

**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.**



# AZINPHOS 200 SC

Reg. no. L5588 Act/Wet 36 of/van 1947  
N-AR 0497

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

GROUP	1B	INSECTICIDE
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A suspension concentrate contact and stomach insecticide for the control of certain species of insects and mites citrus, deciduous fruit, cotton, potatoes and olives as listed.	'n Suspensiekonsentraat kontak- en maag-insekdoder vir die beheer van sekere insek- en mytplae op sitrus, sagtevrugte, katoen, aartappels en olywe soos aangedui.
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  <p><b>DANGER</b></p>	<p><b>Hazard statements</b> Toxic if swallowed. Harmful in contact with skin. May cause allergic skin reaction. Fatal if inhaled. Very toxic to aquatic life with long lasting effects.</p>
	<p><b>Precautionary statements</b> Use only outdoors or in a well-ventilated area. Avoid release</p>

### ACTIVE INGREDIENT/AKTIEWE BESTANDDEEL

azinphos-methyl (organophosphate) ... 200 g/L ..... azinfosmetiel (organofosfaat)

### NET VOLUME/NETTO VOLUME

..... L

### 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  
Bellville, 7530  
T: +27 21 982 1460, infocpt@adama.com

### 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

UN no.: 3018

Batch number .....  
Date of manufacture .....  
Expiry date .....

Lotnommer .....  
Datum van vervaardiging .....  
Vervaldatum .....



GHS information

## WARNINGS

- Toxic if swallowed.
- Harmful in contact with skin
- May cause allergic skin reaction.
- Fatal if inhaled.
- Very toxic to aquatic life with long lasting effects.

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

<b>Apples and pears</b> .....	14 days
<b>Cotton</b> .....	5 days
<b>Cotton for grazing</b> .....	35 days
<b>Citrus</b> (when Parathion is added do not apply later than 6 weeks after petal drop)	21 days
<b>Olives</b> .....	90 days
<b>Peaches</b> (in summer rainfall area) .....	21 days
<b>Peaches for canning</b> .....	3 days
<b>Peaches and apricots</b> .....	28 days
<b>Potatoes</b> .....	21 days

- Handle with extreme care.
- Toxic to bees.
- Store under lock and key and keep in a cool place.
- Store away from food and feed.
- In case of poisoning, call a doctor and make this label available to him.
- Aerial application: Notify all inhabitants of the area to be sprayed and issue the necessary warnings. Do not spray over or allow drift to contaminate water or adjacent areas.
- **Re-entry:** Do not enter treated area within 2 days after application and the spray deposit has dried, unless wearing full protective clothing (protective gloves, protective clothing, eye and face protection and respiratory protection).

**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 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 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

### PREVENTION

- Read label carefully and follow all instructions.
- Wear protective gloves, protective clothing, and eye and face protection.
- Wear respiratory protection.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Do not breathe fumes/ mist/ vapours or spray.
- Do not eat, drink, or smoke when using this product.
- Wash hands and face thoroughly after handling.
- Contaminated work clothing should not be allowed out of the workplace.

### RESPONSE

- Get emergency medical help immediately.
- IF SWALLOWED: Rinse mouth and get medical help immediately.
- IF ON SKIN: Wash with plenty of water under the safety shower.
- If skin irritation or rash occurs: Get medical help.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- Take off contaminated clothing and wash it before reuse

### STORAGE

- Store locked up in a well-ventilated place and keep container closed.

- Avoid drift of spray onto other crops, grazing, rivers and dams and areas not under treatment.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Clean sprayer before using for other remedies and dispose of wash water where it will not contaminate crops, grazing, rivers and dams.
- Invert the empty container over the spray or mixing 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 equal to a minimum of 10 % of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner. Destroy empty container by perforation and flattening and never use for any other purpose.

## RELEVANT SUBSTANCES

Chemical name	Weight %	CAS no.
Azinphos-methyl (94%)	18%	86-50-0

## FIRST AID

Provide this SDS to medical personnel for treatment. Emergency personnel should wear protective clothing appropriate to the type and degree of contamination.

Remove contaminated clothing and remove the affected person from the contamination area. Keep the person warm, calm and comfortable. First aid personnel should pay attention to their own safety. Take the container label or product name with you when seeking medical attention.

**Eye contact:** Immediately 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:** Remove all contaminated clothing and shoes. Rinse the skin immediately with plenty of water for 15 to 20 minutes under the safety shower. Wash contaminated clothing before re-use. Obtain medical attention.

**Inhalation:** Remove the affected victim from exposure to an area with fresh air. Keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Immediate obtain medical attention.

**Ingestion:** Obtain immediate medical attention or call a poison control center for treatment advice. If conscious, rinse mouth thoroughly with water. Never give anything by mouth to an unconscious or convulsing person. Do not induce vomiting unless directed to do so by a medical professional. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomits, rinse mouth and administer more water.

## TOXICOLOGICAL INFORMATION

### Antidotes

Antidote 1: Atropine sulphate.

Antidote 2: Obidoxime chloride or Pralidoxime (PAM).

Suggest serum and/or RBC cholinesterase determination.

Do not give morphine.

If ingested perform gastric lavage and administer activated charcoal.

### Symptoms of human poisoning

Inhalation symptoms: Pupillary constriction, headache, muscle cramp, excessive salivation, sweating, nausea, dizziness, wheezing, laboured breathing, convulsions, and unconsciousness.

Ingestion may result in systemic poisoning. Symptoms include abdominal cramps, vomiting, and diarrhoea.

Eye symptoms: Blurred vision.



Dermal contact: May be absorbed.

