

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Mr. Don Carlson FMC Corporation 1735 Market Street Philadelphia, PA 19103

JAN 1 0 2002

Dear Mr. Carlson:

Subject: Amendment - Delete unsupported uses/add limitations

Endosulfan Technical

EPA Registration Number 279-2306

Your submission dated August 31, 1999 and your FAX dated October 18, 2000

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, in the endosulfan formula name add "-3-" between "benzodioxethiapin" and "oxide".
 - b. The entire Statement of Practical Treatment should be updated to comply with the FIRST AID format indicated in PR Notice 2001-1.
 - c. In the fourth sentence of the Hazards to Humans, revise "apesticide" to "a pesticide".
 - d. Revise the ENVIRONMENTAL HAZARDS text 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 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 the 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.

e. Revise the PESTICIDE STORAGE text to read as follows (retain your current "In case of spill" and "To confine spill" text):

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 the 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.

- f. Relocate the sentence "Formulators using this product are responsible for obtaining EPA registration for their formulated products." from the end of the label to appear as the first sentence after the heading Formulator Information. Please note that you may elect to delete the other 2 paragraphs since the same information is now presented in the Pesticide Storage section.
- g. Revise the first paragraph of the use limitations to read as follows:

THIS PRODUCT IS TO BE USED SOLELY FOR FORMULATION INTO enduse 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.

h. Revise the second paragraph of the use limitations to read as follows:

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 home 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 use 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).

i. To prevent anyone from concluding that the listing of acceptable uses is just a continuation of the "Do not use this product to formulate" paragraph, directly above the listing of acceptable uses add the heading:

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

- j. Revise the first use category to read OUTDOOR FRUIT AND NUT CROPS.
- k. In the OUTDOOR FRUIT AND NUT CROPS listing, delete the crop Macadamia Nuts since this only appears on a 24C label and the Task Force has decided 24C only uses will not appear on the technical labels due to their limited and changing status.
- 1. 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.
- m. Also in the OUTDOOR FRUIT AND NUT CROPS listing, since use on Strawberries is permitted both as a foliar and as a geographically limited dip application, Aventis has decided to do a double entry, so that their listing reads "Strawberries" immediately followed by "Strawberries(dip application - Northwest Use only)". The Agency assumes that you will choose to follow their label in this regard.

- n. In the FIELD AND VEGETABLE CROPS listing, delete the crop "Tea". Your cover letter indicates that this is only an import tolerance, therefore end-use products will not be formulated for this use in this country. Aventis has deleted this listing from their label for this reason. Also, Aventis lists the crop Melons as "Melons(all)". The Agency assumes that you will choose to follow their label in this regard.
- o. Replace the heading ORNAMENTAL OUTDOOR USE with ORNAMENTAL TREES AND SHRUBS (COMMERCIALLY GROWN OUTDOORS ONLY). Then delete the redundant subheading "Ornamental Trees and Shrubs" and just begin the listing.
- p. Add the listing "Shrubs" in its appropriate alphabetical location under the new heading ORNAMENTAL TREES AND SHRUBS (COMMERCIALLY GROWN OUTDOORS ONLY).
- q. Under the new heading ORNAMENTAL TREES AND SHRUBS (COMMERCIALLY GROWN OUTDOORS ONLY), expand the entry for Douglas Fir to read "Douglas Fir (grown for ornamentals, nursery stock or Christmas trees; Pacific Northwest only)".
- r. Relocate the heading COMMERCIAL GREENHOUSE USE and the associated crop Tomatoes to appear directly after the Field and Vegetable Crops listing since this is another commercial agricultural 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)

Net Weight

Code 1318 **Endosulfan Technical**

An Insecticide For Formulating Use Only

EPA Reg. No. 279-2306

EPA Est., 37404-IY-03

Active Ingredients Endosullan (Hexachlorohexahydromethano-2.4.5-benzodioxathlepin oxide)95,0%

.....5.0% 100.0%

金 DANGER-POISON 滾

Bee other panels for Additional Proceutionary Information.

