

22-OCT-2001

((Label))

MATADOR® 50EC

EMULSIFIABLE CONCENTRATE INSECTICIDE

AGRICULTURAL

For the Control of Insects on Tree
Fruit, Tobacco, Potatoes and Cole Crops

GUARANTEE:

cyhalothrin-lambda 50 g/L

READ THE LABEL BEFORE USING
KEEP OUT OF REACH OF CHILDREN

REGISTRATION NUMBER **24566**
PEST CONTROL PRODUCTS ACT

DANGER



POISON

DANGER: EYE IRRITANT
CAUTION: SKIN IRRITANT
POTENTIAL SKIN SENSITIZER

NET CONTENTS: **1 Litre**

Syngenta Crop Protection Canada, Inc.
140 Research Lane
Research Park, University of Guelph
Guelph, Ontario
N1G 4Z3

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.

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.

FIRST AID:

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

If swallowed, do not induce vomiting. Get medical attention or call poison control centre immediately. If patient is unconscious, give him air. Do not give anything by mouth to an unconscious person.

If splashed in eyes, wash for 15 minutes with plenty of clean water and get medical attention immediately.

If on skin, wash immediately with soap and water. If irritation develops, get medical attention.

TOXICOLOGICAL INFORMATION:

This product contains more than 80 percent petroleum distillate. If swallowed, perform gastric lavage, taking care to prevent aspiration of gastric contents; treat symptomatically. This product has potential for skin and eye irritation; treat symptomatically. In case of exposure to skin of face or other sensitive areas, some individuals may feel a tingling or numbness. This is a transitory effect and does not cause harm to skin.

PRECAUTIONS:

1. KEEP OUT OF REACH OF CHILDREN AND ANIMALS. Keep unused product in original container tightly closed, locked up and away from food.
2. MATADOR 50EC insecticide has potential for skin and eye irritation. Avoid splashing in eyes or on skin, particularly the face. If hands are contaminated, wash with soap and water before touching other areas of skin. When applying this product, workers should wear long pants, long-sleeved shirts, and work boots. In addition, during mixing, loading, clean-up and repair activities, workers

- must also wear chemical resistant gloves, safety goggles and a face shield. Avoid touching face with contaminated gloves or clothing. Wash gloves before removal. Wash protective equipment with soap and water after each use.
3. This product is very toxic to fish and aquatic organisms. Do not contaminate ponds, lakes, streams or rivers during sprayer filling or rinsing operations or while spraying. Do not apply within 15 metres of productive fisheries water or waterfowl habitat.
 4. This product is very toxic to bees. Avoid spraying when bees are foraging. Spray deposits should be dry before bees commence foraging in treated crop.
 5. Do not apply when weather conditions favour drift from the target area. Ground application only, do not apply by air.
 6. Do not feed or graze livestock on treated crops.
 7. Do not re-enter treated areas until 24 hours after treatment. If early re-entry into treated areas is required, workers must wear long pants, long sleeved shirts, chemical resistant gloves, work boots and a hat.
 8. Workers shall be given oral warning of the re-entry interval. The warning shall consist of:
 - i. The location and description of the treated area.
 - ii. The time during which entry is restricted.
 - iii. Instructions not to enter the treated area until the re-entry interval has expired.

STORAGE:

Store in a cool, well ventilated area away from foodstuffs and out of the reach of children and animals. Store above 0°C. Storage below 0°C will not impair the effectiveness of MATADOR 50EC insecticide, however, following such storage, agitate well before use.

SPILL CLEANUP:

Wear appropriate protective equipment (gloves, glasses, apron) when attempting to clean up the spill. If the container is leaking, secure leak and place the container into a drum or heavy gauge plastic bag. Contact Syngenta Crop Protection Canada, Inc. (See EMERGENCY NUMBER for further information).

For spills and leaks - contain the liquid with dikes of inert material (soil, clay, kitty litter etc.). Absorb the spill onto inert material and shovel into a sealable waste container.

On hard surfaces - sprinkle spill area with detergent and scrub in a small quantity of water with a coarse broom. Let stand 10 minutes then absorb onto an inert material and shovel into the waste container.

On soil - remove the top 15 cm of soil in the spill area and replace with fresh soil. Dispose of all waste including scrub brush in accordance with provincial requirements. For more information on the disposal of waste and the clean up of spills, contact the Provincial Regulatory Agency or the manufacturer.

DECONTAMINATION AND DISPOSAL:

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 DISPOSAL OF PLASTIC JUGS:

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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CALL 1-800-327-8633 (FASTMED)**

PRODUCT INFORMATION:

MATADOR 50EC insecticide is a photostable, synthetic pyrethroid insecticide. It is a fast acting stomach and contact insecticide effective against a broad spectrum of foliar pests. It has no fumigant or systemic activity. Best results will be obtained with MATADOR 50EC insecticide when applied against the early development stages of the pest as determined by regular monitoring.

DIRECTIONS FOR USE:

Control of some insect species with pyrethroid insecticides decreases as temperature rises. For best results, apply MATADOR 50EC insecticide during the early morning before temperatures rise, and during the evening, past the heat of the day. Use sufficient water for thorough coverage. Apply by ground sprayers only, do not apply by air.

For air blast sprayer application in orchards, an 80 m buffer zone should be observed between the treatment area and lakes, ponds, rivers, streams and wetland areas.

Optimum application timing for the control of specific pest species is best determined by monitoring pest development and populations. In general, MATADOR 50EC insecticide is most effective against early developmental stages of surface feeding pests and against adults of pests which deposit eggs within plant parts. Follow recommendations provided by local pest monitoring services regarding appropriate application timing for your area. Follow provincial spray calendars for optimum timing of programmed spray applications.

