



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Dr. Nang-Ly Chow
Aventis CropScience USA, LP
P.O. Box 12014
2 T.W. Alexander Drive
Research Triangle Park, NC 27709

JAN 14 2002

Dear Dr. Chow:

Subject: Amendment - Delete unsupported uses/add limitations
Thiodan Technical
EPA Registration Number 264-637
Your submission dated July 9, 1999 and April 3, 2001
and your FAX January 14, 2002

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. Please note that the entire Statement of Practical Treatment should be updated to comply with the FIRST AID format indicated in PR Notice 2001-1.
 - b. In the Outdoor Fruit and Nut Crops listing, you may re-add the crop Raspberries (in its correct alphabetical location in the crop listing), which your cover letter had indicated is a supported use.
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.

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

Sincerely,

George T. LaRocca
Product Manager 13
Insecticide Branch
Registration Division (7505C)

3/8

THIODAN® TECHNICAL

4/03/01

An Insecticide For Formulating Use Only

ACTIVE INGREDIENT:

Endosulfan (Hexachlorohexahydromethano-2,4,3-benzodioxathiepin-3-oxide)...95%

INERT INGREDIENTS: 5%
TOTAL 100%

KEEP OUT OF REACH OF CHILDREN

**DANGER - PELIGRO
POISON**

STATEMENT OF PRACTICAL TREATMENT

AGU...
with COMMENTS
In EPA Letter Dated:
JAN 14 2002
Under the FIFRA Insecticide,
Fungicide, and Plant Growth Regulator Act,
as amended, for the pesticide
registered under EPA Reg. No.
264-637

IF SWALLOWED: Call a physician or Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomiting by touching the back of the throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to a person who is unconscious or convulsing.

IF ON SKIN: Remove contaminated clothing and wash affected areas with soap and water. Get medical attention.

IF IN EYES: Flush eyes for at least 15 minutes with water. Call physician immediately.

IF INHALED: Remove victim to fresh air. Apply artificial respiration if indicated. Get medical attention.

NOTE TO PHYSICIANS: 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.

For MEDICAL and TRANSPORTATION Emergencies ONLY, Call 24 Hours A Day 1-800-334-7577. For PRODUCT USE Information, Call 1-888-AVENTIS (1-888-283-6847)

See other panels for additional precautionary information.

EPA REG. NO.: 264-637

EPA EST. NO.:

Aventis CropScience USA LP
P.O.Box 12014, 2 T.W. Alexander Drive,
Research Triangle Park, N.C. 27709

NET CONTENTS:

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
AND DOMESTIC ANIMALS**

DANGER

Fatal if swallowed, inhaled or absorbed through skin. Do not breathe vapors. Do not get in eyes, on skin or on clothing. During formulating and loading operations wear clean synthetic rubber gloves, protective clothing (such as coveralls, socks and shoes), protective eyewear, and a pesticide 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). Wash thoroughly with soap and water after handling and before eating or smoking. Wash all contaminated clothing with soap and hot water before reuse.

ENVIRONMENTAL HAZARDS

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 other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the Environmental Protection Agency.

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

PESTICIDE STORAGE: Keep out of reach of children and animals. Store in tightly capped original containers only. Store in a cool, dry, well ventilated place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. The solid technical is sensitive to moisture, acids, and bases. Decomposition will generate sulfur dioxide and endosulfan alcohol. Care should be exercised by workers entering the storage area since there is a possibility that sulfur dioxide may be present. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

In case of spill: avoid contact, isolate area and keep out animals and unprotected persons. Confine spills.

To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

PESTICIDE DISPOSAL: 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.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Do not cut or weld metal containers.

FORMULATOR INFORMATION: Formulators using this product are responsible for obtaining EPA registration for their formulated products. Formulators are encouraged to contact Aventis for the Thiodan[®] Technical Bulletin, which contains the chemical and physical data for the technical.

THIS PRODUCT IS TO BE USED SOLELY FOR FORMULATION INTO end-use products for use on commercial agricultural crops and for outdoor commercial production of ornamental trees and shrubs. Do not use or formulate this product into any products in the form of a fogger, impregnated materials, insecticidal smoke, dust, pressurized liquid (i.e., spray cans –but not including EC or WP formulations applied by pump sprayers) or aerosol spray designed to automatically release the contents. The commercial use categories and formulation restrictions are described below.

DO NOT USE THIS PRODUCT TO FORMULATE END-USE PRODUCTS FOR: a) any use in or around a structure used as a residence or domestic dwelling, or on any articles or areas associated with such structures (including household contents, home gardens and greenhouses); or b) any use in the form of a fogger, impregnated materials, insecticidal smoke, dust, pressurized liquid (i.e., spray cans –but not including EC or WP formulations applied by pump sprayers) or aerosol spray inside a commercial greenhouse, or public or private building or structure (including recreational facilities, theaters, hotels, resorts, or other buildings used for public accommodation, or any other commercial, industrial, or institutional building), or on any articles or areas associated with such structures including building contents and landscaping (but not including outdoor commercial ornamental tree and shrub production areas).

FOR FORMULATION INTO END-USE INSECTICIDE PRODUCTS FOR THE FOLLOWING USES:

Outdoor Fruit and Nut Crops:

- Almonds
- Apples
- Apricots
- Blueberries
- Cherries
- Cherry Nursery Stock Dip
- Citrus (Non-Bearing Trees & Nursery Stock)
- Filberts
- Grapes
- Nectarines
- Peaches
- Peach Nursery Stock Dip
- Pears
- Pecans
- Pineapples
- Plums
- Plum Nursery Stock Dip
- Prunes
- Strawberries
- Strawberries (dip application) – Northwest Use Only
- Walnuts

Field and Vegetable Crops:

- Barley
- Beans (Succulent & Dry, Except Lima)
- Broccoli
- Brussels Sprouts
- Cabbage
- Carrots

Cauliflower
 Celery
 Collards
 Corn, sweet (for fresh vegetable use only)
 Cotton
 Cucumbers
 Eggplants
 Kale
 Lettuce
 Melons (all)
 Mustard Greens
 Oats
 Peas (Succulent)
 Peppers
 Potatoes
 Pumpkins
 Rye
 Spinach
 Squash (Summer and Winter)
 Sweet Potatoes
 Tobacco
 Tomatoes
 Turnip Greens
 Wheat

Commercial Greenhouse Use:

Tomatoes

Ornamental Trees and Shrubs (Commercially Grown outdoors only)

i.e., Boxelder
 Dogwood
 Douglas Fir (grown for ornamentals, nursery stock or Christmas trees; Pacific Northwest only)
 Elm
 Lilac
 Pines (Austrian, Jack, Red, Scotch, White)
 Shade Trees (except Birch)
 Shrubs
 Spruce (New England Area only)
 Taxus

Thiodan is a registered trademark of Hoechst Ag.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Aventis CropScience. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: AVENTIS CROPSCIENCE MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Aventis CropScience is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. AVENTIS CROPSCIENCE DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT AVENTIS CROPSCIENCE'S ELECTION, THE REPLACEMENT OF PRODUCT.

Aventis CropScience USA LP
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Supersedes -D110300 Doc (email to EPA) and
Supersedes Label\D110200\MD1024000.doc (fax to EPA)