Statement of Practical Treatment
If symmowed—Call a physician or Poleon Dontrol Center immediately.
Drink 1 or 2 classes of water and induse ventiling by southing the back
of the throat with linger. Repeat until yomit is clear. Do not induce
ventiling or give snything by mouth to a person who is unconscious or

to invaled—framove victim to tresh air. Apply staticial respiration if indicated, Get medical attention.

If on skin—framove contaminated clothing and week affected areas with soap and water. Get medical attention.

If his eyes—Push eyes with plenty of water. Call a physician immediately.

Note to Physician: Endoculian is a central nervous system etimulant succeeded by mouth, inhelation or through contact with skin. It may cause convulsions. There is no specific antidote. Discopant LV. to the drug of circles. Barbitatic said derivatives such as Phanebarbital may be used additionally. A neuromistorial blocking agent may be used convulsions persist. This type of drug may be used quity it complete control of respiration can be maintened. Epinephine derivatives are absolutely controlled.

For Emergency Assistance Call 1 (800) 331-5145. ACCEPTED

with COMMENTS In EPA Letter Dated: ...

JAN 1 0 2002

Under the Federal Insecticide, Fungicide, and konemicide Act, as amended, for the pesticide registered under EPA Reg. No. 279-2 306



FMC Corporation Agricultural Products Group Philadelphia PA 19103

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PRECAUTIONARY STATEMENTS Hazards to Humans (& Domestic Animals)

Danger
Patal II swallowed, initialer or absorbed through skin. Do not breathe vepors. Do not get in eyes on cidn or on stothing. During immutating and loading eperations was search particular stother an organic veporary swing survivous with a profiler respirator with cities an organic veporary swing survivous with a profiler approval or pesticides (MSHA) (Mine St. try and Heatin Administration) and NICSM (National Institute for Occut prioral Satisty and Heatin approval informations or a saniars approval for pesticides (MSHANICSH approval number profits TC-4G). West theretaily with some and water sing or smoking. What all some and water closting with spap and hot is the place lease.

ENVIRONMENTA, HAZARDS

This product is taxle to fielt birds, and other wildlife. Do not decharge affluent containing this product for directly typo lates, streetly, bands, astronomy or public we less unless this product is specifically identified and addressed in an yippies Parmit. Do not decharge affluent containing this product into severe systems without previously notifying the sowege treatment plant sufficiently. For guidance, cartest your state the experimental Protoclon Agency.

DIRECTIONS FOR USE

It is a violation of Federal | w to use this product in a manner incom-eletent with its tabeling.

STORAGE AND DISPOSAL

Perticide storage
Keep out of reach of chi iren and animete. Sione in original containers only, Store in a c ci., dry, well ventialted place and evoid excess heal. Carefully of an containers. After partial use, replace lide and close lightly Do of put concentrate or digits majorial into tood or direk containers.) o not contaminate other perticides, for discre, water, food, or fee it by storage or disposal.

in case of spill, avoid our lest, iscials erea and keep out shimals and unprotected parson. Confine spills, Call FMC collect 1-(800) 351-3148.

To confine spill if ilquid, disc surrounding area or absorb with sand, call litter or commit dat clay. If dry state fall, cover to prevent dispersal. Place dis jaged package in a holding contained identify contains.

Pesticide Disposal

Pesticide washes are ac tely hazardous, improper disposal of success periodia, spray r intere, or meste is a violation of fractural Law. If these washes annot be disposed of by use according to label instructions, our set your State Festicide or simpliconvertal Control Agency, r the Hazardous Waste Tepresentiative at the meanest ERA Region at Office for guidance.

Containing Disposal

Triple rese for equivalent triple view for respecting or reconditioning, or purcounts and dept as of in 5 senteny lendfill, or by other proceeding approved by like and loop! supporting. Do not out or weld metal containers.

Formulator information
Endosultan tachnical is stable when stored under proper well ventilisted storage conditions. The solid technical is sentitive to moletum, solid and bases. Decomposition will generate suitur decide and Endosultan

Endoculian technical chould be stored in a well-vernitated eres. All drums should be kept tightly supped. Caption should be exercised by workers ontening the storage ties since there is a possibility that suffer dioxide may be present.

