

2020-1059  
2020-06-12

<b>GROUP</b>	<b>28</b>	<b>INSECTICIDE</b>
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## **Okina™ Insect Control**

SUSPENSION

FOR SALE FOR USE ON GREENHOUSE TOMATOES, PEPPERS, EGGPLANTS AND CUCUMBERS

AGRICULTURAL

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

**ACTIVE INGREDIENT:** Cyantraniliprole 100 g/L

Contains 1,2-Benzisothiazolin-3-one at 0.0193 % as a preservative

-OR-

Contains 5-Chloro-2-methyl-2H-isothiazol-3-one at 0.00085%, 2-Methyl-2H-isothiazol-3-one at 0.00028%  
and Bronopol at 0.0088% as a preservative

Warning, contains the allergen soy.

REGISTRATION NO 32368 PEST CONTROL PRODUCTS ACT

WARNING - SKIN IRRITANT  
POTENTIAL SKIN SENSITIZER

**NET CONTENTS:** 0.5 - 10 LITRES

FMC of Canada Limited  
6755 Mississauga Road, Suite 204  
Mississauga, ON L5N 7Y2  
1-833-362-7722

### **PRECAUTIONS:**

- **KEEP OUT OF REACH OF CHILDREN.**
- Causes skin irritation. Do not get on skin.
- During mixing, loading, applying, and clean-up and repair, workers must wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, goggles or faceshield, socks and chemical-resistant footwear. Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.

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- Users 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.
- Do not enter or allow worker entry into treated areas during the restricted entry interval of 12 hours.
- When applied as a tank-mix combination, read and observe all label directions, including rates, and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary measures stated on both product labels for mixing, loading and applying.
- Use of mist blowers, thermal foggers, ultra-low volume (ULV) and electrostatic sprayers is not permitted.

**FIRST AID:**

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**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 center or doctor for further 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 center or doctor for treatment advice.

For medical emergencies call **1-800-331-3148** (24 hours).

**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

**ENVIRONMENTAL HAZARDS:**

- Toxic to bees and other beneficial insects. May harm bees and other beneficial insects, including those used in greenhouse production. DO NOT apply when bees or other beneficial insects are actively visiting the treatment area.
- Toxic to aquatic organisms.
- DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands), estuarine/marine habitats.
- 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.
- **DO NOT** allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

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**STORAGE:**

Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Keep container closed. To prevent contamination store this product away from food or feed.

**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.

**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.

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<<DFU Booklet>>

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**GENERAL INFORMATION**

Okina™ Insect Control is a suspension that can be applied as a foliar spray, in greenhouses to control listed insect pests. Okina™ Insect Control is specially formulated for foliar application, **DO NOT apply Okina™ Insect Control in irrigation water.** Okina™ Insect Control is mixed with water for foliar application only.

Okina™ Insect Control is a member of the anthranilic diamide class of insecticides which act on insect ryanodine receptors. Although Okina™ Insect Control has contact activity, it is most effective through ingestion of treated plant material. After exposure to Okina™ Insect Control, affected insects will rapidly stop feeding, become paralyzed, and typically die within 1 - 3 days. Time applications to the most susceptible insect pest stage, typically at egg hatch and/or newly hatched larvae or nymphs, before populations reach damaging levels. Use sufficient water to obtain thorough, uniform coverage. When pest populations are high, use the highest listed application rate for that pest. Use the higher rate and high spray volumes for large plants or dense foliage.

Apply at the labelled rates when insect populations reach locally determined economic thresholds. Consult your local extension specialist or certified crop advisor to determine appropriate threshold levels for treatment in your area.

**DIRECTIONS FOR USE**

**FOR USE ON GREENHOUSE CUCUMBERS, GREENHOUSE PEPPERS, GREENHOUSE EGGPLANT AND GREENHOUSE TOMATOES**

**Recommended Spray Volume for Greenhouse Vegetables: .**

SITE	PEST	RATE Okina™ Insect Control / Hectare	SPECIFIC DIRECTIONS
GREENHOUSE CUCUMBERS;	Cabbage looper	250 ml	Begin applications when treatment thresholds have been reached. Thorough coverage is required to obtain optimum control. Select a spray volume appropriate for the size of plants and density of foliage. Use the higher listed rate and higher spray volumes for large plants or dense foliage. Repeat applications if monitoring indicates it is necessary  For optimum control of thrips and whiteflies, apply Hasten NT Spray Adjuvant* at an application rate of 0.25% v/v or MSO Concentrate with Leci-Tech* at an application rate of 0.5% v/v  If thrips populations are above threshold, use a registered knockdown product before applying Okina™ Insect Control.
GREENHOUSE PEPPERS;	Thrips (Suppression)	500 - 1000 ml	
GREENHOUSE TOMATOES  GREENHOUSE EGGPLANT	whiteflies	750 – 1000 ml	

