

PM 18 55947-74

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

MAR 17 1994

Fred Piskiewicz
SANDOZ AGRO IN.
1300 East Touhy Ave
Des Plaines, IL 6001807

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 01/21/94 in Response to PR Notice 93-7
EPA Reg. No. 55947-74
THURICIDE-48 LV

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.



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

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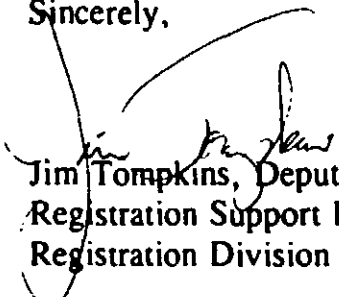
Submit the final printed labeling via the U.S. Postal Service to:

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

FRED PISZKIEWICZ
SANDOZ AGRO INC.

Comments for: EPA REG. NO. 55947-74
THURICIDE-48 LV

Delete the crossed out statements on your proposed label. They are redundant statements or phrases.

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THURICIDE® 48 LV

**AQUEOUS CONCENTRATE FOR AERIAL OR GROUND APPLICATION
FOR CONTROL OF ORNAMENTAL, SHADE TREE,
AND FOREST PESTS**

ACTIVE INGREDIENT:

Bacillus thuringiensis, subspecies kurstaki, potency 12,000
International Units (at least 18 million viable spores) per milligram*... 2.4%

INERT INGREDIENTS: 97.6%

TOTAL 100.0%

*Equivalent to 12.0 billion International Units per quart.

ACCEPTED
with COMMENTS
in EPA Letter Dated
MAR 17 1994

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

KEEP OUT OF REACH OF CHILDREN

55947-74

CAUTION

EPA Reg. No. 55947-74
EPA Est. No. 55947-CA-2
MADE IN U.S.A.

Net Contents: 5 Gal. or 53 Gal.
Lot No.:

THURICIDE® is a Registered Trademark of Sandoz Ltd.

SANDOZ AGRO, Inc.
Des Plaines, Illinois 60018

January 1994

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS

Avoid inhalation or contact with eyes or open wounds.

Personal Protective Equipment:

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

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 statements:

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.

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

Do not contaminate water when disposing of equipment washwaters.

DIRECTIONS FOR USE

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

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
- Waterproof gloves
- Shoes plus socks

Suspension must be shaken or stirred before use. Pour the recommended amount of THURICIDE® 48LV into the required volume of water in the spray tank. Agitate as necessary to maintain suspension. Do not allow diluted sprays to remain in the tank for more than 72 hours. THURICIDE® 48LV is formulated to provide desirable coverage and stickability on leaf surfaces. Additional adjuvants, spreaders, or stickers may be added but are not essential.

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

GROUND APPLICATION

Use adequate water to obtain good foliar coverage. Wet foliage but do not allow excessive run-off. Apply the recommended per acre rates of THURICIDE® 48LV with the following suggested amounts of water:

100 gallons with high-gallonage hydraulic sprayers
10 gallons with mist blower

AERIAL APPLICATION

Apply THURICIDE® 48LV at recommended rates by air either alone or as a spray mix diluted with water. Spray volumes of 32-128 ounces per acre are recommended. Best results are expected when THURICIDE® 48LV is applied to dry foliage with a calibrated aircraft capable of obtaining droplet sizes below 300 microns and preferably in the range of 50-150 microns.

RECOMMENDATIONS

Thorough coverage is essential when using THURICIDE® 48LV. Use the lower rate for light to moderate infestations. Use the higher rates against heavier worm infestations.

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Pest	Ounces Per Acre	Dosage BIU Per Acre	Directions For Use
Spring Cankerworm	11- 44	4-16	Apply when leaf expansion reaches 40-50% as infestation warrants. If eggs hatch over a long period of time or if reinfestation occurs, respray about 14 days after the first application.
Fall Cankerworm	11- 44	4-16	
Elm Spanworm	11- 44	4-16	
Tent Caterpillar	11- 44	4-16	
Gypsy Moth	22-106	8-40	
Spruce Budworm	16-106	6-40	Apply when most larvae are 3rd-4th instar. Also consider the opening of the bud cap to ensure foliage exposure.
Douglas Fir Tussock Moth	11- 44	4-16	Apply after eggs have hatched and early instar larvae are feeding on exposed foliage.
Jack Pine Budworm	11- 44	4-16	
Bagworm	11- 44	4-16	
California Oak Moth	11- 44	4-16	
Western Tussock Moth	11- 44	4-16	
Fruit Tree Leafroller	11- 44	4-16	
Mimosa Webworm	11- 44	4-16	
Redhumped Caterpillar	5- 32	2-12	
Fall Webworm	5- 22	2- 8	
Pine Butterfly	16- 64	6-24	

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STORAGE

Store in a cool place. Activity may be impaired by storage at temperatures above 90° F. Do not contaminate water, food, or feed by storage or disposal.

DISPOSAL

PESTICIDE

Wastes resulting from this product may be disposed on on-site or at an approved waste disposal facility.

CONTAINER (PLASTIC)

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke. Reuse of thoroughly cleaned container is allowable.

CONTAINER (METAL)

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. Reuse of thoroughly cleaned container is allowable.