

66222-3

12/07/2000

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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

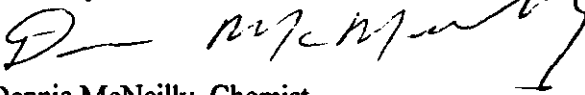
Dear Ms. Stout:

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](mailto: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

|  |                     |
|--|---------------------|
| <b>ACTIVE INGREDIENT:</b>  | <b>% BY WT.</b>     |
| Chlorpyrifos: 0,0-diethyl 0-(3,5,6-trichloro-2-pyridyl) phosphorothioate ..... | 44.9%               |
| <b>INERT INGREDIENTS:</b> (Contains xylene range aromatic solvent) .....       | 55.1%               |
|  | <b>TOTAL 100.0%</b> |

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 if 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 well-ventilated area.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more 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), or a NIOSH approved respirator with any R, P, or HE filter.

**NET CONTENTS \_\_\_\_\_ GALLON(S)**

EPA Reg. No. 66222-3  
EPA Est. No. 11678-IS-1

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

ACCEPTED  
 with COMMENTS  
 In EPA Letter Dated:  
 DEC 7 2000  
 Under the Federal Insecticide,  
 Fungicide, and Rodenticide Act,  
 amended, for the pesticide  
 registered under EPA Reg. No.

66222-3



| PESTS*   | 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, Flery 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)   | ¾ fl. oz.                  | 1 qt. |
| <b>SPECIFIC DIRECTIONS</b>   |                            |       |
| <ol style="list-style-type: none"> <li>Use PYRINEX 4EC insecticide for area control of labeled pests where these pests are present and create a nuisance or a possible public health problem. Apply PYRINEX 4EC in water at the rate of ½ pint per acre (equivalent to ½ fl. oz per 2,700 sq. ft.) using a hydraulic sprayer, mist applicator, knapsack sprayer, or other suitable hand- or power-operated spray equipment, Treat low underbrush, grassy areas, weeds, and ground surface and debris using enough spray volume to obtain thorough coverage, usually 40 to 100 gallons per acre.</li> <li>For individual fireant mounds, apply PYRINEX 4EC as a drench, diluted at the rate of 1 fl. oz. (30 ml) per 4 gallons of water. Gently sprinkle a total of 1 gallon of the diluted emulsion over the surface of each mound using a gentle spray (such as a sprinkler can). Thoroughly wet mound and surrounding areas to a 4 ft. diameter (12 sq. ft.). For best results, apply in cool weather, 65-80°F or in early morning or late evening hours. Treat new mounds as they appear. Pressurized sprays may disturb the ants and cause migration, reducing product effectiveness.</li> <li>For sod webworms, delay watering and mowing the treated area for 12 to 24 hours after treatment.</li> </ol> |                            |       |
| European crane fly   | 1 fl. oz.                  | 1 qt. |
| Turfgrass weevil ( <i>Hyperodes</i> )(1)   | 1 ½ fl. oz.                | 1 qt. |
| <b>SPECIFIC DIRECTIONS</b>   |                            |       |
| <ol style="list-style-type: none"> <li>Spray suspected problem areas in mid-April and again in mid-May or as recommended by your local Agricultural Extension Service specialist.</li> </ol>   |                            |       |
| White grubs (such as Black turfgrass ataenius, European chafer, Southern masked chafer, and Japanese beetle larvae) (1)  | 1 ½ to 3 fl. oz.           | 1 qt. |
| <b>SPECIFIC DIRECTIONS</b>   |                            |       |
| <ol style="list-style-type: none"> <li>For white grubs, spray when grubs are young and actively feeding near the soil surface, usually during late July and August or as recommended by your local Agricultural Extension Service specialist. Immediately after spraying, irrigate the treated area with ½ to 1 inch of water to wash the insecticide into the underlying soil.</li> </ol>   |                            |       |
| Bluegrass billbugs (1)   | ¾ to 3 fl. oz.             | 1 qt. |
| <b>SPECIFIC DIRECTIONS</b>   |                            |       |
| <ol style="list-style-type: none"> <li>For bluegrass billbugs, spray early in the season when adults first appear. Retreat as needed.</li> </ol>   |                            |       |

\*Numbers in parentheses refer to 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.

**PESTICIDE STORAGE:** Avoid storage at high temperatures. Protect from moisture. Avoid contamination with water, acids, or alkalis. 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 or 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 Makhteshim-Agan.

Pyrinex 4EC (65222-03)(EPA app 10-30-00)