

**AZINPHOS-METHYL 50W**

**Wettable Powder Insecticide**

For insect control on field and fruit crops

**RESTRICTED**

GUARANTEE: Azinphos-methyl ..... 50%

**REGISTRATION NO. 15645 PEST CONTROL PRODUCTS ACT**

Store in a cool dry place, but not below freezing (0° C). **Protect from heat. Keep away from open flame. Do not heat.**

**READ THE LABEL AND BOOKLET BEFORE USING  
KEEP OUT OF REACH OF CHILDREN**



**D A N G E R**

**P O I S O N**

**CALL A DOCTOR IN CASE OF ACCIDENT OR CONTACT A POISON  
CONTROL CENTRE**

**NET CONTENTS: 2 Kg**

Makhteshim-Agan of North America Inc.  
551 Fifth Ave., Suite 1100  
New York, N.Y. 10176

**NOTICE TO USER:** This control product is to be used only in accordance with the directions on this label. It is an offence under the PEST CONTROL PRODUCTS ACT to use a control product under unsafe conditions.

### **RESTRICTED USES**

**NATURE OF RESTRICTION:** This product is to be stored, displayed and distributed in the manner authorized. Provincial and federal regulations are in effect.

### **PRECAUTIONS**

**KEEP OUT OF REACH OF CHILDREN.** Poisonous if swallowed, inhaled, or absorbed through the skin. Do not get in eyes or on skin. Do not breathe fumes or spray mist. Spray operator should work to windward to stay out of drift or mist. Keep all unprotected persons out of the operating area or vicinity where there may be danger of drift. Do not contaminate feed or foodstuffs. Keep out of reach of children and domestic animals.

#### **Personal Protective Equipment (PPE):**

See Engineering Controls for additional requirements.

Mixers and loaders must wear the following during mixing, loading, clean-up and repair activities:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate or viton
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant apron when mixing or loading
- Chemical-resistant headgear
- For exposure in enclosed areas, a respirator with either an organic vapour-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)
- For exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC23-C)

Airblast applicators should be in fully enclosed cabs. If not in fully enclosed cabs, applicators must wear:

- Chemical resistant coveralls over long-sleeved shirt and long-legged pants
- Chemical-resistant hood
- Full-face respirator or half-faced respirator with a face shield. Respirators can have either an organic vapour removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)
- Chemical-resistant footwear plus socks
- Chemical-resistant gloves

Applicators (other than airblast) must wear:

- Coveralls over long-sleeved shirt and long-legged pants
- Chemical-resistant gloves, such as barrier laminate or viton
- Chemical-resistant footwear plus socks
- Protective eyewear
- Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC23-C)

Ask dealers about suitable types of respirators.

Discard clothing and other absorbent materials if accidentally drenched or heavily contaminated with concentrated product. Do not reuse contaminated clothing. Follow manufacturer's instructions for cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **User safety recommendations:**

##### **User should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing gloves or clothing. As soon as possible, wash skin thoroughly and change into clean clothing.

#### **Engineering Controls**

**Wettable powder formulations:** Wettable powder formulations are permitted only when marketed in water-soluble packages. Water-soluble packets qualify as a closed mixing/loading system when used correctly. Mixers and loaders using water-soluble packets must wear the personal protective equipment required above for mixers/loaders. Do not break open water soluble packages.

If this pest control product is to be used on a commodity that may be exported to the U. S. and you require information on acceptable residue levels in the U. S. contact 1 866 375-4648 or [www.cropro.org/](http://www.cropro.org/)

#### **FIRST AID:**

##### **Organophosphate:**

In case of poisoning call a physician or a Poison Control Centre IMMEDIATELY. Have patient lie down and keep quiet. **If swallowed**, vomiting should be induced. Administer water freely and induce vomiting by giving one dose (15 mL) of syrup of ipecac. If vomiting does not occur within 10 to 20 minutes, administer second dose. If syrup of ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. The patient should be lying down with the head below the foot level and facing down or to one side. **DO NOT INDUCE VOMITING TO AN UNCONSCIOUS PERSON OR TO PERSONS IN A CONVULSIVE STATE.** Professional medical assistance should be secured immediately or call poison control centre. **If on skin**, remove contaminated clothing and wash skin immediately with soap and warm water. **If eyes are contaminated**,

wash immediately with flowing water for at least 15 minutes. Take container, label or product name and Pest Control Product Registration Number with you, when seeking medical attention.

