

4787-41

10/24/2003

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



OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

OCT 24 2003

Ms. Diane Allemang
Cheminova, Inc.
600 13th St., NW
Washington, DC 20005

Dear Ms. Allemang:

Subject: Labeling Submitted in Response to the Chlorpyrifos IRED
Cyren® MUC
EPA Reg. No. 4787-37
Cyren® RT
EPA Reg. No. 4787-38
Cyren® 150 Concentrate
EPA Reg. No. 4787-39
Chlorpyrifos Technical
EPA Reg. No. 4787-40
Nufos® Technical
EPA Reg. No. 4787-41 ✓
Your Submissions Dated April 11, 2003

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided you make the following change before you release the product for shipment bearing the amended labeling:

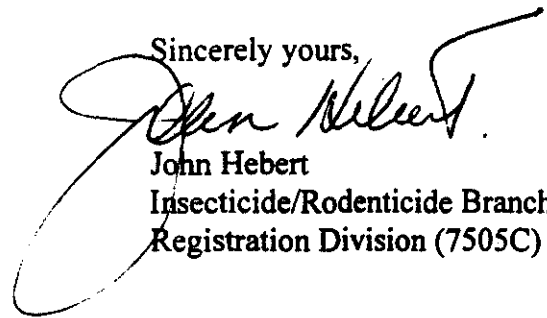
- Revise section A(ii)(a) by deleting the 2 day REI for "tree nuts and sweet potatoes." The correct REI for these crops is 24 hours. Also, add a 3 day REI for cauliflower.

Approval of this labeling amendment does not constitute approval of your application for reregistration of this product. Product reregistration is currently pending and future labeling amendments and/or additional data may be required.

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Submit two copies of your final printed labeling before you release the product for shipment. A stamped copy is enclosed for your records. If you have any questions, please contact me at (703) 308-6249 or hebert.john@epa.gov.

Sincerely yours,

A handwritten signature in black ink, appearing to read "John Hebert". The signature is fluid and cursive, with a large loop at the beginning and a long, sweeping tail that extends to the right.

John Hebert
Insecticide/Rodenticide Branch
Registration Division (7505C)

c: Venus Eagle, SRRD
Tom Myers, SRRD

Nufos® Technical

FOR MANUFACTURING USE ONLY

ACCEPTED ³⁷⁸
with COMMENTS
In EPA Letter Dated:
OCT 24 2003

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

~~4787-4~~ 97.0%
3.0%
100.0%

ACTIVE INGREDIENT:

Chlorpyrifos: O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate

INERT INGREDIENTS:

TOTAL:

©Nufos is a registered trademark of Cheminova A/S, Denmark.

BEFORE USING THIS PESTICIDE STOP - READ THE LABEL

PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMAN AND DOMESTIC ANIMALS
KEEP OUT OF REACH OF CHILDREN**

WARNING

May be fatal if swallowed, inhaled or absorbed through skin. Causes eye irritation. May cause skin irritation. Do not get in eyes, on skin or on clothing. Avoid breathing dust. Handle chemical in a ventilated area. Wear protective clothing and rubber gloves when handling. Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse. Keep away from food, feedstuffs and water supplies.

IN CASE OF AN EMERGENCY ENDANGERING HEALTH OR THE ENVIRONMENT INVOLVING THIS PRODUCT, CALL TOLL FREE, DAY OR NIGHT, 1-800-228-5635, Ext. # 153

FIRST AID

Contains an organophosphate that inhibits cholinesterase.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-228-5635, ext. # 153 for emergency medical treatment information.

NOTE TO PHYSICIAN: Chlorpyrifos is a cholinesterase inhibitor affecting the central and peripheral nervous systems and producing cardiac and respiratory depression. **Antidote:** Administer atropine sulphate in large doses. TWO to FOUR mg intravenously or intramuscularly as soon as cyanosis is overcome. Repeat at 5 to 10 minute intervals until signs of atropinization appear. 2-PAM chloride is a pharmacological antidote and may be administered as an adjunct to, but not a substitute for, atropine, which is a symptomatic and often lifesaving antidote. **DO NOT GIVE MORPHINE OR TRANQUILIZERS.** At first sign of pulmonary edema, the patient should be given supplemental oxygen and treated symptomatically. Continued absorption of **chlorpyrifos** may occur and relapse may occur after initial improvement. **VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS.**

EPA Reg. No.: 4787-41

EPA Est. No.: 39578-TX-1

CHEMINOVA A/S Lemvig, Denmark
Phone (+45) 96 90 96 90 Fax (+45) 96 90 96 91

Net Contents: 625 lbs.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds and wildlife, and extremely toxic to fish and aquatic organisms. Do not discharge effluent containing this product 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 to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. The June 7, 2000 memorandum of agreement between EPA and registrants of pesticide products containing chlorpyrifos only applies to registered uses of chlorpyrifos in the US.

