

PLANT-FUME NICOTINE

SMOKE FUMIGATOR

TREATS 300 CUBIC METRES

GUARANTEE: Nicotine (expressed as alkaloid)
14.8 g in smoke

Warning, contains the allergen milk. □□

FOR USE ON GREENHOUSE ORNAMENTALS AND
GREENHOUSE CUCUMBERS, TOMATOES, LETTUCE AND
PEPPERS

NET WEIGHT 180 g

AGRICULTURAL

REGISTRATION No. 10 640
PEST CONTROL PRODUCTS ACT.

POISON ... DANGER ... FLAMMABLE

READ THE LABEL BEFORE USING

PLANT PRODUCTS CO. LTD.
BRAMPTON, ONTARIO L6T 1G1

CAUTION: Place cans at least 3 metres from combustible material such as straw, paper , etc

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.

DIRECTIONS FOR USE

Recommended to control aphid, most thrips, chrysanthemum and rose midge, on greenhouse ornamentals, and aphids and thrips on greenhouse tomatoes, cucumbers, lettuce and peppers.

Greenhouse should be tightly closed and temperature maintained at 22-25° C. Smoke fumigators should be placed in such a manner to prevent the smoke hitting the plants nearby. It is preferable to place the fumigators above the plants to allow the smoke to disperse throughout the greenhouse. For tall plants this can be done by wiring the fumigators to a post or by attaching it firmly to a board placed across the top wires.

Puncture the side of the can with two holes at points indicated using a can opener provided.

For even distribution, use one can for every 300 cubic metres, spacing the fumigators throughout the house.

Light the igniters with a match. Drop the lighted igniter through one of the holes in the side of the can. Ignition will take place immediately, and smoke emission builds up slowly. Where the greenhouse being fumigated requires that fumigators be placed in more than one walk, it is recommended that one person be assigned to light the fumigators in each walk, starting at the end furthest from the exit, so that fumigation may start simultaneously and the persons exit from the house simultaneously.

If a circulating fan is present in the greenhouse, it should be turned on for about 15 minutes to ensure uniform coverage.

On tender crops that are in flower a good precaution is to ventilate the greenhouse after 2 1/2 to 3 hours. Wear full face respirator with approved canister when doing this. A quiet day should be selected for fumigation as windy weather causes loss of smoke and drift of fumes.

Nicotine in smoke is extremely hazardous. **DO NOT USE PLANTFUME NICOTINE IN GREENHOUSES WHICH ARE ATTACHED TO OTHER BUILDINGS.** Smoke from the greenhouse could leak into the building.

VENTILATE GREENHOUSE THOROUGHLY AFTER FUMIGATION. A full face mask with approved canister and protective clothing must be worn when ventilating the next day.

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. Do not use on tender plants and African Violets. Avoid inhalation of smoke or fumes. Post houses under treatment. Do not exceed recommended dosages. Do not contaminate feed or food stuffs. When house is ventilated next day, wear full face mask with approved canister and protective clothing. Supplied air must be used if there is exposure to smoke. Do not apply later than 3 days before harvest of tomatoes and cucumbers, 7 days before harvest of lettuce and 5 days before harvest of peppers (one application per planting).

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that Plant-Fume Nicotine Smoke Fumigator contains a Group 4 insecticide. Any insect population may contain individuals naturally resistant to Plant-Fume Nicotine Smoke Fumigator and other Group 4 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 Plant-Fume Nicotine Smoke Fumigator or other Group 4 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 Plant Products Co. Ltd. at 1-800-387-2449.

FIRST AID INSTRUCTIONS: For exposure to fumes, 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. For ingestion of product, call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.

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

TOXICOLOGICAL INFORMATION: The symptoms of poisoning are: pupil of eye shrinks to "pin-point" size, a sense of tightness of chest, stomach pains, vomiting and diarrhea, headaches.

Atropine is antidotal. Administer to the point of tolerance. If patient becomes comatose, give artificial respiration or oxygen. Never give morphine.

Nicotine is a nerve depressant - treat symptomatically.

DISPOSAL: Follow provincial instructions for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on the disposal of the unused, unwanted product and the cleanup of spills contact the Provincial Regulatory Agency or the manufacturer.

0902 51830

EMERGENCY USE LABEL

For emergency use only. For sale for use In British Columbia Vegetable Greenhouses to control loopers in the Genus *Chrysodeixis* until December 31, 2006

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GROWERS USING THIS TREATMENT ARE REQUIRED TO SIGN A WAIVER OF LIABILITY AND INDEMNIFICATION BEFORE PURCHASING AND USING PLANTFUME NICOTINE TO CONTROL *CHRYSODEIXIS*.

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.

DIRECTIONS FOR USE

To control *Chrysodeixis* on greenhouse tomatoes, cucumbers and peppers.

Make a maximum of 2 applications, no less than 3 days apart.

Greenhouse should be tightly closed and temperature maintained at 22-25° C. A quiet day should be selected for fumigation as windy weather causes loss of smoke and drift of fumes. Smoke fumigators should be placed in such a manner to prevent the smoke hitting the plants nearby. It is preferable to place the fumigators above the plants to allow the smoke to disperse throughout the greenhouse. For tall plants this can be done by wiring the fumigators to a post or by attaching it firmly to a board placed across the top wires.

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For even distribution, use one can for every 300 cubic metres, spacing the fumigators throughout the house.

Ignition will take place immediately, and smoke emission builds up slowly. Where the greenhouse being fumigated requires that fumigators be placed in more than one walk, it is recommended that one person be assigned to light the fumigators in each walk, starting at the end furthest from the exit, so that fumigation may start simultaneously and the persons exit from the house simultaneously. Light the igniters with a match. Drop the lighted igniter through one of the holes in the side of the can.

If a circulating fan is present in the greenhouse, it should be turned on for about 15 minutes after all persons have exited the greenhouse to ensure uniform coverage.

On tender crops that are in flower a good precaution is to ventilate the greenhouse after 2 1/2 to 3 hours. Do not enter the treated greenhouse until 12 hours after application and until thorough ventilation. Workers must wear a long sleeve shirt, long pants and chemical resistant gloves when handling the treated crop.

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VENTILATE GREENHOUSE THOROUGHLY AFTER FUMIGATION. Do not enter the treated greenhouse until 12 hours after application and until thorough ventilation. Workers must wear a long sleeve shirt, long pants and chemical resistant gloves when handling the treated crop.

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. Do not use on tender plants and African Violets. Avoid inhalation of smoke or fumes. Post houses under treatment. Do not exceed recommended dosages. Do not contaminate feed or food stuffs. Do not apply later than 3 days before harvest of tomatoes and cucumbers and 5 days before harvest of peppers.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that Plant-Fume Nicotine Smoke Fumigator contains a Group 4 insecticide. Any insect population may contain individuals naturally resistant to Plant-Fume Nicotine Smoke Fumigator and other Group 4 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:

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