## **POISON**

### **TOXICOLOGICAL INFORMATION**

Azinphos-methyl is a cholinesterase inhibitor. Typical symptoms of overexposure to cholinesterase inhibitors include headache, nausea, dizziness, sweating, salivation, runny nose and eyes. This may progress to muscle twitching, weakness, tremor, incoordination, vomiting, abdominal cramps and diarrhea in more serious poisonings. Life-threatening poisoning is signified by loss of consciousness, incontinence, convulsions and respiratory depression with a secondary cardiovascular component. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate degree of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as pralidoxime chloride, may be therapeutic if used early; however, use only in conjunction with atropine. In cases of severe acute poisoning, use antidotes immediately after establishing an open airway and respiration. With oral exposure, the decision of whether to induce vomiting or not should be made by an attending physician.

### **ENVIRONMENTAL HAZARDS**

This pesticide is extremely toxic to fish and wildlife. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning equipment and container or disposing of waste. Drift and runoff from treated areas are hazardous to aquatic organisms in neighbouring areas. This product is highly toxic to bees exposed to direct treatment, drift, or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. Protective information may be obtained from your local government extension specialist. When treating fruit during the bloom period, bee keepers should be warned well in advance to remove hives a safe distance from orchards to be treated.

Drift resulting from applications of azinphos-methyl is a hazard to aquatic ecosystems. Aquatic ecosystems consist of any permanent body of water, such as, but not limited to lakes, ponds, streams, rivers, creeks, sloughs, canals, coulees, prairie potholes, reservoirs, marshes or wetlands. For details on required buffer zones, refer to **SPRAY DRIFT MANAGEMENT**.

### **USE LIMITATIONS**

Do not use on other crops used for food or forage. Use only according to label directions. Application at rates above those shown may result in illegal crop residues. Do not graze livestock in treated orchards or groves for 21 days after treatment. Use of this product in greenhouses or enclosed areas is prohibited. Backpack and handwand spraying is prohibited.

## **STORAGE AND DISPOSAL**

**STORAGE:** Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food and feed. Do not store below freezing (0° C). Store product in original container and out of reach of children, preferably in a locked storage area.

### **DISPOSAL:**

Do not contaminate water, food, or feed by storage or disposal.

1. Triple rinse the empty bag. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the bag prior to its disposal.
3. Make the empty bag unsuitable for further use.
4. Dispose of the bag in accordance with provincial requirements.
5. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

### **ACCIDENTAL SPILLS:**

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed above. In spill or leak incidents, keep unauthorized people away. You may contact the Makhteshim-Agan 24-hour Emergency Phone number for decontamination procedures or any other assistance that may be necessary. The 24-hour Emergency Phone number is 212 661-9800 or contact CANUTEC at 613-996-6666.

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### **Personal Protective Equipment (PPE):**

See Engineering Controls for additional requirements.

Mixers and loaders must wear the following during mixing, loading, clean-up and repair activities:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate or viton
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant apron when mixing or loading
- Chemical-resistant headgear
- For exposure in enclosed areas, a respirator with either an organic vapour-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)
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### **USE LIMITATIONS**

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### **ROTATIONAL CROPS**

Do not plant root crops other than those with registered azinphos-methyl uses in azinphos-methyl treated soil sooner than 6 months after last application. Do not plant any other crop other than those with registered azinphos-methyl uses in treated soil sooner than 30 days after last application.

### **RESISTANCE-MANAGEMENT RECOMMENDATIONS**

For resistance management, please note that AZINPHOS-METHYL 50W contains a Group 1B insecticide. Any insect population may contain individuals naturally resistant to AZINPHOS-METHYL 50W and other Group 1B insecticides. The resistant individuals may dominate the insect population if this group of insecticides is used repeatedly in the same fields.

Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance:

- Where possible, rotate the use of AZINPHOS-METHYL 50W or other Group 1B insecticides with different groups that control the same pests in a field.
- Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Correctly identify the pest and ensure economic and agronomic thresholds are met before spraying.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Makhteshim-Agan at 1 212 661-9800.

#### **DIRECTIONS FOR USE**

**NOTICE TO USER:** This control product is to be used only in accordance with the directions on this label. It is an offence under the PEST CONTROL PRODUCTS ACT to use a control product under unsafe conditions.

#### **RESTRICTED USES**

**NATURE OF RESTRICTION:** This product is to be stored, displayed and distributed in the manner authorized. Provincial and federal regulations are in effect.

**NOTICE TO BUYER:** Seller's guarantee shall be limited to the terms set out on the label and, subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

## RESTRICTED ENTRY INTERVAL (REI)

Do not enter or allow worker entry into treated areas during the re-entry interval (REI) listed in the chart below.

Crop	REI	
apple, plum, prune, pear, apricot, peach	14 days	The following PPE is required for early entry to treated areas that involves contact with anything that has been treated, such as plants, soil or water. <ul style="list-style-type: none"><li>• Chemical-resistant coveralls over long-sleeved shirt and long pants</li><li>• Chemical-resistant gloves</li><li>• Chemical-resistant footwear plus socks.</li><li>• Protective eyewear</li><li>• Chemical-resistant headgear for overhead exposure</li></ul>
raspberry, cranberry, blackberry	7 days	Following the REI and throughout the remainder of the growing season, workers must wear clean, long-sleeved shirts and protective gloves each time they perform activities that involve foliar contact.
cherry (sweet and tart)	15 days	Notify workers of the pesticide application by warning them orally and by posting warning signs at entrances to treated areas. Wash stations must be available in the field for all re-entry workers.
grape	28 days	Do not apply this product in a way that will come into contact with workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Persons other than agricultural workers, such as members of the general public involved in “pick-your-own”, “U-pick” or similar operations, are not permitted to enter a treated area for 30 days after application.

**MIXING:** AZINPHOS METHYL 50W can be mixed with water to form a suspension and is suitable for use in all power-operated ground sprayers. It is suggested that the required amount of AZINPHOS-METHYL 50W be pre-mixed in a small quantity of water before adding to the spray tank. Fill the tank half full with water. Add the pre-mix through the screens while completing the filling of the spray tank with water. The solution should be agitated during filling and mixing.

**COMPATIBILITY:** AZINPHOS-METHYL 50W insecticide is physically compatible with many liquid fertilizers. AZINPHOS-METHYL 50W must be slurried with water before mixing with liquid fertilizer. For further information, contact your local Makhteshim-Agan representative and/or supplier. If your supplier and Makhteshim-Agan representative have no experience with the combination you are considering, you should conduct tests to determine physical compatibility.

To determine physical compatibility, pour the recommended proportions of each chemical with the same proportion of water as will be present in the chemical supply tank into a

suitable container, mix thoroughly and allow to stand for five minutes. If the combination remains mixed, or can be remixed readily, the mixture is considered physically compatible.

Combination should be kept agitated and should be applied immediately. Do not allow combination to sit for prolonged periods in the chemical supply tank.

Do not use in a tank-mix with products that contain boron or release free chlorine.

**DOSAGE:** Use specified dosage of AZINPHOS-METHYL 50W in the amount of water necessary to give complete coverage of foliage. Determine the **total amount** of wettable powder to be added to the spray tank based on the rates under "Recommended Applications". Add the required amount of product to the spray tank while filling with sufficient water to give complete coverage of foliage. The type of equipment used will determine the concentration required; however, use of these packets is not recommended for making highly concentrated mixtures such as used in ULV (ultra-low-volume) spraying.

### **Product Specific Precautions**

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-212 661-9800 or obtain technical advice from the distributor or your provincial agricultural representative.

