

4-226

10/14/1981

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Bonide Chemical Co., Inc.
2 Waz Avenue (Office: Commercial Drive)
Yorkville, NY 13495

Gentlemen:

Subject: Bonide Bacillus Thuringiensis (Bt)
Moth and Butterfly Larvae Control
EPA Registration No. 4-226

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.

Sincerely,



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

Enclosure

1441A:FDRGee:Rose: #26972:RAVEN:479-2018:10/01/81

GENERAL INFORMATION

BONIDE NATURAL-ORGANIC BACILLUS THURINGIENSIS (BT) is a microbial bacterium which is toxic to many moth and butterfly larvae (worms). As a biological product, it should be protected from extremes of heat and cold (70°F & 32°F) to maintain effectiveness. There is no residue problem and being exempt from tolerance requirements, may be applied at recommended amounts up to day of harvest. BT attacks the insects intestine and must be eaten. After ingestion, worms stop feeding and die within 2-3 days.

DIRECTIONS

Apply at first sign of infestation when worms are small and repeat at weekly intervals as needed to maintain control. Through untreated coverage is essential for best results. Where heavy dew or rain is anticipated, addition of a sticker, adhesive or deposit builder such as Nu Film 17, Dupont sprayer stickers or Rohm & Haas B1756, is recommended.

MIXING: Always shake or stir thoroughly before use. Pour recommended amount onto surface of water in a clearly filled spray tank. Maintain agitation. Use the 2-liter rates against very heavy worm infestations, or where it is difficult to get good coverage due to rock foliage. Do not allow dilute sprays to stand in the tank for more than 12 hours. Concentrations with chemical insecticides, fungicides, weed-killers, and other chemicals in the tank are generally not harmful if the mix is used promptly. Do not reuse empty containers; destroy or discard in safe place.

GROUND APPLICATION, TREES: Use recommended amount in 100 gallons of water in high-pressure, high-gallage hydraulic sprayers. Wet foliage thoroughly with spray but not to the point of excessive runoff. For most diseases use recommended amount in 10 gallons of water. To prevent washoff by rain add a sticker to the finished spray.

GROUND APPLICATION: Use recommended amount in a minimum of 5 to 60 gallons of water, depending on the type of crop and requirements of state regulations.

AERIAL APPLICATION: Use recommended amount in 5 to 20 gallons of water. Apply early morning or evening when the air is calm.

GPSY MOTH (Restricted to the Netherlands United States): Aerial Application — BONIDE BT may also be applied by air to prevent excessive defoliation by gypsy moth. Application should be started when egg hatch is essentially complete and the larvae are in the 2nd and 3rd instar. For best results, spray when leaf expansion reaches 40-50%, and re-spray 14 days later. Use two quarts in 3-4 gallons finished spray per acre. Incorporate in the spray mix an evaporative retardant, such as Malathion, Carbof, insecticide base, polyethylene glycol E-400, and a fine forcing oiler (see above). To obtain thorough coverage use spray equipment suitable for delivery of droplets of less than 300 micron average diameter.

Buyer's guarantee limited to label claims

Manufactured for

BONIDE CHEMICAL CO., INC., Yorkville, N.Y. 13495

BACILLUS THURINGIENSIS (BT)
MOTH LARVAE (CATERPILLAR) CONTROL

FOR CONTROL OF CERTAIN LEAF EATING WORMS ON FRUITS, VEGETABLES, SHADE TREES AND ORNAMENTALS AS DESCRIBED ON SIDE PANEL

CROP	PEST	AMOUNT
ALFALFA	alfalfa caterpillar	15 tsp./gal. water, or 1/2 qt./100 gals. per acre
BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER, COLLARDS, KALE, MUSTARD GREENS, TURNIP GREENS	cabbage looper	2-4 tsp./gal. water, or 1-2 qts./100 gals. per acre
	imported cabbage worm	1-3 tsp./gal. water, or 1/2-1 1/2 qts./100 gals. per acre
BEANS, CELERY, LETTUCE, SPINACH	cabbage looper	2-4 tsp./gal. water, or 1-2 qts./100 gals. per acre
MELONS, POTATOES, CUCUMBERS (Sweet/Meat only)	cabbage looper	1-3 tsp./gal. water, or 1/2-1 1/2 qts./100 gals. per acre
COTTON (Arizona, California)	cabbage looper	2-4 tsp./gal. water, or 1-2 qts./100 gals. per acre
TOBACCO	cabbage looper	2-4 tsp./gal. water, or 1-1 1/2 qts./100 gals. per acre
	tobacco budworm tobacco hornworm	1-2 tsp./gal. water, or 1/2-1 1/2 qts./100 gals. per acre
TOMATOES	cabbage looper	1-3 tsp./gal. water, or 1-1 1/2 qts./100 gals. per acre
	tomato hornworm	2-2 tsp./gal. water, or 1/2-1 1/2 qts./100 gals. per acre
WATERMELONS (Plant-as)	hornworm complex	1-2 tsp./gal. water, or 1/2-1 1/2 qts./100 gals. per acre
GRAPES	grape leaf folder	2-4 tsp./gal. water, or 1-2 qts./100 gals. per acre
	omnivorous leaf roller (California)	1-3 tsp./gal. water, or 1/2-1 1/2 qts./100 gals. per acre
ORANGES (GROUND APPLICATION ONLY — ARIZONA AND CALIFORNIA)	fruit tree leaftroller	2-4 tsp./gal. water, or 1-2 qts./100 gals. per acre
	orange dog	1-1 1/2 tsp./gal. water, or 1/2 qt./100 gals. per acre
WALNUTS (GROUND APPLICATION ONLY — CALIFORNIA)	redhumped caterpillar	1/2-2 tsp./gal. water, or 1/4-1 qt./100 gals. per acre

ACCEPTED

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EPA Reg. No. 4226

California Dept. of Pesticide Control

200