

thuricide®-48LV

AQUEOUS CONCENTRATE FOR AERIAL OR GROUND APPLICATION

ACTIVE INGREDIENT:
Bacillus thuringiensis Berliner potency 12,000
International Units (at least 10 million viable
spores) per milligram 2.44
INERT INGREDIENTS: 97.56
100.00
*Equivalent to 12.0 billion International Units per quart.

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS

Hazards to Humans: Avoid inhalation or contact with eyes or open wounds.

DIRECTIONS FOR USE

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

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.

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. Use 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.

Pest	Ounces per Acre	Directions for Use
Spring and fall cankerworm	11-22	Apply when leaf expansion reaches 40%-50% or infestation warrants. If eggs hatch over a long period of time or if reinfestation occurs, spray about 14 days after first application. For gypsy moth control where a single application is planned, apply at least 32 ounces of Thuricide 48LV per acre.
Elm spanworm	11-22	
Teat caterpillars	11-22	
Gypsy moth	22-44	
Spruce budworm	16-44	Apply when most larvae are 3rd-4th instar. Also consider the opening of the bud cap to ensure foliar exposure.
Douglas fir tussock moth	11-22	Apply after eggs have hatched and early instar larvae are feeding on exposed foliage.
Jack pine budworm	11-22	
Beguom	11-22	
California oak moth	11-22	
Western tussock moth	11-22	
Fruit tree leafroller	11-22	
Miner webworm	11-22	
Redhumped caterpillar	5-16	
Fall webworm	5-11	
Pine butterfly	16-32	

STORAGE AND DISPOSAL

STORAGE: Store in a cool place. Activity may be impaired by storage at temperatures above 90° F. Protect from freezing.

DISPOSAL: Thoroughly clean and rinse empty drum with water and remove labeling. Residue should be disposed of by burial.

NOTICE: Sandoz, Inc. makes no warranty, express or implied, including the warranties of merchantability and/or fitness for any particular purpose, concerning this material except those which are contained on this label.

NET _____ LBS.
LOT _____



Sandoz, Inc.
Crop Protection
480 Camino Del Rio So.
San Diego, California 92108

EPA EST. NO. 36299-CA-1

Reg. No. 11273-

<p align="center">U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (WH-567) WASHINGTON, D.C. 20460</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">EPA REGISTRATION NO.</td> <td style="width: 50%; padding: 2px;">DATE OF ISSUANCE</td> </tr> <tr> <td colspan="2" style="padding: 2px;">TERM OF ISSUANCE</td> </tr> <tr> <td colspan="2" style="padding: 2px;">NAME OF PESTICIDE PRODUCT</td> </tr> </table>	EPA REGISTRATION NO.	DATE OF ISSUANCE	TERM OF ISSUANCE		NAME OF PESTICIDE PRODUCT	
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<p>NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)</p>	<div style="text-align: right; font-size: 1.2em; margin-top: 20px;"> <i>164/92501</i> <i>11/1</i> <i>Wth</i> </div>						
<p>NAME AND ADDRESS OF REGISTRANT (Include ZIP code)</p> <div style="height: 80px; border: 1px solid black; margin-top: 10px;"></div>							
<p>NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.</p>							
<p>On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.</p> <p>A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.</p> <p>Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p> <p>The Agency has no jurisdiction over the sale, distribution, or use of a pesticide registered under this Act. It is the responsibility of the registrant to comply with all applicable laws and regulations governing the sale, distribution, and use of pesticides.</p> <p>The Agency has no jurisdiction over the sale, distribution, or use of a pesticide registered under this Act. It is the responsibility of the registrant to comply with all applicable laws and regulations governing the sale, distribution, and use of pesticides.</p> <p>The Agency has no jurisdiction over the sale, distribution, or use of a pesticide registered under this Act. It is the responsibility of the registrant to comply with all applicable laws and regulations governing the sale, distribution, and use of pesticides.</p> <p>The Agency has no jurisdiction over the sale, distribution, or use of a pesticide registered under this Act. It is the responsibility of the registrant to comply with all applicable laws and regulations governing the sale, distribution, and use of pesticides.</p>							
<p><input type="checkbox"/> ATTACHMENT IS APPLICABLE</p>							
<p>SIGNATURE OF APPROVING OFFICIAL</p> <div style="height: 40px; border: 1px solid black; margin-top: 5px;"></div>	<p>DATE</p> <div style="height: 40px; border: 1px solid black; margin-top: 5px;"></div>						

MAR 1982

345 / 845-70
17 / 2

Ms. Mary C. Moreland
Peterson/Puritan, Inc.
Megeler Lane
Danville, IL 61832

Dear Ms. Moreland:


Subject: P/P Multi-Use Insect Spray
EPA Registration No. 11525-63
Your Amended Application of November 17, 1982

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

Note: We have no objections to the formulation change.

It is our understanding that this product under the new formula is to replace the old product accepted for registration on August 5, 1982. The Regulations for the Enforcement of the Act provide that after the effective date of a change in claims or formula, the product shall be marketed only under new claims or formula, except that a reasonable time may be permitted to dispose of properly labeled stocks of old product.

Sincerely yours,


Franklin D. R. Gee
Product Manager (17)
Insecticide-Rodenticide Branch
Registration Division (TS-767)

RD:Franklin D. R. Gee:DCR-29483:WANG-2013C:aca:Raven:479-2013:1/11/83 (ah03)

DIRECTIONS CONTINUED

After treatment, bedding and all garments must be either laundered in hot water or dry cleaned as required.

