</p> <p>African bollworm (American bollworm)</p>	<p>900 ml/ha</p> <p>900 ml/ha</p> <p>225 ml/100 L water</p>	<p>Aerial application: Apply in 30 L water when pests are noticed. Repeat as necessary.</p> <p>Ground application:</p> <p>Low volume. Apply in 100 to 200 L water.</p> <p>High volume: Apply up to 400 L spray mixture/ha.</p>

CROP AND DISEASE	DOSAGE	REMARKS
Grazing and other crops Army worm	225 ml/ha	Ground application: Apply in 400 L water as soon as pest is noticed.
Green beans African bollworm (American bollworm)	225 ml/100 L water 1125 ml/ha	Ground application: Ensure good coverage on the plants and apply up to 500 L spray mixture/ha. Aerial application: Apply in 30 L water as soon as infestation appears. Repeat if necessary.
Hops African bollworm (American bollworm)	150 ml/100 L	Commence application as soon as the eggs or the first larvae are noticed, when hop bines are emerging and starting to grow on the hop string. If necessary, a second application may be done during the cone development of the hops. Applications are usually done during November/December and February/March. Do not apply more than 2 applications per season.
Maize African bollworm (American bollworm)	900 ml/ha 900 ml/ha 225 ml/100 L water	Aerial application: Apply in 30 L water as soon as worms are noticed on the silks. METHOMEX® 200 SL will not control worms which have already entered the cob. Ground application: Low volume: Apply in 100–200 L water. High volume: Apply up to 400 L spray mixture/ha.
Peaches False codling moth	225 ml/100 L water	Early cultivars: Apply two sprays ensuring that the tree is 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 registered product for fruit fly control.
Potatoes Potato tuber moth African bollworm (American bollworm)	1350–2250 ml/ha	Aerial application: Apply in 30 L water. Use the higher dosage if the spray interval exceeds one week. For tuber moth, begin application as soon as the plant is one month old and repeat applications weekly throughout the growing season. Potatoes must be ridged at least twice during the growing season. For American Bollworm one application is enough to control one outbreak. If further outbreaks occur, repeat application as necessary.

CROP AND DISEASE	DOSAGE	REMARKS
	225 ml/100 L water	Ground application: Ensure good coverage and wetting of the plant. Apply to 1000 L spray mixture/ha.
Roses Aphids	115 ml/100 L water	Apply as a full cover spray. Repeat as necessary. Apply up to 500 L spray mixture/ha.
Tobacco Leafminer African bollworm (American bollworm) Tobacco slug Stinkbug African bollworm (American bollworm) Tobacco slug Stinkbug	225 ml/100 L water 1125 ml/ha	Ground application: Apply when pests are noticed. For leafminer, spray weekly and ensure thorough wetting of plants. Apply up to 500 L spray mixture/ha. Aerial application: Apply in 30 L water when pests are noticed. Repeat as necessary.
Tomatoes African bollworm Leafminer 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.