

BIOLOGICAL LARVICIDE

LIST NO. 5620 01

BEST AVAILABLE COPY

VECTOBAC® TECHNICAL POWDER

Active Ingredient.

Bacillus thuringiensis, Serotype H-14, fermentation solids and spores.
5000 International Toxic Units of Potency per mg. (Equivalent to 2.275 Billion International Toxic Units per pound of undiluted powder) 100%

KEEP OUT OF REACH OF CHILDREN

CAUTION

ENVIRONMENTAL HAZARDS: Keep out of lakes, ponds or streams. Do not contaminate water by cleaning of equipment or disposal of wastes.

STORAGE AND DISPOSAL: Do not contaminate water, food, or feed by storage or disposal.
STORAGE: Store tightly closed containers in a cool, dry place.
PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
CONTAINER DISPOSAL: Do not reuse liner or drum. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into manufacturing equipment. Then dispose of liner in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Perforate or crush drum and dispose of in the same manner.

FOR MANUFACTURING USE ONLY

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

0.455

VECTOBAC TECHNICAL POWDER must be diluted before application by suitable aerial or ground equipment at a suggested rate range* of 0.455 to 0.91 billion ITU's per acre for usual mosquito habitats and 0.91 to 1.82 Billion ITU's per acre on polluted water, sewage lagoons, etc.

*Use higher rate when late 3rd or 4th instar larvae predominate, mosquito populations are high, water is heavily polluted, and/or algae are abundant

A 7 to 14 day interval between applications should be employed. Where non-target aquatic invertebrate parasites and predators are present, longer periods of suppression may result since these beneficials would be conserved to aid in mosquito population management.

GRANULATION

DILUTION DIRECTIONS: First, load the required amount of an appropriate diluent such as washed dry sand into a suitable mixer; second, spray vegetable oil (such as soybean or corn oil at 1.3% by weight of the total desired) or other binder described below while the mixer is running to coat the sand granules, and finally, add the calculated amount of VECTOBAC TECHNICAL POWDER from the example shown below onto the diluent/binder mixture and blend for 30 minutes or until uniformly coated with the VECTOBAC TECHNICAL POWDER.

Example Blend (based on 100 pounds of sand)-

Material	By Weight
Binder** (vegetable oil)	1 lb 6 oz. (1 pint 7 fl oz.)
Diluent (such as sand)	100 lbs
VECTOBAC TECHNICAL POWDER	4 lbs 4 oz
Total	105 lbs 10 oz.

**If desired, substitute GB 1356 (Golden Bear Division, Wm. T. Grant Corporation) 2 lbs 2 oz (approximately 2 pints 4 fl ounces) as a binder in place of a vegetable oil

Apply at a rate of 2 to 20 pounds of blended formulation per acre. This rate of application equals 0.192 Billion ITU's/acre to 1.82 Billion ITU's/acre

NOTICE TO USER

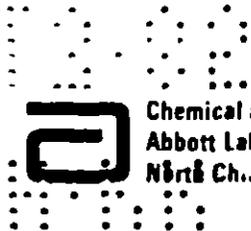
Seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning the use of this product other than as indicated on the label. User assumes all risks of use, storage or handling not in strict accordance with accompanying directions.

EPA Registration No. 275-54

EPA Est. No. 33762-IA-1

Lot No.

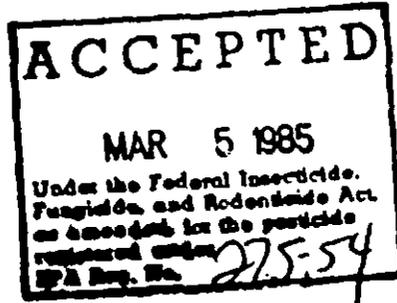
Net Contents: 25 lbs.



Chemical and Agricultural Products Division
Abbott Laboratories
North Chicago, Illinois 60064

01 3222 2/79

3. Mix 5-10 minutes to insure that sand particles are covered with GB 1356.
4. While mixer continues to run, add the calculated amount of VECTOBAC-TP (as shown in table below). Continue mixing 15-30 minutes or until sand granules are uniformly coated with VECTOBAC-TP.



← Materials	% W/W	Based on	Based on
		100 lbs.sand	94 lbs.sand
Vectobac Technical Powder	4.00	4.3 lbs.	4.0 lbs.
1)GB 1356	2.00	2 pts 5 fl oz (2.13 lbs.)	2 pts 3 fl oz (2 lbs.)
Sand (washed/dry)	94.00	100 lbs.	94 lbs.
	100%	106.4 lbs.	100 lbs.

1)GB 1356 is available from Golden Bear Division,
Witco Chemical Corporation.

