

4787-41

6/27/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON D C 20460



OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION


June 27 2012

Ms Carrie M Tackema  
Cheminova Inc  
One Park Drive Suite 150  
Research Triangle Park NC 27709

Subject Amended labeling to clarify directions for use in nurseries  
NUFOS Technical  
EPA Reg No 4787 41  
EPA Decision No 465834

Dear Ms Tackema

The proposed labeling referred to above submitted in connection with registration under the Federal Insecticide Fungicide and Rodenticide Act is acceptable Please submit one copy of your final printed labeling before you release the product for shipment Your release for shipment of the product constitutes acceptance of these conditions If these conditions are not complied with the registration will be subject to cancellation in accordance with FIFRA section 6(e) If you have any questions please contact Julie Chao by phone at (703) 308 8735 or by email at [chao.julie@epa.gov](mailto:chao.julie@epa.gov)

Regards  
  
Venus Eagle Product Manager (01)  
Insecticide Rodenticide Branch  
Registration Division (7505P)

Enclosure

# NUFOS Technical

AN INSECTICIDE 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%

This product contains 11 84 pounds of chlorpyrifos per gallon

**BEFORE USING THIS PESTICIDE  
STOP READ THE LABEL**

**KEEP OUT OF REACH OF CHILDREN**

**WARNING AVISO**

AL USUARIO Si usted no lee ingles no use este producto hasta que la etiqueta le haya sido explicada ampliamente (TO THE USER If you cannot read English do not use this product until the label has been fully explained to you )

IN CASE OF AN EMERGENCY ENDANGERING LIFE OR PROPERTY INVOLVING THIS PRODUCT CALL TOLL FREE DAY OR NIGHT 1 866 303 6950

**SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS**

**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 a poison control center or doctor Do not give anything by mouth to an unconscious person

**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 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 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 label or container with you when calling a poison control center or doctor or going for treatment You may also contact 1 866 303 6950 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 4ACCEPTED Product of Denmark

EPA Est No 4787 DNK 1

JUN 27 2012

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under

Net Contents 288 Kilos (635 lbs)

EPA Reg No 4787-41

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMAN AND DOMESTIC ANIMALS**  
**HANDLE CHEMICAL IN A VENTILATED AREA**  
**KEEP OUT OF REACH OF CHILDREN**

**WARNING AVISO**

May be fatal if swallowed Harmful if absorbed through skin Causes moderate eye irritation  
 Avoid contact with skin eyes or clothing Wash thoroughly with soap and water after  
 handling and before eating drinking chewing gum using tobacco or using the toilet

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to birds and wildlife and extremely toxic to fish aquatic organisms and bees  
 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 U S

**FOR MANUFACTURING USE ONLY**

Chlorpyrifos Technical II may be used only for formulation into other manufacturing use products or end  
 use products for uses accepted by the United States Environmental Protection Agency Because of  
 their properties and intended uses insecticidal formulations containing Chlorpyrifos Technical II will  
 require precautionary labeling different from that given Formulators should develop their own use and  
 precautionary labeling based on the properties and intended use of their own finished formulations and  
 are responsible for obtaining EPA registrations of these products

**FOR FORMULATION ONLY INTO END USE PRODUCTS**

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 (REI)s of a duration no less than the  
 following

For all crops 24 hours unless specifically noted otherwise below

Cauliflower 3 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*

**Agricultural Uses**

**Agricultural Crops [Terrestrial Food Crop Greenhouse Food Crop]** Alfalfa Asparagus Christmas  
 Tree Plantations Citrus Fruits Corn (field sweet and seed corn [maximum of 3 lb ai/acre/season no  
 application to popcorn]) Cotton Cranberries Figs Grapes mint Onions (dry bulb) Peanuts  
 Sorghum Soybeans Sunflowers Sugar Beets Strawberries Sweet Potatoes Tobacco Tree Fruit