## **SPRAY DRIFT MANAGEMENT**

### **General information**

Only apply when there is minimal potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and parks. Avoid overspray or drift onto water bodies or other environmentally sensitive habitat. Application equipment and weather affects spray drift. The applicator must consider wind speed, wind direction, temperature and sprayer settings when making application decisions.

### **Ground application**

For minimizing drift, an appropriate buffer zone is required between the downwind point of direct application and the nearest boundary of sensitive aquatic habitats including lakes, ponds, streams, rivers, creeks, sloughs, canals, coulees, prairie potholes, reservoirs, marshes or wetlands.

Do not apply during periods of dead calm or when winds are gusty.

For application with ground spray booms, the buffer zones presented in Table 1 are required for protection of aquatic habitats (as indicated above).

### **Airblast application**

Do not direct spray above trees/vines and turn off outward pointing nozzles at row ends and outer rows.

Do not apply during periods of dead calm, when winds are gusty or when wind speed is greater than 16 km/hour at the application site as measured outside of the orchard/vineyard on the upwind side.

For orchard airblast applications, the buffer zones presented in Table 1 are required for protection of aquatic habitats (as indicated above).

**Table 1 Required buffer zones for protection of aquatic habitat**

**The following buffer zones are required between the point of direct pesticide application and the nearest boundary of downwind sensitive habitats such as lakes, ponds, streams, rivers, creeks, sloughs, canals, coulees, prairie potholes, reservoirs, marshes or wetlands.**

Method of Application	Buffer zone (metres) required for the protection of aquatic habitat with water depth of:		
	<1 metre	1-3 metres	> 3 metres
Boom sprayer*	50	40	30
Airblast (early season)	75	60	50
Airblast (late season)	65	50	40

\* With the use of shrouds or cones on field sprayers (for reducing drift), buffer zones can be reduced by 70% (shrouds) or 30% (cones).

**DIRECTIONS FOR USE**

NATURE OF RESTRICTION: This product is to be stored, displayed and distributed in the manner authorized — provincial and federal regulations are in effect.

DO NOT APPLY BY AIR.

**SPRAYING**

Work to windward. Protect sprayer operators from drift or mist. Additional information on spray drift management for ground application is provided in the SPRAY DRIFT MANAGEMENT section. When low volumes of spray are applied, complete coverage and thorough application are essential for most effective results. Schedule applications in accordance with local conditions. Consult your local agricultural authorities for specific use information.

Acceptable uses for azinphos-methyl until 31 December 2012.



Site	Pests	Rate of Azinphos-Methyl 50W Wettable Powder Insecticide	Application instructions and limitations
<p>APPLE, PEAR, CRABAPPLE (for pollination in commercial apple orchards)</p>	<p>apple maggot, codling moth, eyespotted budmoth, Forbes scale, fruittree leafroller, green fruitworm, leafhoppers, mealybug, mullein bug (Campyloma), obliquebanded leafroller, oystershell scale, pear psylla, plum curculio, Putnam scale, redbanded leafroller, San José scale, stink bugs, tarnished plant bug, pale apple leafroller, winter moth, European apple sawfly</p>	<p>600-750 g/1000 L</p> <p>Apply 1000-3000 L or water per hectare per spray.</p> <p>(Maximum application rate: 2.24 kg/ha)</p>	<p>Ground application only. Apply specified dose in sufficient water to ensure complete coverage.</p> <p>For control of plum curculio, apply as a border spray in sufficient water for thorough coverage.</p> <p>Up to 8.96 kg for apples and 6.72 kg for pears) may be applied per hectare per crop (4 applications for apples and 3 applications for pears per crop season).</p> <p>Allow at least 7 days between applications. If last application is less than 2.24 kg/ha, allow at least 14 days between last application and harvest. If last application is equal to 2.24 kg/ha allow 21 days between last application and harvest.</p> <p>Use during dormant season is prohibited. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. Do not graze livestock in treated orchards.</p>