FOR MATTRESSES, FURNITURE AND CARPETING: Direct spray into all folds, tucks, seams and crevices of infested areas until moist. Allow all treated surfaces to dry completely before use.

BEDBUGS: Spray mattresses, particularly around tufts and seams. Take beds apart and spray into all joints. Treat baseboards, moldings and frames. Repeat treatment as necessary.

FLEAS: Spray sleeping quarters, bedding, floor and floor covering where pets are kept. Repeat as necessary. Use only a recommended pet spray on pets.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed or absorbed through skin. Avoid breathing vapors or spray mist. Avoid contact with skin and eyes. In case of contact, immediately flush eyes or skin with plenty of water. Obtain medical attention if irritation persists. If swallowed do not induce vomiting. Do not apply directly to food. In commercial food handling facilities, cover or remove any food and food processing equipment during application. Do not apply while food processing is underway. After space spraying in meat packing plants, bakeries and other food processing plants, wash all equipment, benches, shelving etc., where exposed food will be handled, with potable water. All food processing surfaces and utensils should be covered during treatment, or thoroughly washed before use. Remove pets, birds and cover fish aquariums before spraying.

PHYSICAL OR CHEMICAL HAZARDS

Contents under pressure. Do not puncture. Do not use or store near heat or open flame. Exposure to temperatures above 120°F may cause bursting. Never throw container into fire or incinerator.

STORAGE AND DISPOSAL

STORAGE: Store in a cool dry place.

DISPOSAL: Do not reuse empty container. Wrap container and put in trash collection.

MULTI-USE INSECT SPRAY

Industrial Strength - Low Dosage Required

For Use in Schools, Hospitals, Institutions, Hotels, Dairies, Supermarkets, Restaurants, Drive-Ins, Motels, Drugstores, Food Plants and Animal Quarters.

Provides Rapid Control of House Flies, Mosquitoes, Small Flying Moths (Millers), Gnats, Wasps and accessible stages of Roaches, Ants, Water Bugs, Silverfish, Flour Beetles, Weevils, Grain Mites and Spiders.

ACTIVE INGREDIENTS

Pyrethrins w/w 0.40%

*Piperonyl Butoxide, Technical 2.00%

Petroleum Distillate 7.40%

INERT INGREDIENTS

90.20%
100.00%

Contains Sodium Nitrite

*Equivalent to 1.6% (butylcarbityl) (6-propylpiperonyl) ether and 0.4% related compounds

KEEP OUT OF REACH OF CHILDREN

CAUTION

See side panel for additional precautionary statements.

EPA Reg. No. 11525-63

EPA Est. No. 11525-

Manufactured by:
Peterson/Puritan, Inc.
Hegeler Lane
Danville, IL 61832

NET CONTENTS 11525-63

DIRECTIONS FOR USE

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

SHAKE BEFORE USING AND AT INTERVALS DURING PROLONGED USE.

Hold container upright with nozzle away from you. Press valve down and spray as directed. To avoid possible staining of fabrics or surfaces, do not spray at close range.

HOUSEFLIES, MOSQUITOES, GNATS, WASPS AND SMALL FLYING MOTHS (MILLERS): Close all doors and windows and spray room at the rate of 1 second per 1000 cubic feet. Direct spray to all parts of the room, especially windows and other light sources which attract these insects. Keep nozzle in constant motion. Keep room closed for 10 to 15 minutes after treatment. Repeat treatment as necessary.

ROACHES, WATERBUGS, SILVERFISH, CRICKETS, SPIDERS, CENTIPEDES AND SOW BUGS: Spray into hiding places such as cracks and crevices, behind sinks, cabinets, along baseboards and floors, around drains and plumbing, killing insects with spray whenever possible. Repeat treatment as necessary.

ANTS: Spray trails, nests and points of entry. Spray on ants where possible. Repeat as necessary.

INDIAN MEAL MOTHS AND ANGIOUMOIS GRAIN MOTHS: Close doors and windows. Direct spray into all parts of room especially around stored food product containers, pallets and darkened areas. Spray 7 to 10 seconds for each 1000 cubic feet of space. Keep area closed for 15 minutes following treatment. Repeat application weekly or as needed.

CARPET BEETLES: Spray directly on beetles, baseboards, floors, shelves and carpets. Repeat treatment as necessary.

CONFUSED FLOUR BEETLES, SAW-TOOTHED GRAIN BEETLES, GRANARY WEEVILS, RICE WEEVILS, RED FLOUR BEETLES, GRAIN MITES: Spray into cracks and crevices, processing and handling equipment, around cartons or containers and other areas where these insects tend to congregate. Spray 30 seconds for each 100 square feet of surface. Keep area closed for 45 minutes to 1 hour after treatment. Repeat applications as necessary.

LICE: Spray on garments, bedding, mattresses, furniture, floors, carpeting and inanimate surfaces. First spray an inconspicuous area to test for possible staining or discoloration. Inspect after drying, then proceed to spray entire area to be treated.

Hold can upright with nozzle away from you. Press button and spray surface to be treated from a distance of 10 inches. Spray each square foot for 3 seconds, directing spray into all infested surfaces until moist.

FOR BEDDING: Make sure spray is directed into corners of fitted sheets and blankets as well as inside and outside of pillow cases. In the case of garments and headgear, close attention should be given to seams, hems, cuffs, collars, and creases.