

GROUP

6

INSECTICIDE

AVID® 1.9% EC MITICIDE/INSECTICIDE**COMMERCIAL**

For Control of Labelled Pests in Greenhouse Ornamental, Greenhouse Vegetables (Peppers, Cucumbers, and Tomatoes), Outdoor Ornamental, and Boxwood.

ACTIVE INGREDIENT:

Abamectin..... 19 g/L

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

WARNING**POISON**

REGISTRATION NO.: **24485**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 Litre**

Syngenta Canada Inc.
140 Research Lane, Research Park
Guelph, Ontario N1G 4Z3
Telephone: 1-877-964-3682

LABEL

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

FIRST AID

IN CASE OF POISONING, contact a physician or a poison control centre **immediately**. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

If swallowed, call a poison control centre or doctor **IMMEDIATELY** for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

If inhaled, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

If on skin or clothing, take off contaminated clothing. Rinse skin **IMMEDIATELY** with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

If in eyes, hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

TOXICOLOGICAL INFORMATION

Recommendations for Medical Treatment for Abamectin Acute Toxicity: Early signs of intoxication include mydriasis (dilated pupils), ataxia (unsteadiness) and muscle tremors. Toxicity following accidental ingestion of the concentrate can be minimized by inducing vomiting under the direction of a physician within one half hour of exposure. If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parenteral fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels) as indicated by clinical signs, symptoms and measurements. In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since abamectin is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic abamectin exposure.

PRECAUTIONS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS

KEEP OUT OF REACH OF CHILDREN.

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Prolonged or

frequently repeated exposure may cause allergic skin reactions in some individuals. Harmful if inhaled or absorbed through the skin. Do not breathe spray mist. Avoid contact with skin. May be fatal if swallowed. Wear coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, socks, chemical-resistant footwear and headgear during mixing, loading, application, clean-up and repair. Mixer/loaders and applicators must wear either a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides. Remove any contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling, before eating, drinking, or using tobacco. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversion, application equipment and sprayer settings.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife.

DO NOT contaminate water when disposing of equipment washwater and rinsate.

DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. DO NOT apply this product or allow drift to blooming crops or weeds if bees are visiting the treatment area.

AVID® 1.9% EC Miticide/Insecticide is toxic to predatory mites, which come in direct contact with spray. Use with caution in a pest management program using these beneficial arthropods.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow drift to blooming crops or weeds if bees are visiting the treatment area.

TOXIC to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

Do not apply this product directly to aquatic habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries or marine habitats. Do not contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment and disposal of wastes.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative

strip between the treated area and the edge of the water body.

If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Syngenta Canada Inc.

STORAGE

Store in a tightly closed container in a cool, dry place. Do not use or store near heat or open flame. Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

DISPOSAL OF UNUSED, UNWANTED PRODUCT

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.

CONTAINER DISPOSAL:

For recyclable containers:

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.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,
CALL 1-800-327-8633 (FASTMED)***

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PAMPHLET

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

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DIRECTIONS FOR USE

DO NOT APPLY using aerial application equipment.

AVID 1.9% EC Miticide/Insecticide is an emulsifiable concentrate containing 19 grams of abamectin per litre which, when mixed with water according to the Directions for Use, will control leafminers and spider mites on greenhouse ornamentals, greenhouse peppers, cucumbers and tomatoes.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of

equipment or disposal of wastes.

Field sprayer application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) fine classification. Boom height must be 60 cm or less above the crop or ground.

Airblast application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. DO NOT apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

Buffer zones:

Spot treatments using hand-held equipment DO NOT require a buffer zone.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop		Buffer Zones (metres) Required for the Protection of:			
			Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:	
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m
Field sprayer	Outdoor ornamentals, boxwood		10	5	120	65
Airblast	Outdoor ornamentals	Early growth stage	30	25	65	55
		Late growth stage	25	15	55	45

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

GREENHOUSE ORNAMENTALS:

Mix with sufficient water and apply as a foliar spray to obtain uniform coverage. For spider mites, apply when mites first appear and repeat as necessary to maintain control. For leafminers, apply as necessary to maintain control but not at less than 7-day intervals. Do not apply this product through any type of irrigation system.

Pest	mL/100 L	Comments
Spider mites ^a	30	Do not apply more than 1200 mL or less than 600 mL. AVID 1.9% EC Miticide/Insecticide per hectare. Use in sufficient water to obtain uniform coverage.
Leafminers ^b	60	

- a. Apply, for example, in 2000 - 4000 L of water/ha. In volumes of water below 2000 L, use a minimum of 600 mL AVID 1.9% EC Miticide/Insecticide/ha. If more than 4000 L of water/ha are required for good plant coverage, apply a maximum rate of 1200 mL AVID 1.9% EC Miticide/Insecticide/ha.
- b. Apply, for example, in 1000 - 2000 L of water/ha. In water volumes below 1000 L, use a minimum of 600 mL AVID 1.9% EC Miticide/Insecticide/ha. If more than 2000 L of water/ha are required for good plant coverage, apply the maximum rate of 1200 mL AVID 1.9%EC Miticide/Insecticide/ha.

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Syngenta Canada Inc. under the User Requested Minor Use Label Expansion program. For these uses, Syngenta Canada Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

GREENHOUSE VEGETABLES:

Mix with sufficient water and apply as a foliar spray to obtain uniform coverage. Apply when listed pests first appear and repeat as necessary to maintain control. Make no more than 5 applications per crop cycle on greenhouse pepper and greenhouse cucumber. Apply no more than 6000 mL product/ha per greenhouse pepper and greenhouse cucumber per crop cycle (114 g abamectin/ha per crop cycle on greenhouse pepper and greenhouse cucumber). Apply no more than 3600 mL product/ha per greenhouse tomato crop cycle (68.4 g abamectin/ha per crop cycle on greenhouse tomato). Do not apply this product through any type of irrigation system.

