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



OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

December 7, 2000

Ms. Anne Stout Makhteshim-Agan of North America Inc. 551 Fifth Avenue, Suite 1100 New York, NY 10176

Subject: Pyrinex 4EC (Chlorpyrifos 44.9% EUP)

EPA Reg. No. 66222-3

Submission dated November 10, 2000

Dear Ms. Stout:

The label referred to above, submitted in connection with the Chlorpyrifos Memorandum of Agreement (MOA), is acceptable, provided you make the labeling change indicated before you release the product for shipment bearing the approved labeling:

> 1) On page 1, after "Protective eyewear" add the following "(goggles, face shield, or safety glasses with front, brow and temple protection)".

If you have questions, please contact Ann Hanger at (703) 308-8036 or electronically at Hanger.Ann@EPA.gov.

Sincerely,

Dennis McNeilly, Chemist

Insecticide-Rodenticide Branch

Registration Division (7505C)

## RESTRICTED USE PESTICIDE

FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATORS CERTIFICATION.

# PYRINEX™ 4EC

ACTIVE INGREDIENT:	•	BY WT.
Chlorpyrifos: 0,0-diethyl 0-(3,5,6-trichloro-2-pyridyl) phosphorothioate	************	44.9%
INERT INGREDIENTS: (Contains xylene range aromatic solvent)		
		100.0%

Contains 4.0 pounds active ingredient per gallon.

## KEEP OUT OF REACH OF CHILDREN

## **WARNING-AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

## STATEMENT OF PRACTICAL TREATMENT **ORGANOPHOSPHATE**

IF SWALLOWED: Call a physician or Poison Control Center immediately. Do not induce vomiting. Contains an aromatic petroleum solvent. 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 irritation persists.

IF IN EYES: Immediately flush with plenty of water. Get medical attention of irritation persists.

IF INHALED: Remove victim to fresh air. If symptoms of cholinesterase inhibition appear (i.e., HEADACHE, DIZZINESS, WEAKNESS, INCOORDINATION, MUSCLE TWITCHING, TREMOR, NAUSEA, ABDOMINAL CRAMPS, DIARRHEA, OR SWEATING) 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.

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING

May be fatal if swallowed. May cause eye and skin irritation. Harmful if inhaled or if absorbed through the skin Avoid contact with eyes, skin, or clothing. Avoid breathing vapors or spray mist. Handle concentrate in a vehicle area.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more prior instructions for category G on an EPA chemical resistance category selection chart. Applicators and other handlers must wear:

- Long sleeved shirt and pants
- Chemical-resistant gloves such as barrier laminate or Viton (> 14 mils)
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant apron when cleaning equipment, mixing, or loading
- For exposures in enclosed areas, a 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), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter.
- For exposure outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), ópa NIOSH approved respirator with any R, P, or HE filter.

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NET CONTENTS _	GALLON(S)	,,,,	

Makhteshim-Agan of North America, Inc. 551 Fifth Avenue: Suite 1100 New York, NY 10176

EPA Reg. No. 66222-3 EPA Est. No. 11678-IS-1 Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENT: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

## **USER SAFETY RECOMMENDATIONS**

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- · Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon
  as possible, wash thoroughly and change into clean clothing.

### PHYSICAL AND CHEMICAL HAZARDS

COMBUSTIBLE. Do not store or use near heat or open flame.

#### **ENVIRONMENTAL HAZARDS**

This pesticide is toxic to birds and wildlife, and extremely toxic to fish and aquatic organisms. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Cover or incorporate spills. Do not contaminate water by disposal of equipment washwaters.

#### **DIRECTIONS FOR USE**

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Do not apply this product through any type of irrigation system.

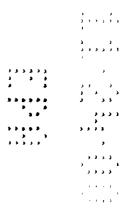
Do not formulate this product into other end-use products.

Attention: Keep out of fish pools and other bodies of water. Do not treat vegetable gardens. Do not allow livestock to graze in treated areas. Do not feed treated grass cuttings (hay) or seed screenings to livestock nor use hay for livestock bedding.

For golf course turf, road medians, and industrial plant sites: Do not allow public use of treated areas during application or until spray has dried.

