

MAR 30 1995

Ms. Carol Odee  
Makhteshim-Agan of North America Inc.  
551 Fifth Avenue, Suite 1100  
New York, NY 10176

Dear Ms. Odee:

Subject: Amendment - Update label  
Thionex (Endosulfan) 35 EC  
EPA Reg. No. 11678-25  
Your submission dated March 18, 1991

The amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(7)(a), is acceptable provided that you:

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling
  - a) In the ingredients statement, add a double asterisk after INERT INGREDIENTS which will refer down to a second footnote "\*\*\*Contains xylene range aromatic solvent".
  - b) Revise the signal word to DANGER POISON with a skull and crossbones symbol in red.
  - c) Revise the Statement of Practical Treatment to read as follows:

**STATEMENT OF PRACTICAL TREATMENT**

**If swallowed:** Call a physician or Poison Control Center immediately. If possible, vomiting should be induced under medical supervision. Drink one or two glasses of water

1 of 5

and induce vomiting by touching back of throat with a finger or by giving one (1) ounce of syrup of ipecac, if available. If person is unconscious or convulsing, do not give anything by mouth and do not induce vomiting.

**If inhaled:** Remove victim to fresh air. Apply artificial respiration if indicated. Get medical attention.

**If on skin:** Remove contaminated clothing and wash skin with soap and water. Get medical attention.

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

**Note to Physician:** Endosulfan is a central nervous system stimulant absorbable by mouth, inhalation, or through contact with skin. It may cause convulsions. There is no specific antidote. Diazepam I.V. is the drug of choice. Barbituric acid derivatives such as Phenobarbital may be used additionally. A neuromuscular blocking agent may be used if convulsions persist. This type of drug may be used only if complete control of respiration can be maintained. Epinephrine derivatives are absolutely contraindicated.

- d) Revise the text of the **HAZARDS TO HUMANS AND DOMESTIC ANIMALS** to read as follows:

**DANGER**

Fatal if swallowed. Corrosive. Causes irreversible eye damage. Do not get in eyes, on skin, or on clothing. May be fatal if inhaled or absorbed through skin. Do not breathe vapor or spray mist. During formulating and loading operations wear 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), goggles or face shield, protective clothing, and chemical resistant gloves such as barrier laminate or Viton >14 mils. Wash hands, arms, and face thoroughly with soap and water after handling and before smoking or eating. Wash all contaminated clothing with soap and hot water separately from other laundry before reuse.

- e) Revise the Environmental Hazards to read as follows:

This product is toxic to fish, birds, and other wildlife. Do not discharge effluent containing this product directly

into lakes, streams, ponds, estuaries, oceans or public waters unless this product is specifically identified and addressed in an NPDES Permit. Do not discharge effluent containing this product into sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the Environmental Protection Agency.

- f) Revise the PHYSICAL AND CHEMICAL HAZARDS to read as follows:

Do not use or store near heat or open flame.

- g) At this time the Agency cannot accept the limitation on manufacturing-use labels of a maximum pounds per acre per year for all end use products because this would require a Label Improvement Program type call-in of all endosulfan products and such action is not anticipated prior to the Reregistration Eligibility Document being issued for this active ingredient. At that time the issue of adding such a limitation to manufacturing use products will be considered. Therefore, revise the introduction to the listing of crops to read: **FOR FORMULATION INTO END-USE INSECTICIDE PRODUCTS FOR THE USES LISTED BELOW:** and then delete the heading **Max.Lbs. a.i./Acre/Year** and the associated column of numbers (i.e., retain only the crop listing with their associated headings).

A stamped copy of the label is enclosed for your records.

- 3) Submit three (3) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

Sincerely,

George T. LaRocca  
Product Manager (13)  
Insecticide-Rodenticide Branch  
Registration Division (H7505C)

# THIONEX (ENDOSULFAN) 35 EC

For the formulation of insecticides and acaricides only.

EPA Reg. No. 11678-25

EPA Est. No. 11678-IS-01

## ACTIVE INGREDIENT:

\*Endosulfan  
(Hexachlorohexahydromethano-2,4,3-  
benzodioxathiepin 3-oxide)..... 35%

INERT INGREDIENTS..... 65%  
Total 100%

\*Thionex

KEEP OUT OF REACH OF CHILDREN

## WARNING

### 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 from contaminated area and have patient lie down and keep quiet.

If on skin - Remove contaminated clothing and wash skin immediately with soap and water.

