GROUP 1B INSECTICIDE

# AZINPHOS METHYL 240 EC Spray Concentrate

For insect control on field and fruit crops

## RESTRICTED

GUARANTEE: Azinphos-methyl ...... 240 g/L

REGISTRATION NO. 17533 PEST CONTROL PRODUCTS ACT

DO NOT STORE BELOW 7°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

DANGER



POISON



## **FLAMMABLE**

CALL A DOCTOR OR POISON CONTROL CENTRE IN CASE OF ACCIDENT

NET CONTENTS: 10 LITRES

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 skin 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**

**Liquid formulations:** Mixers and loaders must use a fully closed mixing and loading system. The system must be capable of removing the pesticide from the shipping container and transferring it into mixing tanks and (or) application equipment. At any disconnect point, the system must be equipped with a dry disconnect or dry couple shutoff device that is warranted by the manufacturer to minimize drippage to not more than 2 ml per disconnect point. In addition, mixers and loaders must:

- wear the equipment required in the PPE section of this labelling for mixer/loaders; and
- wear protective eyewear if the system operates under pressure.

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 <a href="https://www.cropro.org/">www.cropro.org/</a>

## **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. **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. Note: Product contains a petroleum distillate solvent.

#### 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 handward 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. Keep away from open flame and extreme heat. Do not store below 7°C. Store 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.

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

- 1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
- 2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

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 dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides 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.

1B INSECTICIDE

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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)
- For exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC23-C)

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- Chemical-resistant footwear plus socks
- Chemical-resistant gloves

Applicators (other than airblast) must wear:

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## **User safety recommendations:**

#### **User should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
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### **Engineering Controls**

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#### **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.

#### 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 240 EC Spray Concentrate contains a Group 1B insecticide. Any insect population may contain individuals naturally resistant to AZINPHOS-METHYL 240 EC Spray Concentrate 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 240 EC Spray Concentrate 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 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		
plum, prune, 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.  • Chemical-resistant coveralls over long-sleeved shirt and long pants  • Chemical-resistant gloves  • Chemical-resistant footwear plus socks.  • Protective eyewear  • Chemical-resistant headgear for overhead exposure	
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.	
grape	28 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.	
		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 240 EC Spray Concentrate forms an emulsion when diluted with water and is suitable for use in all power-operated ground sprayers. To mix with water, pour the required amount of AZINPHOS-METHYL 240 EC Spray Concentrate into full amount of water and then agitate.

**COMPATIBILITY:** AZINPHOS-METHYL 240 EC Spray Concentrate is physically compatible with many liquid fertilizers. 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.

**DOSAGE:** Use specified dosage of AZINPHOS-METHYL 240 EC Spray Concentrate in the amount of water necessary to give complete coverage of foliage. The type of equipment used will determine the concentration required.

## **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

<sup>\*</sup> 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.

## **Update**

Site	Pests	Rate of Azinphos-240 EC Spray Concentrate	Application instructions and limitations
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	1.25-1.40 L/1000 L	Ground application only. Apply specified dose in sufficient water to ensure complete coverage.  For control of plum curculio, apply as border spray in sufficient water for thorough coverage.  Up to 8.3 L maximum may be applied per hectare per crop season. Up to two applications per year.  Allow at least 14 days between applications. Allow at least 21 days between last application and harvest.  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.
BLACKBERRY, RASPBERRY	raspberry crown borer	4.7L/ha	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.

CRANBERRY	aranharry fruitwarma	2.3-4.7L/ha	Ground application
CKANBERKY	cranberry fruitworms, Sparganithis sulfureana, tipworm	2.3-4.7L/na	Ground application only. Apply specified dosage in approximately 1600 L of water per
			hectare.
	fireworm	4.7 L/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	1.3-2.6 L/1000 L	Ground application only. Apply specified dosage in 1000 L of water as a full coverage border spray.
			A total of 2 applications is permitted per crop per season, regardless of rate.
			Use in an IPM program in conjunction with mating disruption pheromone technologies for control of grape berry moth.
			Allow at least 14 days between applications. Allow at least 28 days between last application and harvest.
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,	1.3-2.6 L/1000 L	Ground application only. Apply in sufficient water for thorough coverage. For control of plum curculio, apply as border spray.
	tussock moth		Up to 8.3 L may be applied per hectare per crop season. Up to two applications per year. Allow at least 10 days between applications. Allow at least 15 days between last application and harvest.

American p lesser peach peachtree b	ntree borer,	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.

#### 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. Keep away from open flame and extreme heat. Do not store below 7°C. Store 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.

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

- 1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
- 2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

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:**

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