The heart rate may decrease following oral exposure or increase following dermal exposure.

## RESISTANCE WARNING

For the purpose of resistance management, **AZINPHOS 200 SC** is classified as a group code **1B** insecticide. Any insect population may contain individuals naturally resistant to **AZINPHOS 200 SC** and other group code **1B** insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by **AZINPHOS 200 SC** or any other group code **1B** 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 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

Azinphos-methyl is an acetylcholinesterase (AChE) inhibitor of the organophosphate subgroup.

AChE is the enzyme that terminates the action of the excitatory neurotransmitter acetylcholine at the nerve synapses. Inhibition of AChE causes hyperexcitation in the target organism

## RESTRICTED USES

**Use only as directed.**

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.

## Compatibility

Compatible with most insecticides and fungicides but not with **LIME SULPER, BORDEAUX MIXTURE** or other alkaline chemicals.

## Mixing instructions

- First mix the required quantity with some water in the spray tank.
- Keep the agitator running whilst the remainder of water is added to the pre-mix.
- Keep tank mixture agitated during application.
- Spraying should be done on dry calm days on the same day than mixing.
- Plants must be wetted thoroughly.

## APPLICATION RATES

CROP AND PEST	DOSAGE	REMARKS
<p><b>Apples, pears, peaches, apricots</b></p> <p>Codling moth</p> <p>Bryobia mite</p>	<p>90 ml/100 L water</p> <p>90 ml/100 L water</p>	<p>Apply as a full cover spray at 75% petal drop and repeat at intervals of 2–3 weeks.</p> <p><b>Note:</b> Application against codling moth will also control leaf rollers and pear bud mite and will assist in the control of woolly aphids and two-spotted spider mite (red spider mite).</p> <p>Apply as a full cover spray and repeat if necessary.</p>
<p><b>Citrus</b></p> <p>Soft brown scale, aphids</p> <p>Red scale, mussel scale, circular purple scale</p>	<p>125 ml/100 L water</p> <p>125 ml plus 200 g parathion WP/100 L water</p>	<p>Apply as a corrective spray when pest is noticed.</p> <p>Apply as a preventative spray at 80 – 100 % petal drop. Do not apply later than 6 weeks after petal drop. A second application 6 to 8 weeks later may be necessary on mature trees.</p>
<p><b>Cotton</b></p> <p>Red bollworm, aphids, stainers</p>	<p>615 ml/100 L water</p> <p>1.25 – 1.75 L/ha</p>	<p><b>Tractor application:</b></p> <p>Commence spraying at first signs of infestation and repeat at weekly intervals and after rain.</p> <p>Apply up to 300 L spray mixture/ha on mature cotton.</p> <p>Regular weekly applications will suppress two-spotted spider mite (red spider mite).</p> <p><b>Aerial application:</b></p> <p>Increase the rate of application and preferably also the volume of spray per ha to the growth of the plants.</p>
<p><b>Late peaches</b></p> <p>Summer rainfall area</p> <p>False codling moth</p>	<p>125 ml/100 L water</p>	<p><b>Early cultivars:</b></p> <p>Apply as a full cover spray 5 and 3 weeks before harvest.</p> <p><b>Late cultivars:</b></p> <p>Apply as a full cover spray 7, 5 and 3 weeks before harvest. <b>Do not</b> apply to fruit destined for export.</p>

CROP AND PEST	DOSAGE	REMARKS
<p><b>Peaches</b> Also non-bearing and nursery trees</p> <p>Oriental fruit moth (<i>Cydia molesta</i>)</p>	<p>125 ml/100 L water</p>	<p><b>Apply one or more of the following high volume sprays with a maximum of 5 sprays per season.</b></p> <p><b>Sprays I and II</b></p> <p>Apply both sprays against the 1<sup>st</sup> generation, the first one at 200 degree days* after the biofix of the 1<sup>st</sup> generation (i.e., the start of the first sustained trap catches of the season), and the second one at 300 degree days* after the 1<sup>st</sup> biofix.</p> <p><b>Sprays III, IV and V</b></p> <p>Apply each spray 278–333 degree days* after the biofixes of the 2<sup>nd</sup>, 3<sup>rd</sup> and 4<sup>th</sup> moth flights respectively.</p> <p>Monitor traps every two days until the biofix of the first generation has been determined and weekly thereafter. As each successive moth flight starts to decrease, monitor traps every two days until the start of the next flight, in order to accurately pinpoint biofix and weekly thereafter. Should any of the above applications coincide with the recommended spray times for false codling moth simultaneous control of false codling moth will be achieved. If the application(s) do not coincide products other than <b>AZINPHOS 200 SC</b> must be used.</p> <p><b>UNDER NO CIRCUMSTANCES MAY MORE THAN 5 AZINPHOS 200 SC SPRAYS BE APPLIED PER SEASON. NOT TO BE USED ON NECTARINES.</b></p> <p>* Spray dates for the different production areas will be determined on the basis of the date of first Oriental fruit moth emergence (biofix) in those areas and disseminated to grower.</p>
<p><b>Olives</b> Leaf eating beetles, suppression of scale insects</p>	<p>125 ml/100 L water</p>	<p>Apply as a full corrective spray during November and repeat as required.</p> <p><b>Note:</b> Scale insects will only be suppressed and probably not controlled satisfactory.</p>
<p><b>Potatoes</b> Tuber moth</p>	<p>1.25 L/ha</p>	<p><b>Tractor and aerial application:</b></p> <p>Commence spraying when plants are approximately one month old at first signs of infestation and repeat at intervals of not more than 14 days.</p>