If in eyes - Wash with flowing water for at least 15 minutes.

Notice 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.

## PRECAUTIONARY STATEMENTS

Hazards to Humans (& Domestic Animals)

### WARNING

May be fatal if swallowed or absorbed through the skin. May be fatal if inhaled. Do not get in eyes, on skin or on clothing. Wear natural rubber gloves, protective clothing and goggles. In case of contact, wash immediately with soap and water. During manufacturing, wear a respirator jointly approved by the Mine Safety and Health Administration (MSHA) and the National Institute for Occupational Safety and Health (NIOSH) for pesticide application under the provisions of 30 CFR Part II. Wash hands, arms and face thoroughly with soap and water before eating or smoking. Wash all contaminated clothing with soap and hot water before reuse.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not discharge effluent containing this active ingredient into lakes, streams, ponds, estuaries, oceans or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product into sewage systems without providing notification to the Sewage District Authority. For guidance, contact your State water board or regional office of EPA.

### PHYSICAL AND CHEMICAL HAZARDS

Store in a cool dry place. Keep away from open flame.

### STORAGE AND DISPOSAL

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

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or insecticide 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 clean up immediately. Sweep up and dispose of wastes and broken or empty containers in a landfill approved for pesticide use.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling, reconditioning or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

### Net Contents

Manufactured by:  
MAKHTESHIM CHEMICAL WORKS, LTD.  
c/o Makhteshim-Agan (America) Inc.  
245 Fifth Avenue, Suite 1901  
New York, N.Y. 10016

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

MAR 30 1995

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

11678-25

4

# DIRECTIONS FOR USE

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

For the formulation of insecticides and acaricides for greenhouse use, tree fruit and nut crops, field and vegetable crops, and domestic outdoor use only. Refer to technical bulletins TH-T and TH-ATF/1 for further information on specifications of Thionex (Endosulfan) Technical.

FOR FORMULATION INTO END-USE INSECTICIDE PRODUCTS FOR THE USES LISTED AND AT NO MORE THAN THE MAXIMUM AMOUNT OF ACTIVE INGREDIENT NOTED.

USE	Max. Lbs. a.i./Acre/Year
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## Outdoor Tree Fruit and Nut Crops

Apples	3.0
Apricots	3.0
Cherries	3.0
Citrus (non-bearing)	3.0
Filberts	3.0
Nectarines	3.0
Peaches	3.0
Pears	3.0
Pecans	3.0
Plums	3.0
Prunes	3.0
Walnuts	3.0

## Field and Vegetable Crops

Alfalfa (grown for forage)	0.75
Artichokes	2.0
Barley	1.0
Beans (except lima)	3.0
Blueberries	3.0
Broccoli	3.0
Brussels sprouts	3.0
Cabbage	3.0
Carrots	1.0
Cauliflower	3.0
Celery	1.0
Collards	1.0
Cotton	3.0
Cucumbers	3.0
Eggplant	1.0
Grapes	3.0
Kale	0.75
Lettuce	3.0
Melons	3.0
Mustard greens	1.0
Oats	1.0
Peas (seed crop)	1.5
Peppers (1 day PH)	1.0
Peppers (4 day PH)	2.0
Pineapples	3.0
Potatoes	3.0
Pumpkins	3.0
Rye	1.0
Safflower	2.0
Spinach	1.0
Squash	3.0
Strawberries	3.0
Sugar beets	2.0
Sunflower	3.0
Sweet corn	3.0
Sweet potatoes	3.0
Tobacco	3.0
Tomatoes	3.0
Wheat	1.0

## Domestic Outdoor Ornamental Plants, Trees and Shrubs

Leatherleaf fern	3.0
Ornamentals	3.0
Dogwood	3.0
Lilac	3.0
Douglas fir	3.0
Pines	3.0
Shade trees (except birch)	3.0
Spruce	3.0
Taxus	3.0

## Greenhouse Uses

Ornamental plants	3.0
Tomatoes	3.0

FORMULATORS OF THIS PRODUCT ARE RESPONSIBLE FOR OBTAINING EPA REGISTRATION FOR THEIR FORMULATED PRODUCTS.

## WARRANTY STATEMENT

NOTICE: Seile warrants that the product conforms to its chemical description and is reasonably fit for the purpose 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.

Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herewith.

Makhteshim Chemical Works Ltd.  
c/o Makhteshim-Agan (America) Inc.  
245 Fifth Avenue, Suite 1901  
New York, N.Y. 10016

ver.2/91

5