## FOR GOLF COURSE TURF, ROAD MEDIANS, AND INDUSTRIAL PLANT SITES ONLY

Use PYRINEX 4EC to control the pests listed in the following table by applying at the recommended dosages and in accordance with the directions given below. Dilute PYRINEX 4EC in water and apply as a coarse, low-pressure spray using suitable application equipment. Thoroughly water immediately after treatment to wash the insecticide into the turf, except as noted. For best results, the area to be treated should be moist at time of treatment. Spray when pests first appear; retreat as needed.



· PESTS'	AMOUNT OF PYR	AMOUNT OF PYRINEX 4EC PER:	
	1000 sq.ft.	acre	
Ants (including foraging fireants), Armyworms (such as Beet, Fall, Yellowstriped), Centipedes, Chiggers (1), Chinch bugs, Crickets, Cutworms, Earwigs, Fiery Skipper, Fireants (mounds)(2), Fleas, Gnats, Grasshoppers, Greenbugs, June beetles, Leafhoppers, Lucerne moths, Millipedes, Mites (such as Clover, Formula grass, Winter grain), Sod webworms (lawn moth)(3), Springtails, Sowbugs, Ticks (1)	% fl. oz.	1 qt.	
SPECIFIC DIRECTIONS			
<ol> <li>Use PYRINEX 4EC insecticide for area control of labeled pests where these or a possible public health problem. Apply PYRINEX 4EC in water at the ra oz per 2,700 sq. ft.) using a hydraulic sprayer, mist applicator, knapsack sp operated spray equipment, Treat low underbrush, grassy areas, weeds, and spray volume to obtain thorough coverage, usually 40 to 100 gallons per ac</li> <li>For individual fireant mounds, apply PYRINEX 4EC as a drench, diluted at to of water. Gently sprinkle a total of 1 gallon of the diluted emulsion over the spray (such as a sprinkler can). Thoroughly wet mound and surrounding area results, apply in cool weather, 65-80°F or in early morning or late evening he Pressurized sprays may disturb the ants and cause migration, reducing prod 3. For sod webworms, delay watering and mowing the treated area for 12 to 2</li> </ol>	te of ½ pint per acre ( rayer, or other suitable ground surface and de- tre. the rate of 1 fl. oz. (30 e surface of each mou- as to a 4 ft. diameter (1 ours. Treat new mound duct effectiveness.	equivalent to ½ file hand- or power bris using enough ml) per 4 gallons and using a gentle 2 sq. ft.). For besids as they appear	
European crane fly	1 fl. oz.	1 qt.	
Turfgrass weevil (Hyperodes)(1)	1 ½ fl. oz.	1 qt.	
SPECIFIC DIRECTIONS			
<ol> <li>Spray suspected problem areas in mid-April and again in mid-May or as re Extension Service specialist.</li> </ol>	ecommended by your	local Agricultura	
White grubs (such as Black turfgrass ataenius, European chafer, Southern masked chafer, and Japanese beetle larvae) (1)	1 1/2 to 3 fl. oz.	1 qt.	
SPECIFIC DIRECTIONS			
<ol> <li>For white grubs, spray when grubs are young and actively feeding near the August or as recommended by your local Agricultural Extension Service spec</li> </ol>			

\*Numbers in parentheses refer to SPECIFIC DIRECTIONS.

Bluegrass billbugs (1)

SPECIFIC DIRECTIONS

The maximum application rate for all uses listed above is 1 lb. active ingredient (1 qt. of formulated product) per acre.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

the treated area with 1/2 to 1 inch of water to wash the insecticide into the underlying soil.

For bluegrass billbugs, spray early in the season when adults first appear. Retreat as needed.

PESTICIDE STORAGE: Avoid storage at high temperatures. Protect from moisture. Avoid contamination with water, acids, or alkalies. Do not store near heat or open flame. Keep container closed. Store in original container in a locked storage area.

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 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. Or, Triple rinse (or equivalent). Then puncture and dispose in a sanitary landfill, or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### **WARRANTY STATEMENT**

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, express of implied, extends to the use of this product contrary to label instruction or under abnormal conditions or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

Pyrinex™ is a trademark of Malchteshim-Agan.

Pyrinex 4EC (66222-03)(EPA app 10-30-00)

34 to 3 fl. oz.

1 qt.

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