APRICOT, PEACH	cottony peach scale, European fruit lecanium, Forbes scale, Oriental fruit moth, oblique-banded leafroller, peach twig borer, <i>Platynota flavedana</i> leafroller, plum curculio, red-banded leafroller, San José scale, stink bug, tarnished plant bug, terrapin scale, walnut scale, white peach scale	600-665 g/1000 L	<p>Ground application only. Apply specified dose in sufficient water to ensure complete coverage.</p> <p>For control of plum curculio, apply as border spray in sufficient water for thorough coverage.</p> <p>Up to 4 kg maximum may be applied per hectare per crop season. Up to two applications per year.</p> <p>Allow at least 14 days between applications. Allow at least 21 days between last application and harvest.</p> <p>Use during dormant season is prohibited. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. Do not graze livestock in treated orchards.</p>
BLACKBERRY, RASPBERRY	raspberry crown borer	2.25 kg/ha	<p>Ground applications only. Post-harvest application for control of raspberry crown borer, apply specified dosage per hectare to the lower portion of the canes and to soil beneath the plants in approximately 1600 L water. One application only.</p>

CHERRY	cherry fruit fly, Forbes scale, eyespotted budmoth, fruittree leafroller, plum curculio, San José scale	600 g-2.25 kg/1000 L	Ground application only. Apply specified dosage in 1000 L of water as a full coverage spray.  Limit to two applications to a maximum of 3.36 kg/ha per year. Allow at least 14 days between applications and at least 15 days between last application and harvest.
	lesser peachtree borer	1.25 kg/1000 L	Use during dormant season is prohibited. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. Do not graze livestock in treated orchards.
CRANBERRY	cranberry fruitworms, <i>Sparganithis sulfureana</i> , tipworm	1.12-2.25 kg/ha	Ground application only. Apply specified dosage in approximately 1600 L of water per hectare.
	fireworm	2.25 kg/ha	A total of 2 applications may be made per crop season. Allow at least 14 days between applications and at least 21 days between last application and harvest.



GRAPE	grape berry moth, grape can girdler, flea beetle, leafhoppers, leafrollers	625 g-1.25 kg/1000 L	<p>Ground application only. Apply specified dosage in 1000 L of water as a full coverage border spray.</p> <p>A total of 2 applications is permitted per crop per season, regardless of rate.</p> <p>Use in an IPM program in conjunction with mating disruption pheromone technologies for control of grape berry moth.</p> <p>Allow at least 14 days between applications. Allow at least 28 days between last application and harvest.</p>
PLUM, PRUNE	eyespotted budmoth, Forbes scale, fruittree leafroller, orange tortrix, peach twig borer, plum curculio, redbanded leafroller, San José scale, stink bug, tarnished plant bug, tussock moth	600 g-1.25 kg/1000 L	<p>Ground application only. Apply in sufficient water for thorough coverage. For control of plum curculio, apply as border spray.</p> <p>Up to 4 kg may be applied per hectare per crop season. Up to two application per year. Allow at least 10 days between applications. Allow at least 15 days between last application and harvest.</p>
	American plum borer, lesser peachtree borer, peachtree borer	1.25 kg/1000 L	<p>Use during dormant season is prohibited. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. Do not graze livestock in treated orchards.</p>

## **STORAGE AND DISPOSAL**

**STORAGE:** Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food and feed. Do not store below freezing (0° C). Store product in original container and out of reach of children, preferably in a locked storage area.

### **DISPOSAL:**

Do not contaminate water, food, or feed by storage or disposal.

1. Triple rinse the empty bag. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the bag prior to its disposal.
3. Make the empty bag unsuitable for further use.
4. Dispose of the bag in accordance with provincial requirements.
5. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

### **ACCIDENTAL SPILLS:**

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed above. In spill or leak incidents, keep unauthorized people away. You may contact the Makhteshim-Agan 24-hour Emergency Phone number for decontamination procedures or any other assistance that may be necessary. The 24-hour Emergency Phone number is 212 661-9800 or contact CANUTEC at 613-996-6666.

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