



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

MAR 24 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

A. Eimanis
MAKHTESHIM-AGAN OF NORTH AMERICA INC.
551 Fifth Avenue
New York, NY 10176

Subject: Label Amendment Submission of 09/14/93 in Response to PR Notice 93-7
EPA Reg. No. 66222-2
ENDOSULFAN (THONEX) 50W

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.

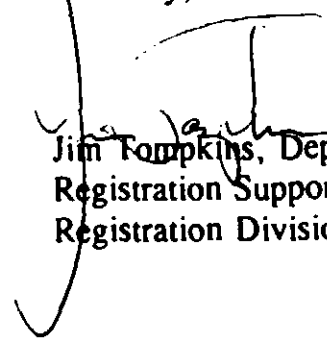
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division

A. Eimanis
MAKHTESHIM-AGAN OF NORTH AMERICA INC
551 FIFTH AVENUE - STE 1100
NEW YORK NY 10176

Comment for: EPA Reg Nr.66222-2
ENDOSULFAN (THIONEX) 50W

The following specific comments pertain to your WPS
labeling submission concerning the product
cited above:

Delete the crossed-out statements on your proposed label.
They are redundant statements or phrases.

Correct the typographical errors circled on your proposed
label.

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ENDOSULFAN (THONEX) 50W

A wettable powder insecticide for control of many insects on fruit, vegetable, tobacco and ornamentals.

ACTIVE INGREDIENT:

Endosulfan
(Hexachlorohexahydromethano-2,4,3-benzodioxathiepin 3-oxide) 50%

INERT INGREDIENTS: 50%
100%

ACCEPTED
with COMMENTS
In EPA Letter Dated

MAR 24 1994

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

66225-2

For Agricultural Use Only

KEEP OUT OF REACH OF CHILDREN

DANGER
PELIGRO



POISON

~~PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicado ampliamente.~~

Si usted no entiende la etiqueta, busque a algun para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

STATEMENT OF PRACTICAL TREATMENT

If swallowed- Call a physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting by touching the back of throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

If inhaled - Remove victim to fresh air. Apply artificial respiration if indicated.

If on skin - ~~Remove contaminated clothing and~~ wash affected areas with soap and water.

If in eyes - Flush eyes with plenty of water. Call a physician immediately.

See side panel for additional precautionary statements.

Note to Physicians: Endosulfan is a central nervous system stimulant and may cause convulsions. There is no specific antidote. Barbituric acid derivatives may be used in treatment.

WARRANTY STATEMENT

Notice: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instruction, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

Manufactured by: Makhteshim-Agan of North America Inc.
551 Fifth Avenue, Suite 1100
New York, NY 10176

EPA Reg. No. 66222-2

EPA Est. No. _____

Net Weight _____

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

DANGER

Poisonous if swallowed, or absorbed through the skin. May be fatal if inhaled. Do not get in eyes, on skin or on clothing. ~~Applicators and mixer loaders should wear clean synthetic rubber gloves, protective clothing, goggles and a pesticide respirator jointly approved by the Mining Safety and Health Administration (MSHA) and the National Institute for Occupational Safety and Health (NIOSH) under the provisions of 30 CFR Part II for protection against Endosulfan. Wash hands, arms and face thoroughly with soap and water after handling and before eating or smoking. Wash all contaminated clothing with soap and hot water before reuse.~~

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- 1) Coveralls over short-sleeved shirt and short pants;
- 2) Waterproof gloves;
- 3) Chemical-resistant footwear plus socks;
- 4) Protective eyewear;
- 5) Chemical-resistant headgear for overhead exposure;
- 6) Chemical-resistant apron when cleaning equipment, mixing or loading;
- 7) A respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENT

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- 2) Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 3) Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds, and other wildlife. Birds feeding on treated areas may be killed. Do not apply directly to water or wetlands. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label. This product is toxic to bees and should not be applied when bees are actively visiting the area.

STORAGE AND DISPOSAL

Storage: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

Disposal:

Pesticide: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

In case of minor spills, follow all precautions indicated above and cleanup immediately. Sweep up and dispose of wastes and broken or empty containers in a landfill approved for pesticide use.