Repeated applications are not advised for orchards where integrated pest management programs are being followed because severe reductions of beneficial arthropods may result.

If pest monitoring services recommend repeated insecticide applications, consider alternating MATADOR 50EC insecticide applications with insecticides from different classes to prevent the development of resistant pest populations. Localized populations of some insect pests (e.g., Colorado Potato Beetle, Spotted Tentiform Leafminer) have developed resistance to other synthetic pyrethroid insecticides and can be expected to quickly develop resistance to MATADOR 50EC insecticide. Consult regional extension specialists regarding the susceptibility of local populations. Follow Integrated Pest Management (IPM) techniques to minimize the need for insecticide applications and ensure that needed applications are timed for optimum effectiveness.

FRUIT CROPS

APPLES: **Apple Aphid, Apple Brown Bug, Apple Leaf Curling Midge, Codling Moth, Spotted Tentiform Leafminer, Wintermoth** - Apply 200 mL of MATADOR 50EC insecticide per hectare. **Plum Curculio, Tarnished Plant Bug, Woolly Apple Aphid** - Apply 250 mL MATADOR 50EC insecticide per hectare. Timing of applications should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.

Do not apply within 7 days of harvest. Do not use more than 3 applications per year. Allow a 7 day interval between treatments.

CHERRIES: **Plum Curculio, Cherry Maggot** - Apply 250 mL of MATADOR 50EC insecticide per hectare. To control **Plum Curculio**, apply MATADOR 50EC insecticide at the shuck stage, when the fruit is the size of a pea, and 10 to 12 days later if oviposition scars are detected. **Cherry Maggot** is controlled by applications when the fruit is turning from green to pink. A second application may be required 10 days later.

Do not apply within 7 days of harvest. Do not use more than 3 applications per year. Allow a 7 day interval between treatments.

PEACHES AND NECTARINES: **Green Peach Aphid, Oriental Fruit Moth, Tarnished Plant Bug** - Apply 250 mL of MATADOR 50EC insecticide per hectare. Timing of applications should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.

Do not apply within 7 days of harvest. Do not use more than 3 applications per year. Allow a 7 day interval between treatments.

PEARS: **Pear Psylla (Nymphs and Adults), Codling Moth** - Apply 200 mL of MATADOR 50EC insecticide per hectare. Timing of applications should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.

Do not apply within 7 days of harvest. Do not use more than 1 application per year.

PLUMS: **Plum Curculio, Mealy Plum Aphid** - Apply 250 mL of MATADOR 50EC insecticide per hectare. To control **Plum Curculio**, apply MATADOR 50EC insecticide at the shuck stage, when the fruit is the size of a pea, and 10 to 12 days later if oviposition scars are detected. Timing of application for **Mealy Plum aphid** control should be based on local monitoring for significant populations.

Do not apply within 7 days of harvest. Do not use more than 3 applications per year. Allow a 7 day interval between treatments.

VEGETABLE CROPS

COLE CROPS (Broccoli, Brussels Sprouts, Cabbage, Cauliflower): Crucifer Flea Beetle, Diamondback Moth Larvae, Imported Cabbageworm - Apply 100 mL of MATADOR 50EC insecticide per hectare. **Cabbage Looper** - Apply 200 mL of

MATADOR 50EC insecticide per hectare. Timing of applications should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring.

Do not apply within 1 day of harvesting cabbage and 3 days of harvesting broccoli, Brussels sprouts or cauliflower. Do not use more than 3 applications per year. Allow a 7 day interval between treatments.

POTATOES: Colorado Potato Beetle, Potato Flea Beetle, Potato Leafhopper, Tarnished Plant Bug, and Tuber Flea Beetle - Apply 200 mL of MATADOR 50EC insecticide per hectare when insects or damage appear. Timing of applications should be based on the presence of vulnerable pest developmental stages and significant populations as determined by local monitoring. **Colorado Potato Beetle** susceptibility to pyrethroid insecticides should be confirmed using an appropriate assay.

Do not apply within 7 days of harvest. Do not use more than 3 applications per year. Allow a 7 day interval between treatments.

TOBACCO

TOBACCO Seedlings, Greenhouse: Cutworm (Darksided and White) Control: Mix 5 mL (1 teaspoonful) of MATADOR 50EC insecticide in 30 L of water and apply to 200 m² of plant bed.

FIELD TOBACCO: For control of **darksided cutworm** and **white cutworm**, by methods given below, apply the recommended rate of MATADOR 50EC insecticide in 225 to 450 L of water per hectare using spray pressure of 175 to 350 kPa. Cutworm activity is greatest during the late evening and night. Application of MATADOR 50EC insecticide should be timed as close as possible to insect feeding activity.

COVER CROP TREATMENT: Apply 100 mL of MATADOR 50EC insecticide per hectare once to rye or wheat cover when crop is 10 to 15 cm high, 4-5 days before ploughdown. Application should also be made to fence rows and to a 15 m strip into nearby cover crop.

SOIL TREATMENT: Apply 200 mL of MATADOR 50EC insecticide per hectare once to the soil 5 days before transplanting. Do not incorporate. Do not disturb the soil surface for at least 5 days following treatment since mixing of MATADOR 50EC insecticide with soil will reduce its effectiveness. Application should also be made to fence rows and to a 15 m strip into nearby cover crops.

POST PLANTING TREATMENT: At transplanting, apply 200 mL of MATADOR 50EC insecticide per hectare of area sprayed in a 25 cm band over the row using 150 to 300 L of water per hectare. Under conditions of severe insect pressure, application should be made to fence rows and to a 15 m wide strip into nearby cover crops. A follow-up treatment may be necessary if there are late developing cutworms.

Do not use more than 1 application per year. Do not apply within 60 days of harvest.

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