CHEMICAL AND PHYSICAL DATA

American Standards Endosuttan (sn-do-sul-tan)

Common Name: 6,7,4,9,10,10-hexachiero-7,5,5a,5,9,9a-Chamical Name:

hexahydro-5,9-methano-2,4,3-benzodioxathlepin-Sayde.

NA PRODUCT MARKETING

CAB Registry

No.: Chemical Shucking: 115-29-7 ø

Technical product contains 64-89% alpha (low melting) learner and 29-52% bala (high melting)

Empiricat

Permula: Molecular

405.95

CHOLOS

Welghe Appearance:

Light to dent brown, crystalline solid in hate

Ddor:

Technical material has an oder of

hexachiorocyclopertactions and may have an SO, oder.

Density:

1.745 at 2010. (apparent density in solution in

vylene) Teghnical Melting Point:

70-100°C 106°C Pure (low malting leamer) 212°C Pure (high meling leamer)

Solubility at 25°C

<1.0 ppm Organic Selvente % WW 85 **INCOMERCIA** 50 EHAN

Telyleco 500/100 4444025 Mitten Malathian Solveano 100 郼 Kanosene Ehano

Stubfilty:

la sensitive to moisture, bases and apids. Not flammable

Finnmability: Explosive: None

Hazard:

Analytical Methods:

Analytical methods are available through PMO Corporation, Agricultural Products Group. Quality Assurance Gloup, Middleport, New York

THE PRODUCT IS TO BE USED SOLELY FOR FORMULATION INTO end-use products for use on commencial agricultural close and commencial engineering. The commencial agricultural close and commencial engineering the commencial agricultural contraction is described below.

DO NOT USE THE PRODUCT TO PORMULATE END-USE PROD-UCTS PGR: a) any use in or pround a structure used as a nestigate of domestic dwelling, of on any articles or area aesociated with such structures (including household contents, home fardens and greentouses); or b) any use in the form of a togger, duct, presented iguid or spray) inside a public building or estuding, including recreational facilities, theaters, hotels, resorts or other buildings used for public accommodation.

FRUIT AND NUT CROPS:

Almonds Apples Apricos

Neclusines Patches

Biudomiet

Peach Nursery Stock Dip

Chemes Cherry Numery Stock Dip Реал Peceru

Clinia (Ngn-Bearing Tross & Nursery Stock)

Pinstappine Plump

Pilberts 3/2000 Macadamia bioli

PINITI Nursery Stock Dip PRINE Swawberries Walnuts

MALD AND V EGETABLE CROPS:

Sade. Beans (Succellent & Dry except | Lima)

Brocod Brussels Sprovis Cabbaga

Calida Cariflower Celsty Collerda Cotton

Cucumban

Enciplanta Kala Lottupe Mustard Greens Cale Page (Sypculoni) Poppers Potalogu Pumphine

Rye Spinsen Squash (Stammer and Willer)

Świest Comi (Presh usa only) Sweet Polatoes

Tobacco Tobacco Turnip Greens Wheat

ORNAMENTA . OUTDOOR LISE:

Omumental Trees and Strube Le., Boxelder Dogwood Dougles Pir Etne I #2-

Line

Pines (Austier, Jack, Red, Scotch, White)

Shado Trees (expept Block)

Soron

COMMERCIAL: INTENHOUSE USE

Formulators using this product of responsible for obtaining RPA Regulating for their formulated products.

NOTICE

NOTICE
Seller warrants that the product in this container conforms to its chemical description configured: eleven and its reasonably it for its intended purpose when seed in a contained with proper manufacturing practices and proposelyes and any printed confidence of the Neither purposes. Appress of implied, extende to use of rearrights for a particular purpose, appress of implied, actinide to use of rearrights for a particular purpose, appress of implied, actinide to use of product or inder abnormal or purpose, the confidence of reaching practices and procedures, or under abnormal or pulphase, the manufaction or implications of the product of the product of the purpose and appreciate the first product of the purpose of the of the purpose

-FMC Trademark

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