Container: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- 1) Coveralls over short-sleeved shirt and short pants.
- 2) Waterproof gloves.
- 3) Chemical-resistant footwear plus socks.
- 4) Protective eyewear.
- 5) Chemical-resistant headgear for overhead exposure.

RE-ENTRY STATEMENT

~~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 treated areas for 48 hours unless appropriate protective clothing is worn. Protective clothing means, at least, a hat or other suitable head covering, a long-sleeved shirt and long-legged trousers or a coverall-type garment (all of closely woven fabric covering the body, including the arms and legs), shoes and socks. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.~~

~~Written or oral warnings must be given to workers who are expected to be in a treated areas or in an area about to be treated with this product. Inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure. An example of such information is given under written warnings. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information:~~

DANGER

~~Area treated with Endosulfan (insert date). Do not enter without appropriate protective clothing for 48 hours (insert State Department of Agriculture's re-entry interval, if more restrictive).~~

~~In case of accidental exposure to pesticide spray or dust, wash the skin thoroughly with soap and water. Remove contaminated clothing and wash before re-use. If in eyes, flush with plenty of water. If inhaled, go to an area where the pesticide has not been applied. Get medical attention if needed.~~

Apply when insects first appear and repeat as required to maintain control. Observe limitations of number of applications and time interval between last application and harvest.

<u>CROP</u>	<u>TO CONTROL</u>	<u>DOSAGE LBS/100 GALS OF WATER</u>	<u>LIMITATIONS</u>
Apples	Apple aphid	1	Do not apply within 30 days of harvest.
Pomace from treated apples should not be fed to livestock. Do not feed cull fruits to animals nor allow livestock to graze treated orchards.			
Peaches	Cat-facing insects, (Stink bug type) Green peach aphid	1	Do not apply within 30 days of harvest. Do not apply more than 2 applications during the fruiting period.
	Lesser peach tree borer Peach tree borer	1 1/2 1 1/2	For lesser peach borer control, thorough wetting of trunks and main branches is important. Spray all bark areas from ground level to scaffold limbs as required to maintain effective control. Do not apply within 21 days of harvest.

Do not feed cull fruits to animals nor allow livestock to graze treated orchards.

Ornamentals (Greenhouse and out of doors)	Aphids Cyclamen mite	1	On chrysanthemums best results will be obtained if applied before plant flower.
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This product may injure birch trees and certain varieties of chrysanthemums such as Bonnafon Deluxe.

Strawberries	Cyclamen mite	1	Spray plants thoroughly . Apply 400 gallons of spray per acre and thoroughly wet stems, foliage, and crowns of the plants. For multiple applications, do not apply at intervals less than 35 days during the fruiting period. Do not apply within 4 days of harvest.
	Meadow spittlebug Strawberry aphid	1	Apply as required.

Do not apply at intervals of less than 35 days or more than twice during any 35 day period when fruit is present. Do not apply within 4 days of picking berries.

Tobacco	Flea beetle Hornworm Budworm Green peach aphid	1	Seed Beds: Apply about 6 gallons per 100 square yards. Field: Use 1 to 2 pounds per acre and apply in sufficient water for uniform coverage. Do not apply within 5 days of harvest.
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VEGETABLES

Broccoli Cabbage	Aphid Cabbage worm Flea beetle Harlequin bug Stink bug	1 1/2 to 2	Do not apply within 7 days of harvest.
Eggplants	Blister beetle	1	Do not apply within 1 day of harvest.

Do not exceed 0.5 pounds active ingredient endosulfan (1 lb. of this product) per acre.

Tomatoes (Field and Greenhouse)	Colorado potato beetle Flea beetle Green peach aphid Green stink bug Whitefly Hornworm	1 to 2	
Peppers	Flea beetle Colorado potato beetle Leafhopper Aphid	1	Do not apply within 1 day of harvest.

Cucumbers
Melons
Pumpkins
Squash

Aphid
Cucumber beetle
Squash vine borer
Striped cabbage
Flea beetle

1 to 2

For vine borer control, apply weekly to flower buds stems and vines beginning when moths first appear. May be applied to harvest.

NOT FOR USE OR STORAGE IN OR AROUND HOME

ver. 21DEC84 w/ WPS