For Manufacturing Use Only

Manufacturing-Use Product Labeling Requirements

After October 1, 2000, any manufacturing-use product formulated from this product must bear EPA-approved labeling that is consistent with the terms of the June 7, 2000, memorandum of agreement between EPA and registrants of pesticide products containing chlorpyrifos.

Only for formulation into an *insecticide* for the following use(s). Text in square brackets (e.g. [Indoor Food]) after each site category heading refers to the general use group as referenced in 40 CFR 158.

Agricultural Uses

Agricultural Crops [Terrestrial Food Crop, Greenhouse Food Crop]:

Alfalfa; apple (post-bloom application prohibited); asparagus; banana; bean (snap, lima), beet (sugar, table, including crops grown for seed); blueberry; *Brassica* (cole) leafy vegetables (bok choy, broccoli, broccoli raab, Brussels sprouts, cabbage, Chinese cabbage, cauliflower, collards, kale, kohlrabi); caneberry; cherimoya; cherry (sour, sweet); citrus (lemon, orange, grapefruit, and citrus, other); citrus orchard floor, corn (field, sweet, including crops grown for seed); cotton; cranberry; cucumber; date; feijoa; fig; grape; kiwifruit; leek; legume vegetables; mint; nectarine; onion (dry bulb); pea, peach; peanuts; pear; pepper; plum; prune; pumpkin; radish (including crops grown for seed); rutabaga; sapote; seed and pod vegetables; sorghum (grain, milo); soybean, strawberry; sugarcane; sunflower; sweet potato; tobacco; tree nuts (almonds, filberts, pecans, walnuts, other); turnip; wheat; and seed treatment; in addition, this product may be used to formulate products for any additional crop uses not listed on this label if the formulator, user group, or grower has complied with US EPA data submission requirements regarding the support of such uses.

Livestock [Indoor Food]:

Cattle ear tags, non-residential animal housing including but not limited to poultry houses, feedlots, corrals, stockyards, holding pens, and other outdoor livestock holding areas.

Ornamentals - Commercial Production Only [Commercial Terrestrial Non-Food, Commercial Greenhouse Non-Food]:

Greenhouse, outdoor (excluding any residential outdoor use), field grown and nursery grown ornamentals (including, but not limited to flowers, shrubs, evergreens, vines, shade and flowering trees, and non-bearing fruit, nut, and citrus trees); Christmas tree plantations, nurseries, forest tree nurseries, sod farms, perennial grass seed crops, soil treatment of potted, containerized or balled and burlapped nursery stock plants in nurseries and greenhouses only; annual and perennial plants.

Forest Trees [Forestry]:

Plantations, forests, seed orchards, felled trees, and cut stumps.

If the product is labeled for reformulation into products bearing labeling for agricultural uses, the label may not contain instructions permitting formulation into products registered for tomatoes. In addition, the label must contain the following statements:

Use of this product for formulation into any end-use product bearing instructions for use on apple trees is prohibited unless the end-use product bears EPA-approved labeling prohibiting post-bloom application to apple trees.

This product may only be formulated for the agricultural uses listed below if the EPA-approved labeling of the formulated product bears revised worker reentry intervals (REIs) of a duration no less than the following:

- For all crops: 24 hours, unless specifically noted as otherwise below
- Tree nuts and sweet potatoes: 2 days
- Fruit trees: 4 days
- Citrus trees: 5 days

The end-use product labeling may include the following statement: 'Certified crop advisors or persons entering under their direct supervision under certain circumstances may be exempt from the early reentry requirement pursuant to 40 CFR Part 170.'

Any emulsifiable concentrate (EC) end-use product formulated from the product must be labeled as a restricted use product. All other end-use products formulated from the product must either be labeled as restricted use or packaged in containers no smaller than 15 gallons of a liquid formulation, 50 pounds of a granular formulation, or 25 pounds of any other dry formulation.

Non-agricultural, Non-termite Control Uses

Turf [Terrestrial Non-Food]:

Golf course turf, turf in road medians, and turf in industrial plant sites (provided the use rate is no greater than 1 lb. ai/acre).

Pest Control Indoors [Indoor Residential]:

Containerized baits in child-resistant packaging for indoor residential uses.

Pest Control Indoors [Indoor Non-Residential]:

Crack, crevice, and spot treatments in food and non-food areas of non-residential buildings and structures including warehouses, ship holds, railroad boxcars, industrial plants, manufacturing plants, food processing plants such as bakeries (not in food service establishments), bottling facilities, breweries, food manufacturing plants, granaries, grain mills, and wineries; or containerized baits in child-resistant packaging.

Pest Control Outdoors [Terrestrial Non-Food, Domestic Outdoor]:

Public health uses to control fire ant mounds. Public health uses as a mosquito adulticide; mosquito control may only be applied by trained personnel of public health organizations, mosquito abatement districts, public mosquito control programs, and professional pest control operators.

Pest Control Outdoors [Terrestrial Non-Food]:

Underground utility cables and conduits in non-residential sites; turf and ornamentals in road medians; turf and ornamentals in industrial plant sites (provided the use rate is no greater than 1 lb. ai/acre).