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#### **RESTRICTIONS AND PRECAUTIONS: Greenhouse Vegetables**

- **Foliar use only. DO NOT apply in irrigation water.**
- Do not make more than 4 applications per crop cycle.
- Do not apply more than once every 7 days.
- Minimum time (PHI) between application and harvest is 1 day for peppers, eggplant and tomatoes and 0 days for cucumbers..
- **For use only on tomatoes, peppers, eggplants and cucumbers being grown to harvest in commercial greenhouse crop production facilities. Do not treat plants grown for transplanting. Not for use in nurseries, plant propagation houses or greenhouses by commercial transplant producers on plans being grown for transplanting**
- Do not allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

#### **MIXING INSTRUCTIONS:**

Spray equipment must be clean and free of previous pesticide deposits before applying Okina™ Insect Control. Fill spray tank 1/4 to 1/2 full of water. Add Okina™ Insect Control directly to spray tank. Mix thoroughly to fully disperse the insecticide; once dispersed continued agitation is required. Use mechanical or hydraulic means; do not use air agitation. Spray mix should not be stored overnight in spray tank.

#### **Tank mix and crop tolerance**

Okina™ Insect Control is an oil dispersion. Tank mixing Okina™ Insect Control with some products formulated as emulsifiable concentrates (EC) and certain fungicides can result in crop injury. Strobilurin (Group 11) fungicides, and copper- and captan-containing fungicides applied in tank mixes with Okina™ Insect Control, or applied close in time to application of Okina™ Insect Control, have been shown to cause crop injury under laboratory settings. Tank mixes of Okina™ Insect Control with some products formulated as emulsifiable concentrates (EC), strobilurin (Group 11) fungicides (for example Cabrio\* and Quadris\*), copper and sulfur based fungicides, chlorothalonil based fungicides (for example, Bravo Weather Stik), and the fungicides Captan\*, Tanos\*, Rally\* and Manzate may result in adverse crop response. Some materials including oils, surfactants, adjuvants, nutritionals and pesticide formulations when applied individually, sequentially, or in tank mixtures may solubilize the plant cuticle, facilitate penetration into plant tissue, and increase the potential for crop injury. The application of strobilurin (Group 11) fungicides in a short time sequence (i.e., seven days apart or less between applications) before or after Okina™ Insect Control may also result in adverse crop response. Applying Okina™ Insect Control with any product that produces adverse crop response in a tank mixture, specifically including, but not limited to, those listed above, may also cause adverse crop response when applied in a short time sequence. Such uses should be tested as described below before broad application is made.

Crop varieties can differ in their responsiveness, and environmental conditions can have an influence. It is not possible to test Okina™ Insect Control alone or with all possible tank mix combinations on all crop varieties under all environmental conditions. To prevent potential crop injury, test the mixture in a limited area in accordance with label directions prior to using Okina™ Insect Control with any tank mix partner on a wide area. When considering the use of a tank mixture on a labelled crop without prior experience, or which is not specifically described on Okina™ Insect Control product label or in other product use instruction, or when applying any of the aforementioned products in close sequence with Okina™ Insect Control, it is important to check crop safety first. Follow the most restrictive label. Consult a representative for more information regarding use of Okina™ Insect Control in tank mixtures.

#### **Acidification of Spray Tank**

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If the pH of the final spray solution is high (pH >8) and the spray solution is not going to be sprayed within 4 hours, then a spray tank acidifier should be added to the tank to adjust the pH to 7.5 or less. Spray tanks of approximately pH 8 or less can be held for up to 8 hours before spraying. Do not store the spray mixture overnight in the spray tank.

#### **SPRAYER CLEANUP:**

Prior to application, start with clean, well maintained application equipment. Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove.

Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom and nozzles with clean water. Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

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**RESISTANCE-MANAGEMENT RECOMMENDATIONS:**

For resistance management, please note that Okina™ Insect Control contains a Group 28 insecticide. Any insect population may contain individuals naturally resistant to Okina™ Insect Control and other Group 28 insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same greenhouses. 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 Okina™ Insect Control or other Group 28 insecticides with different groups that control the same pests.
- Make no more than 2 applications Okina™ Insect Control or other group 28 insecticides per generation to the same insect species on a crop. The following application to the target pest(s) must be with a registered product with a different mode of action.
- Avoid using the same mode of action (same IRAC group number) on consecutive generations of insect pests.
- 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 FMC at 1-833-362-7722.

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