

MONITOR[®] 480
Liquid Insecticide
RESTRICTED

GROUP 1B INSECTICIDE

For Insect Control on Cole Crops, Potatoes, Head lettuce and Rapeseed

GUARANTEE:
METHAMIDOPHOS.....480 g/L

REGISTRATION NO. 12434

PEST CONTROL PRODUCTS ACT

DANGER



POISON

READ THE LABEL BEFORE USING

KEEP OUT OF REACH OF CHILDREN AND UNAUTHORIZED PERSONNEL

CALL A DOCTOR IN CASE OF ACCIDENT
(See side panel for First Aid and Danger Statements)

STORE IN A COOL DRY PLACE
PROTECT FROM HEAT

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Toronto, Ontario M4W 1B9
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10 L

NOTICE TO USER

This control product to be used only in accordance with the directions on this label. It is an offense under the Pest Control Products Act to use a control product under unsafe conditions.

NATURE OF RESTRICTION

This product is to be stored and displayed apart from food or feed.

RESTRICTED USES

READ ENTIRE LABEL USE STRICTLY IN ACCORDANCE WITH LABEL CAUTIONS, WARNINGS AND DIRECTIONS.

DIRECTIONS

Use the designated amount of product in the following litres of water per hectare unless otherwise noted.

Ground Application

200 to 1000 Litres of Water.

RECOMMENDED APPLICATIONS

CROP	INSECT	DOSAGE LITRES MONITOR 480	REMARKS
Broccoli Brussels Sprouts Cabbage Cauliflower	Cabbage looper Imported cabbageworm Diamondback moth larvae Aphids	1.1 - 2.3 L	Apply 1.1 L on a 7 day schedule beginning when insects or their damage first appears. For severe infestations 1.85 - 2.3 L applied at 7 to 14 day intervals may be necessary. Do not apply to cauliflower, or cabbage later than 7 days before the first harvest, or to broccoli and Brussels sprouts later than 14 days before the first harvest. Do not apply by air.
Head lettuce (Field grown)	Cabbage looper Aphids	1.1 - 2.3 L	Apply 1.1 L on a 7 day schedule beginning when insects or their damage first appears. For severe infestations 1.85 - 2.3 L applied at 7 to 14 day intervals may be necessary. Do not apply head lettuce later than 14 days before the first harvest. Do not apply by air.

Potatoes	Aphids Colorado potato beetle Potato flea beetle Potato leafhopper	1.85 - 2.3 L	Use 1.85 - 2.3 L per hectare. Apply in a 10 to 14 day program or as necessary. Do not apply later than 14 days before harvest. Do not apply by air.
	Tarnished plant bug (Ontario only)		
Rapeseed	Bertha Armyworm	575 mL -1.25 L	Use 575 mL - 1.25 L per hectare. Applications by air* or ground equipment should begin when small larvae are present or when damage first appears. Two applications may be made. Do not apply later than 10 days before harvest.
	Grasshoppers	1.25 L	Use 1.25 L per hectare. Applications by ground or air* equipment should begin when migration of grasshoppers from ditches and field borders becomes apparent. Two applications may be made. Do not apply within 10 days of harvest.

*FOR AIRCRAFT APPLICATION ON RAPESEED, USE NOT LESS THAN 10 LITRES OF WATER PER HECTARE. Refer to aerial application procedures.

PRECAUTIONS

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.

FISH AND WILDLIFE CAUTIONS

Toxic to Fish and Wildlife. Keep out of lakes, streams and ponds. Fish will be killed if their waters are contaminated with this product. Wildlife in contact with treated areas may be harmed. This product is highly toxic to bees exposed to direct treatment or residues on crops. Avoid use during flowering and pollination periods.

STORAGE

Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers.

DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction for any required additional cleaning of the container

prior to its disposal.

3. Make the empty container unsuitable for further use.
4. Dispose of the container 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.

**KEEP OUT OF REACH OF CHILDREN AND UNAUTHORIZED PERSONNEL
DO NOT INHALE – DO NOT GET ON SKIN – DO NOT TAKE INTERNALLY**

Poisonous if swallowed, inhaled or absorbed through skin. Rapidly absorbed through skin. Do not get in eyes, on skin or on clothing. Wear a mask or respirator of a type suitable for protection against organophosphate insecticides. Wear natural rubber gloves, protective clothing and goggles. Wash hands, arms and face thoroughly with soap and water before eating or smoking. Wash all contaminated clothing with soap and hot water before reuse. Keep all unprotected persons out of operating areas or vicinity where there may be danger of drift. Vacated areas should not be reentered until drifting insecticide and volatile residues have dissipated. Do not store or transport near feed or food.

FIRST AID

In case of **Contact with Skin** remove contaminated clothing and wash immediately with soap and water. **If in Eyes** flush with large amounts of water for at least 15 minutes and get medical attention. **If swallowed**, give water, induce vomiting by inserting finger down throat and repeat until vomit fluid is clear. Have victim lie down and keep quiet. **CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.** Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Emergency Information – call (651) 632-8946. The compound inhibits cholinesterase resulting in stimulation of the central nervous system. This results in a sense of “tightness” in the chest, sweating, contracted pupils, stomach pains, vomiting and diarrhea. The antidote is atropine sulfate administered in large therapeutic doses repeated as necessary to the point of tolerance. 2-PAM is also antidotal and may be administered in conjunction with atropine. Do not give morphine. Watch for pulmonary edema, which may develop in serious cases of poisoning even after 12 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

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/.

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.

AERIAL APPLICATION PRECAUTIONS

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

USE PRECAUTIONS

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the *Basic Knowledge Requirements for Pesticide Education in Canada: Applicator Core and Aerial Module*, developed by CAPCO.

Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

OPERATOR PRECAUTIONS

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading or premixed chemicals with a closed system is permitted.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

PRODUCT SPECIFICATIONS

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at (415) 536-3480 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

Volume: Apply the recommended rate in a minimum spray volume of 50.0 litres per hectare.

RESISTANCE MANAGEMENT

For resistance management, please note that Monitor 480 Liquid Insecticide contains a Group 1B insecticide. Any insect population may contain individuals naturally resistant to Monitor 480 Liquid Insecticide and other Group 1B insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are 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 Monitor 480 Liquid Insecticide or other Group 1B insecticides with different groups that control the same pests in a field.
- Use tank mixtures with insecticides from a different group when such use is permitted.
- Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- 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 Arvesta Corporation at (415) 536-3480.

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