Non-Residential Outdoor Control of Wood Infesting Insects [Terrestrial Non-Food]:

Fence posts, utility poles, railroad ties, landscape timbers, logs, pallets, wooden containers, poles, posts, and processed wood products.

If the product is labeled for reformulation into products bearing labeling for non-agricultural uses (other than termite control), the label must contain the following statements:

After December 1, 2000, this product may only be used to formulate an end-use pesticide product labeled for non-agricultural, non-termite control uses in accordance with the following conditions:

Any emulsifiable concentrate (EC) end-use product formulated from this product must be labeled as a restricted use product. All other end-use products formulated from the product (other than containerized baits in child-resistant packaging) must either be labeled as restricted use or packaged in containers no smaller than 15 gallons of a liquid formulation or 25 pounds of a dry formulation.

The end-use product may not bear use directions for any indoor residential use (as that term is defined in 40 CFR 152.3) other than containerized baits in child-resistant packaging.

Any emulsifiable concentrate (EC) end-use product formulated from this product may not bear use directions for any indoor non-residential use. All other end-use products may not bear use directions for any indoor non-residential use other than one or more of the following uses: warehouses, ship holds, railroad boxcars, industrial plants, manufacturing plants, food processing plants, or containerized baits in child-resistant packaging.

The end-use product may not bear use directions for any residential outdoor use other than one or more of the following public health uses: individual fire ant mound treatment or mosquito adulticide use.

The end-use product may not bear use instructions for any non-residential outdoor use other than one or more of the following uses:

- * golf courses, road medians, and industrial plant sites, provided that the maximum label application rate is no greater than 1 lb. ai/acre;
- * mosquito adulticide use for public health purposes;
- * individual fire ant mound treatment for public health purposes; and
- * fence posts, utility poles, railroad ties, landscape timbers, logs, pallets, wooden containers, poles, posts and processed wood products.

Termite Control Uses

Wood or Wood Structure Protection Treatments [Terrestrial Non-Food]:

Spot and localized termiticide treatments.

If the product is labeled for reformulation into products labeled for termite control, the label must contain the following statements:

After December 1, 2000, this product may only be used to formulate an end-use pesticide product labeled for termite control in accordance with the following conditions:

This product may not be used after December 31, 2004, to formulate any product labeled for termite control, unless prior to that date, EPA has made a written determination that pre-construction termite control use may continue.

Any end-use product formulated from this product must bear EPA-approved labeling that (a) does not include use instructions for any post-construction applications other than spot and local treatment; and (b) states this product may only be used for spot and local treatment until December 31, 2002.

Any end-use product formulated from this product must bear EPA-approved labeling with a maximum chlorpyrifos end-use dilution of 0.5% active ingredient.

Any emulsifiable concentrate (EC) end-use product formulated from this product (other than containerized baits in child-resistant packaging) must be labeled as a restricted use product. All other end-use products formulated from the product must either be labeled as restricted use or packaged in containers no smaller than 15 gallons of a liquid formulation or 25 pounds of a dry formulation.

Other Uses

This product may be used to formulate products for specific use(s) not listed on the MP label if the formulator, user group, or grower has complied with U.S. EPA submission requirements regarding support of such use(s).

Experimental Uses

This product may be formulated into insecticide products for uses for experimental purposes that are in compliance with US EPA requirements.

Other Prohibited Uses

All manufacturing-use and end-use products produced from this product must bear the following statement:

This product may NOT be used for formulation into manufacturing-use or end-use products for the following uses:

Aquatic Uses [Aquatic Food Crop, Aquatic Non-Food]: Any aquatic use, including mosquito larvicide.

Important Note:

Because of their properties and intended uses, insecticidal formulations containing this product will require precautionary labeling differing from that given. Formulators should develop their own use and precautionary labeling based on the properties and intended uses of their own finished formulations, and are responsible for obtaining EPA registration of these products.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Storage: Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 100°F (38°C) for extended periods of time. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site, if approved waste handling facilities are available, or at an approved waste disposal facility.

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.

WARRANTY LIMITATIONS AND DISCLAIMER

CHEMINOVA warrants that the material contained herein conforms to the chemical description on the label, that it will pass without objection in the trade under the contract description, and that such product will be delivered free from any lawful security interest, lien, or encumbrance. CHEMINOVA MAKES NO OTHER EXPRESS WARRANTIES OF ANY KIND AND DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. NO ORAL OR WRITTEN INFORMATION OR ADVICE GIVEN BY CHEMINOVA, ITS DISTRIBUTORS, AGENTS, OR EMPLOYEES SHALL CREATE A WARRANTY OR IN ANY WAY INCREASE THE SCOPE OF THIS WARRANTY, AND THE BUYER MAY NOT RELY ON SUCH INFORMATION OR ADVICE.

Manufacturing Chemical: Do not ship or store with food, feeds, drugs or clothing.