

11273-3

12-19-75

1043

SANDOZ-WANDER, INC.
P.O. Box 1489
Homestead, FL 33030

Gentlemen:

Subject : THURICIDE HP SPRAY CONCENTRATE
EPA Reg. No. 11273-3
Application of December 12, 1975

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

Please note that we are awaiting final printed labels for Thuricide-HP as a tank mixture.

Note that this submission was processed and accepted under the 1947 Federal Insecticide, Fungicide, and Rodenticide Act. At such time as re-registration is required or amendments are proposed, the Registration, Re-registration and Classification Procedures, as published in the Federal Register on July 3, 1975, will be applied. Refer to Section 162.23 of that document. Refer also to P.R. Notice 75-1 and 75-4.

Sincerely,

Gerald Harrison
Product Manager (17)
Insecticide-Rodenticide Branch
Registration Division (WH-567)

Enclosure
Stamped Label

WH-567:IRB:GHarrison:yh:rm 219:WS4E:X 68815: 12/16/75



thuricide®-HP

SPRAY CONCENTRATE (Wettable Powder)

ACTIVE INGREDIENT: *Bacillus thuringiensis* Berliner, potency of 16,000 International Units

(at least 30 million viable spores) per milligram * 3.2%

INERT INGREDIENTS 96.8%

100.0%

* Equivalent to 7.2 billion International Units per pound

STORE IN A COOL PLACE

KEEP OUT OF REACH OF CHILDREN

CAUTION

AVOID INHALATION OR CONTACT WITH EYES OR OPEN WOUNDS

APPLY THIS PRODUCT ONLY AS SPECIFIED ON THIS LABEL

DIRECTIONS FOR USE

GENERAL:

Apply at first sign of infestation when worms are small and repeat at weekly intervals as needed to maintain control. Thuricide HPSC wettable powder attacks the larval gut and must be eaten by the insect to be effective. Thorough under-leaf coverage is, therefore, essential for best results. After eating Thuricide HPSC wettable powder, worms stop feeding and die within 2-3 days. Since the active ingredient, *Bacillus Thuringiensis*, is exempt from tolerance requirements, Thuricide HPSC wettable powder may be applied up to the day of harvest.

MIXING:

Pour recommended amount onto surface of partially filled spray tank. Maintain agitation until tank is filled to desired level. Spray tanks equipped with by-pass agitation only should maintain pump circulation at full capacity until mixing is complete. Use the higher rates against very heavy worm infestations, or where it is difficult to get good coverage due to rank foliage. Do not allow dilute sprays to stand in the tank for more than 12 hours. Combinations with chemical insecticides, fungicides, spreader-stickers, and stick-

ers in the tank are generally not deleterious to Thuricide HPSC wettable powder if the mix is used promptly.

GROUND APPLICATION:

Use recommended amount of Thuricide HPSC wettable powder in a minimum of 5 to 50 gallons of water, depending on the type of crop and requirements of state regulations. Add a sticker, adhesive or deposit builder where heavy dew or rain is encountered.

GROUND APPLICATION, TREES:

Use recommended amount of Thuricide HPSC wettable powder in 100 gallons of water in high pressure, high gallonage, hydraulic sprayers. Wet foliage thoroughly with spray but not to the point of excessive runoff. For mist blowers use recommended amount in 10 gallons of water. To prevent washoff by rain add a sticker to the finished spray.

AERIAL APPLICATION:

Use recommended amount of Thuricide HPSC wettable powder in 5 to 20 gallons of water. A sticker should be added under conditions of heavy dew or rain. Apply early morning or evening when the air is calm.

CONTAINER DISPOSAL: Do not reuse empty container. Destroy or discard in safe place.

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 Sandoz, Inc.'s label.

NET _____ POUNDS

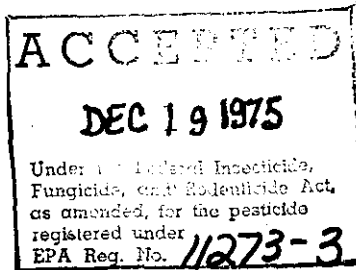
LIT _____



Sandoz, Inc.
Crop Protection
Homestead, Florida 33030

EPA Est. No. 36299 - CA -1

EPA Reg. No. 11273-3



RECOMMENDATIONS: Thorough coverage is essential when using Thuricide-HPSC Wettable Powder

Crop	Pest	Lbs. per Acre
ALFALFA (Arizona, West Coast)	Alfalfa caterpillar	1/8 - 1/4
BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER, COLLARDS, KALE, MUSTARD GREENS, TURNIP GREENS	Cabbage looper	1/2 - 1
	Imported cabbage worm	1/4 - 3/4
	Diamondback moth	1/4 - 1/2
BEANS, CELERY, LETTUCE, SPINACH	Cabbage looper	1/2 - 1
CUCUMBERS (Southeast only), MELONS	Cabbage looper	1/4 - 3/4
COTTON (Arizona, California), POTATOES	Cabbage looper	1/2 - 1
SOYBEANS	Soybean looper	1/2 - 3/4
	Cabbage looper, Green cloverworm, Velvetbean caterpillar	1/4 - 3/4
TOBACCO	Cabbage looper	1/2 - 3/4
	Tobacco budworm, Tobacco hornworm	1/4 - 3/4
TOMATOES	Cabbage looper, Tomato hornworm	1/2 - 3/4
WATERMELONS (Florida)	Rindworm complex	1/4 - 3/4
GRAPES	Grape leaf folder	1/2 - 1
Start treating as soon as possible after hatching and before larvae are protected by leaf folds. Apply by ground equipment in up to 200 gallons total spray per acre to obtain thorough coverage of leaf surfaces.		
GRAPES (California)	Omnivorous leafroller	1/2 - 1

The following must be applied by ground equipment only:

ORANGES (Arizona, California)	Fruit tree leafroller	1/2 - 1
	Orange dog	1/4 - 1/2
WALNUTS (California)	Redhumped caterpillar	1/4 - 1
SHADE TREES, ORNAMENTALS, FOREST	Spring & Fall cankerworm, Fall webworm, Great Basin Tent caterpillar (West U.S.)	
	Tent caterpillar	1/4 - 1/2
	Redhumped caterpillar (California)	1/4 - 1
	Oakmoth larvae (California), Gypsy moth (Northeast)*	1/2 - 1

*** GYPSY MOTH: Aerial Application**

Thuricide HPSC wettable powder may also be applied by air to prevent excessive defoliation by gypsy moth. For best results, spray when leaf expansion reaches 40% - 50%, and respray 14 days later. Use one pound of Thuricide HPSC wettable powder in 1-4 gallons finished spray per acre. Incorporate in the spray mix an evaporation retardant, such as molasses, Cargill's Insecticide Base, polyethylene glycol E-400, and a film-forming sticker. To obtain thorough coverage use spray equipment suitable to deliver droplets with an average diameter of less than 300 microns.