

Reg # 5549-49

PM-14

19/7
file



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

APR 20 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

James M. Pearce
COASTAL CHEMICAL CORPORATION
P.O. BOX 856
GREENSVILLE, NC 27834

Subject: Label Amendment Submission of 02/14/93 in Response to PR Notice 93-7
EPA Reg. No. 5549-49
CYTHION 5-EC INSECTICIDE THE PREMIUM GRADE MALATHION

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.

BEST AVAILABLE COPY



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

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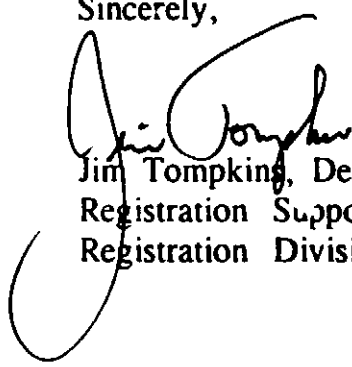
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

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CYTHION 5-EC

INSECTICIDE

THE PREMIUM GRADE MALATHION

ACTIVE INGREDIENT:

Malathion* 57.0%

INERT INGREDIENTS:

Aromatic Hydrocarbons..... 38.3%

Surfactant Blend..... 4.7%

TOTAL:

100.0%

*O,O-dimethyl phosphorodithioate of diethyl mercaptosuccinate
(Contains 5 lbs. Malathion 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.)

FLAMMABLE LIQUID AND VAPOR

HARMFUL IF SWALLOWED

Keep away from heat, sparks, and flame. Keep container closed. Use with adequate ventilation and avoid breathing spray mist. Avoid contact with skin. Wash thoroughly after handling. Do not contaminate food or feed products. Keep out of reach of children.

See Side Panel for Additional Precautionary Statements

ADVERTENCIA

~~AL USUARIO: Si usted no ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.~~

ENGLISH TRANSLATION

WARNING

~~(TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)~~

CYTHION® is a Registered Trademark of American Cyanamid Company

NET CONTENTS: 1 Gallon

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EPA REG. NO. 5549-49

EPA EST. NO. 5549-NC-1

Manufactured by
COASTAL CHEMICAL CORPORATION
Greenville, N.C.

ACCEPTED
with COMMENTS
in EPA Letter Dated

APR 20 1994



Under the Federal Insecticide, Fungicide, and Rodenticide Act
I recommend, for the pesticide
registered under EPA Reg. No.
5549-49

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**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
WARNING**

Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing spray mist. Causes eye irritation. Do not get in eyes, on skin, or clothing. Wash skin thoroughly after handling. ~~Remove and wash contaminated clothing before reuse.~~ Use only with adequate ventilation. After using this product indoors, ventilate thoroughly before occupying enclosed spaces. ~~Do not allow contact with treated surface until sprays have dried.~~

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category F on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as Barrier Laminate or Butyl Rubber or Nitrile Rubber or Viton
- Shoes plus socks

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.

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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, and aquatic life stages of amphibians. Do not apply directly to water or wetlands (i.e., swamps, bogs, marshes, and potholes). Drift and runoff may be hazardous to aquatic organisms in areas near the application site. Do not contaminate water when disposing of equipment washwaters. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat and open flame.

STATEMENT OF PRACTICAL TREATMENT

Organophosphate

If swallowed, do not induce vomiting. Get medical attention! In case of contact: Immediately flush eyes and skin with plenty of water for at least 15 minutes ~~while removing contaminated clothing and shoes.~~ Call a physician. Wash clothing before reuse. If inhaled: Remove victim to fresh air. Get medical attention.

Note to Physician: This product may cause cholinesterase inhibition. Atropine is antidotal. 2-PAM may be effective as an adjunct to atropine.

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DIRECTIONS FOR USE

MISUSE STATEMENT

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

~~Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.~~ Do not apply this product through any type of irrigation system.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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.

DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves such as Barrier Laminate or Butyl Rubber or Nitrile Rubber or Viton
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

~~Do not allow contact with treated surface until sprays have dried.~~

~~Wash skin thoroughly after handling.~~

REENTRY STATEMENT

~~Do not allow entry into treated area until spray has settled, unless full protective clothing is worn. Applies to foliar applications to agricultural crops. Does not apply to use on livestock.~~

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Do not store in extreme heat or near open flame. If damaged or leaking, soak up with absorbent and shovel into waste container. Transfer remaining product to suitable container for storage and properly label.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

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Stored Grains: For the protection of stored grains, such as wheat, oats, rice, rye, barley, grain sorghum, and field or garden seeds, against confused flour beetle, rice weevil, granary weevil, saw-toothed grain beetle, red flour beetle, rusty grain beetle, lesser grain borer, Indian meal moth, and for control of cereal leaf beetle, apply **CYTHON 5-EC** emulsifiable liquid as follows

RESIDUAL SPRAY: Before Storing Grains: For a residual wall, floor, and machinery spray in grain elevators, in treating truck beds, box cars, and ship's holds before loading grain, apply 1 gallon of **CYTHON 5-EC** per 25 gallons of water making thorough application. Before applying spray, clean elevators, box cars, etc., thoroughly. Remove and burn all sweeping and debris.

Grains going into storage: Apply 1 pint of **CYTHON 5-EC** in 2-5 gallons of water per 1000 bushels. Apply as the grain is being loaded or turned into final storage.

After grains are stored: To protect stored grains from attack by Indian meal moth, apply **CYTHON 5-EC** to the surface of clean or uninfested grain at the rate of $\frac{1}{2}$ pint in 1-2 gallons of water per 1000 square feet of grain surface area. Apply the spray evenly over the surface of the grain. Apply immediately after grain is loaded into storage and repeat if necessary. **Residual Spray - Box cars for Loading and Transporting Bagged Flour and Packaged Cereals:** For the control of confused flour beetle, rice weevil, granary weevil, saw-toothed grain beetle, flat grain beetle, red flour beetle, rusty grain beetle, lesser grain borer, Indian meal moth and mite pests infesting empty box car into which bagged flour and packaged cereals are to be loaded and transported apply **CYTHON 5-EC** as follows:

1. Clean the box cars thoroughly, then remove and burn all sweepings and debris.
2. Spray walls and floor to the point of run-off with either 1 gallon of **CYTHON 5-EC** in 25 gallons of water, or one gallon of **CYTHON 5-EC** in 19 gallons of deodorized kerosene. (The deodorized kerosene solution should be made up of 4 parts kerosene type solvent plus one part aromatic hydrocarbon type solvent.)
3. Let the sprayed box car stand empty with the doors open until the spray has thoroughly dried.
4. Line the walls and floors of the box car with kraft paper before loading.

APPLICATION

For ground application on crops listed, unless otherwise noted, the specified amounts of the emulsifiable liquid should be applied in sufficient water for good coverage, usually 25 to 50 gallons of water per acre. Application by aircraft should be made in 3 to 10 gallons of water per acre. Do not make application when winds exceed 5 miles per hour.

Field crops: Cotton: Bollweevil, Desert Spider mite, Cotton aphid, Leafhoppers, Thrips, Lygus bug - Use 1-2 qts. per acre. For control of worms and weevils. Cythion should be used in combination with other recommended insecticides.

Soybeans: Mexican bean beetle - Use $2\frac{1}{2}$ -3 pts. per acre. Do not apply within 3 days of harvesting or grazing.

Tobacco: Aphids - Use $1\frac{1}{2}$ - $2\frac{1}{2}$ pts per acre. Do not apply within 7 days of harvest.

Grass Crops: Grasshoppers, Aphids, Leafhoppers - Use $1\frac{1}{2}$ -2 pts. per acre. Armyworm - Use 2 pts. per acre.

Vegetables: Beans: Mexican bean beetle, leafhopper, Spider mites, Japanese beetle, Aphids, Cucumber beetle - Use $1\frac{1}{2}$ -2 pts. per acre. Do not apply within 1 day of harvest. Cabbage, Collards, Mustard Greens: Aphids - $1\frac{1}{2}$ -2 pts. per acre. Do not apply within 7 days of harvest.