Pest	Crop	mL product per 100 L water	Comments
Twospotted spider mite	Greenhouse peppers	30	Do not apply more than 1200 mL or less than 600 mL AVID 1.9% EC Miticide/Insecticide per hectare per application. Use in sufficient water to obtain uniform coverage ^a . Application is limited to between February and October and/or when daily light intensity in the greenhouse is at levels higher than 700 Joules/cm ² /day.
	Greenhouse cucumbers and Greenhouse tomatoes	30	Do not apply more than 1200 mL or less than 600 mL AVID 1.9% EC Miticide/Insecticide per hectare per application. Use in sufficient water to obtain uniform coverage ^a .
Leafminer (<i>Liriomyza</i> spp.)	Greenhouse cucumbers and Greenhouse tomatoes	30	Do not apply more than 1200 mL or less than 600 mL AVID 1.9% EC Miticide/Insecticide per hectare per application. Use in sufficient water to obtain uniform coverage ^a .
Tomato psyllid (<i>Bactericera</i> [Paratrioza] cockerelli)	Greenhouse tomato and peppers	30	Do not apply more than 1200 mL or less than 600 mL AVID 1.9% EC Miticide/Insecticide per hectare per application. Use in sufficient water to obtain uniform coverage ^a . For greenhouse peppers, application is limited to between February and October and/or when daylight intensity in the greenhouse is at levels higher than 700 Joules/cm ² /day.

a. Application should be made preferably in 2000 - 4000 L of water/ha. If volumes of water below 2000 L must be used, apply a minimum of 600 mL AVID 1.9% EC Miticide/Insecticide /ha. If volumes of water greater than 4000 L of water/ha are required for good plant coverage, apply a maximum rate of 1200 mL AVID 1.9% EC Miticide/Insecticide /ha.

Do not re-enter treated areas until residues have dried.

DO NOT apply within 3 days of harvest of greenhouse cucumbers and greenhouse peppers.
DO NOT apply within 1 day of harvest of greenhouse tomatoes.

AVID 1.9% EC Miticide/Insecticide has been evaluated for phytotoxicity on a wide range of ornamental plants and on greenhouse peppers, cucumbers and tomatoes. However, since all combinations for sequences of pesticide sprays including surfactants and adjuvants have not been tested, it is recommended that a small area be sprayed first to make certain that no phytotoxicity occurs. Phytotoxicity has been observed following the use of AVID 1.9% EC Miticide/Insecticide on certain species of ferns (e.g. *Adiantum* spp.) and Shasta daisies (*Leucanthemum* spp.). It is, therefore, recommended that AVID 1.9% EC Miticide/Insecticide not be used on ferns or Shasta daisies.

OUTDOOR ORNAMENTALS:

CROP	OUTDOOR ORNAMENTALS
PEST	Leafminers ^a
RATE	600 – 1200 mL per ha Use the higher rate when pest populations are high and/or when foliage is dense.
APPLICATION METHOD	Ground application Apply as a foliar spray to obtain uniform coverage
APPLICATION TIMING	Apply first application when leafminers first appear but before the economic threshold is exceeded. Consult provincial guidelines and local extension experts for optimal timing in your area.
MAXIMUM NUMBER OF APPLICATIONS PER SEASON	Do not apply more than 6 times per year
APPLICATION INTERVAL	7 days
RESTRICTED ENTRY INTERVAL (REI)	Do not re-enter treated areas until residues have dried.
NOTES	^a Apply in sufficient water volume to obtain uniform coverage; 1000 - 2000 L of water/ha is recommended. DO NOT apply using aerial application equipment.
CROP	BOXWOOD
PEST	Boxwood psyllid ^b
RATE	600 – 1200 mL per ha Use the high rate when boxwood psyllid populations are high and/or when the boxwood canopy is dense.
APPLICATION METHOD	Ground application (field sprayer) Apply as a foliar spray to obtain uniform coverage
APPLICATION TIMING	Apply first application when psyllids first appear. Consult provincial guidelines and local extension experts for optimal timing in your area.
MAXIMUM NUMBER OF APPLICATIONS PER SEASON	Do not apply more than 3 times per year
APPLICATION INTERVAL	7 days
RESTRICTED ENTRY INTERVAL (REI)	Do not re-enter treated areas until residues have dried.
NOTES	^b Apply in sufficient water volume to obtain uniform coverage. DO NOT apply using aerial application equipment.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that AVID 1.9% EC Miticide/Insecticide contains a Group 6 miticide/insecticide. Any insect population may contain individuals naturally resistant to AVID 1.9% EC Miticide/Insecticide and other Group 6 miticides/insecticides. The resistant individuals may dominate the insect population if this group of miticides/insecticides is used repeatedly in the same site. 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 miticide/insecticide resistance:

Where possible, rotate the use of AVID 1.9% EC Miticide/Insecticide or other Group 6 miticides/insecticides with different groups that control the same pests.

It is recommended that AVID 1.9% EC Miticide/Insecticide not be applied more than twice in sequence or more than 6 times per crop (annually) or per year for perennials.

Use tank mixtures with miticides/insecticides from a different group when such use is permitted.

Miticide/insecticide use should be based on an IPM program that includes scouting and 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 company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

AVID® is a registered trademark of a Syngenta Group Company.