(apples [Post bloom application prohibited Only one pre bloom application of any chlorpyrifos containing product can be made per year to the lower 4 feet of the trunk] pears cherries plums/prunes peaches and nectarines) Tree Nuts (almonds filberts pecans and walnuts) Vegetables (cauliflower broccoli Brussels sprouts cabbage collards kale kohlrabi turnips radishes and rutabagas) and Wheat

**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 sod farms perennial grass seed crops soil treatment of potted containerized or balled and burlapped stock plants in greenhouses only annual and perennial plants

End use products containing directions for use in nursery operations must be restricted to wholesale nursery operations only Wholesale nursery operations are commercial agricultural operations which do not sell or distribute directly to consumers or the general public through retail sales The end use products must also contain a prohibition against selling or distributed treated plants directly to consumers or the general public through retail sales

**Forest Trees [Forestry]** Plantations forests seed orchards felled trees and cut stumps

**Non Agricultural Uses**

Non residential outdoor pest control (golf courses road medians and industrial plant sites) and Non residential ornamentals (flowers shrubs vines shade & flowering trees and evergreens) road medians and industrial plant sites

**Other Uses**

This product may be formulated into insecticide products for other uses for which the U S 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 U S EPA requirements

**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*

**Termiticide Uses**

ANY USE TO FORMULATE MANUFACTURING USE OR END USE PRODUCTS INTENDED FOR POST BLOOM SPRAY ON APPLES TOMATOES INDOOR GREENHOUSE PAINT ADDITIVES PET CARE ANIMAL HEALTH OR FOR MOSQUITO CONTROL IS STRICTLY PROHIBITED

ALL MANUFACTURING USE PRODUCTS PRODUCED FROM THIS PRODUCT MUST BEAR A STATEMENT PROHIBITING FORMULATION OF SUCH PRODUCTS FOR USES OTHER THAN IDENTIFIED ABOVE

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 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 must either be labeled as restricted use or packaged in containers no smaller than 15 gallons of a liquid formulation or 25 pounds of dry formulation

The product may not bear use directions for any residential outdoor use

The 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

#### **STORAGE AND DISPOSAL**

Do not contaminate water food or feed by storage or disposal

**Pesticide 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** Pesticide wastes are toxic 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 Handling**

Nonrefillable container Do not reuse or refill this container Offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration or by other procedures allowed by state and local authorities Triple rinse as follows Empty the remaining contents into application equipment or a mix tank Fill the container ¼ full with water Replace and tighten closures Tip container on its side and roll back and forth ensuring at least one complete revolution for 30 seconds Stand the container on its end and tip it back and forth several times Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal Repeat this procedure two more times

#### **WARRANTY DISCLAIMER**

Cheminova warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions subject to the inherent risks set forth below TO THE EXTENT CONSISTENT WITH APPLICABLE LAW CHEMINOVA MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY

#### **INHERENT RISKS OF USE**

It is impossible to eliminate all risks associated with use of this product Unintended consequences may result because of factors such as use of the product contrary to label instructions which are beyond the control of Cheminova or the Seller Cheminova and the Seller shall not be responsible for any risks caused by the incorporation of this product into an end use product by the Buyer or User Buyer is solely responsible for any risks created by the end use or uses to which Buyer or a User put this product All of the foregoing risks shall be assumed by Buyer and User and Buyer and User agree to hold Cheminova and Seller harmless for any claims related to such factors

### LIMITATION OF REMEDIES

To the extent consistent with applicable law the exclusive remedy for losses or damages resulting from this product (including claims based on contract negligence strict liability or other legal theories) shall be limited to one of the following at Cheminova's election

- (1) Refund of purchase price paid by buyer or user for product bought or
- (2) Replacement of amount of product used

To the extent consistent with applicable law Cheminova shall not be liable for consequential incidental or special damages or losses

The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements No employee or sales agent of Cheminova or the Seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner



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