Cucumbers: Aphids, Spider mites, Pickleworm - Use $1\frac{1}{2}$ pt per acre. Cucumber beetles - Use 3 pts. per acre. Do not apply unless plants are dry. Do not apply within 1 day of harvest. **Potatoes:** Aphids, Leafhoppers, Mealybug - Use 1 pt. per acre.

Fruit: Grapes: Leafhoppers, Spider mites, Mealybug - Use $1\frac{1}{2}$ pts. per 100 gallons water. Do not use within 3 days of harvest.

Spray may cause injury to foliage on some varieties.

Ornamentals: Oyster shell scale, Lace bug - 1 pt. per 100 gallons water. Euonymus scale, Aphids, Mealybug, Spider mites, Whitefly, Four-lined leaf bug, Japanese beetle adult, Potato leafhopper, Tarnished plant bug, Thrips, Rose Leafhopper, European pine shootmoth, Scurfy scale - 1 pts. per 100 gallons water. Birch leaf miner, Boxwood leaf miner, Bagworms, Tent caterpillar, Azalea scale - 2 pts. per 100 gallons water. Do not use on Boston, Maidenhair and Pteris ferns, and some species of crassula.

Livestock: Precaution for use of Cythion on Livestock:

Do not treat animals under one month of age.

When applying sprays, avoid contamination of food, food containers and watering troughs. Do not apply to lactating dairy animals. Do not apply to non-lactating dairy animals within two weeks of freshening.

Cattle: (Beef and non-milking): **Horses:** Lice - Use 1 gallon per 100 gallons water or 6 1/2 oz. per 5 gallons water. Treat animals thoroughly. Ticks - Use 1-2 gallons per 100 gallons water or 6 1/2-13 ozs. per 5 gallons water. Treat animals thoroughly. Repeat applications at 2 week intervals if need. Horn fly - Use 1-1 1/2 gallons per 100 gallons water or 6 1/2-10 ozs. per 5 gallon water. Apply on back and neck of the animals and repeat application at 10-14 day intervals.

HOGS: Lice - Use 1 gallon per 100 gallons water or 6 1/2 ozs. per 5 gallons water. Treat animals, pens and litter thoroughly.

Flies: For use in and around building which house domestic animals around yards and meat processing plants. Do not use when plant is in operation. Use 2 gallons in 100 gallons of water. Apply as a spray at the rate of 2 gallons per 1000 sq. ft. on unpainted surfaces and at the rate of 1 gallon per 1000 sq. ft. on painted surfaces where flies alight or congregate such as wall, ceilings, stanchions, windows, in dairy barns, fences, and garbage cans, etc.

Do not apply in the edible products area of food processing plants.
Do not use in serving areas while food is exposed.

Poultry: Precaution for use of Cythion on Poultry:

Avoid contamination of feed and feeding troughs and water fountains with spray.

When using emulsifiable liquid, use a high pressure sprayer for surface sprays.

CHICKENS, DUCKS, GEESE AND TURKEYS: Direct Application - Northern mite, Poultry lice, Chicken red mite - Use 2 tbs. per 1 gallon water per 100-150 birds. As a supplement to premise treatment for chicken red mite. Repeat application in 4-8 weeks or when necessary.

Roost Paint: Chicken red mite, Poultry lice - Use 2-7 ozs. per 1 gallon water. Brush on at rate of 1 pt. per 150 ft. of roost. **Premise Treatment:** Northern fowl mite, Chicken red mite, Poultry lice, Flies - Use 4 tbs. per 1 gallon water. Apply liberally to litter, walls, ceilings, roost nests and adjacent area. Force spray into cracks and crevices. **Premise Treatment:** Poultry ticks - Use 6-7 ozs. per 1 gallon water. Apply liberally to walls, ceilings and adjacent area. Force spray into cracks and crevices.

Domestic Pets: Do not apply directly to dogs and cats under one month of age.

DOGS & CATS: Fleas - 1 oz per gallon water. Wet animals thoroughly using a hand sprayer. Repeat treatments may be used within 2 to 3 weeks.

PET QUARTERS, YARDS, & LAWNS: Fleas - Use 5 oz. per gallon per 1000 sq. ft. of surface. Remove manure or debris before treating. Repeat treatment within 3 to 4 weeks if necessary.

NOTICE

Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herewith.

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