

4787-41

11/07/2000

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505C)  
401 M St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:  
4787-41

Date of  
11/07/00

NOTICE OF PESTICIDE:  
 Registration,  Reregistration  
(under FIFRA, as amended)

Term of issuance: Conditional

Name of Pesticide Product:  
Nufos Technical

Name and Address of Registrant (include ZIP Code):  
Cheminova A/S Lemvig, Denmark  
represented by Cheminova, Inc  
Oak Hill Park  
1700 Route 23, Suite 3000  
Wayne, NJ 07470

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the following label changes before you release the product for shipment:
  - A. Revise the EPA Registration Number to read, "EPA Reg. No. 4787-41".
3. Submit three copies of the final printed label for the record before you release the product for shipment.

As requested in your letter of July 5, 2000, the conditions of paragraph 10 of the June 2000 Memorandum of Agreement between the Environmental Protection Agency and the signatory registrants regarding the registration of the pesticide products containing Chlorpyrifos are accepted by the Agency as conditions of the subject registration.

Failure to comply with any of the conditions of registration set forth in Paragraph 10 the MOA shall be grounds for cancellation of the affected registration(s) under FIFRA section 6(e).

If the conditions enumerated above 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 copy of the label stamped "accepted with comments" is enclosed for your records.

Signature of Approving Official:  
Akiva Abramovitch, Ph.D. *Akiva Abramovitch*  
Chemist  
Insecticide-Rodenticide Branch  
Registration Division (7505C)

Date: November 07, 2000

# Nufos® Technical

FOR MANUFACTURING USE ONLY

**ACTIVE INGREDIENT:**

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

97.0%

**INERT INGREDIENTS:**

3.0%

**TOTAL:**

100.0%

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

**ACCEPTED**  
**with COMMENTS**  
**In EPA Letter Dated:**

NOV 7 2000

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.  
4787-41

**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

- IF SWALLOWED** Call a physician or Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not give anything by mouth to an unconscious person.
- IF ON SKIN** Immediately wash with plenty of soap and water. Get medical attention.
- IF IN EYES** Flush with plenty of water for 5 minutes. Get medical attention if irritation persists.
- IF INHALED** Remove to fresh air if symptoms of cholinesterase inhibition appear and get medical attention immediately.

**NOTE TO PHYSICIAN:** Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration.



CHEMINOVA A/S • Lemvig • Denmark  
Phone (+45) 97 83 41 00 • Telex 66514 • Fax (+45) 97 83 45 55

Net Contents:

**ENVIRONMENTAL HAZARDS**

This pesticide is extremely toxic to fish and wildlife. 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.

This product may ONLY be formulated into manufacturing-use insecticide products or end-use insecticide products for the following uses. 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 per 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 formulated into insecticide products for other uses for which the US EPA has accepted the required data and/or citations of data that the formulator has submitted in support of registration excluding any use strictly prohibited by this label.

**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.**

Label Code: TBD: Revised draft submitted 10/3/00. Draft submitted to EPA 8/11/00