Application Directions

Mosquitoes Habitat

Irrigation ditches, roadside ditches,
flood water, standing ponds, woodland
pools, snow melt pools, pastures, catch
basins, storm water retention areas,
tidal water, salt marshes and rice fields

Suggested Rate Range*

5-10 lbs/acre

*Use 10-20 lbs/acre when late 3rd and early 4th instar larvae predominate, mosquito populations are high, water is heavily polluted, (sewage lagoons, animal waste lagoons) and/or algae are abundant.

Draft 1
February 7, 1985
eJInq

Rotating Type Mixer

275-34

1 of 2
PM 17

1. Place suitable diluent, such as sand, in rotating type mixer (cement mixer, ribbon blender, or equivalent).
2. Add Golden Bear 1356 while mixer is running (GB 1356 may be sprayed on or gradually poured over sand).
3. Mix 5-10 minutes to insure that sand particles are covered with GB 1356.
4. While mixer continues to run, add the calculated amount of VECTOBAC-TP (as shown in table below). Continue mixing 15-30 minutes or until sand granules are uniformly coated with VECTOBAC-TP.

ACCEPTED
 MAR 5 1985
 Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended for the pesticide registered with EPA Reg. No. 275-54

← <u>Materials</u>	<u>% W/W</u>	<u>Based on</u>	<u>Based on</u>
		<u>100 lbs. sand</u>	<u>94 lbs. sand</u>
Vectobac Technical Powder	4.00	4.3 lbs.	4.0 lbs.
1) GB 1356	2.00	2 pts 5 fl oz (2.13 lbs.)	2 pts 2 fl oz (2 lbs.)
Sand (washed/dry)	<u>94.00</u>	<u>100 lbs.</u>	<u>94 lbs.</u>
	100%	106.4 lbs.	100 lbs.

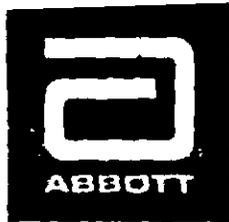
1) GB 1356 is available from Golden Bear Division, Witco Chemical Corporation

Application Directions

<u>Mosquitoes Habitat</u>	<u>Suggested Rate Range*</u>
Irrigation ditches, roadside ditches, flood water, standing ponds, woodland pools, snow melt pools, pastures, catch basins, storm water retention areas, tidal water, salt marshes and rice fields	5-10 lbs/acre

*Use 10-20 lbs/acre when late 3rd and early 4th instar larvae predominate, mosquito populations are high, water is heavily polluted, (sewage lagoons, animal waste lagoons) and/or algae are abundant.

Draft Labeling
February 7, 1985



BIOLOGICAL LARVICIDE

LIST NO. 5620 of

BEST AVAILABLE COPY

VECTOBAC® TECHNICAL POWDER

Active Ingredient:

Bacillus thuringiensis, Serotype H-14, fermentation solids and solubles,
5000 International Toxic Units of Potency per mg. (Equivalent to 2.275 Billion International Toxic
Units per pound of undiluted powder) 100%

KEEP OUT OF REACH OF CHILDREN

CAUTION

ENVIRONMENTAL HAZARDS: Keep out of lakes, ponds or streams. Do not contaminate water by cleaning of equipment or disposal of wastes.

STORAGE AND DISPOSAL: Do not contaminate water, food, or feed by storage or disposal.

STORAGE: Store tightly closed containers in a cool, dry place.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Do not reuse liner or drum. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into manufacturing equipment. Then dispose of liner in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Perforate or crush drum and dispose of in the same manner.

FOR MANUFACTURING USE ONLY

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

(U. 455)

VECTOBAC TECHNICAL POWDER must be diluted before application by suitable aerial or ground equipment at a suggested rate range* of 0.100 to 0.91 billion ITU's per acre for usual mosquito habitats and 0.91 to 1.82 Billion ITU's per acre on polluted water, sewage lagoons, etc.

*Use higher rate when late 3rd or 4th instar larvae predominate, mosquito populations are high, water is heavily polluted and/or algae are abundant.

A 7 to 14 day interval between applications if parasites and predators are present, low temperatures should be conserved to aid in mosquito population control.
GRANULATION

SOLUTION DIRECTIONS: First, load material into a suitable mixer; second, spread material (to the total desired) or other binder described on label; finally, add the calculated amount of VECTOBAC TECHNICAL POWDER to the diluent/binder mixture and blend thoroughly.

Example Blend (based on 100 pounds of material)

Material	B
Binder**	B
(vegetable oil)	
Diluent	
(such as sand)	1
VECTOBAC	
TECHNICAL	
POWDER	
Total	1

**If desired, substitute GB 1356 (Golden Breeze) or other suitable binder in place of a vegetable oil.

Apply at a rate of 2 to 20 pounds of blend per acre to 1.02 Billion ITU's/acre to 1.82 Billion ITU's/acre.

Seller makes no warranty, express or implied, other than as indicated on label. Use in strict accordance with accompanying directions.

EPA Registration No. 275-54

EPA Est. No. 33762-1A-1

Lot No.

Net Contents: 25 lbs.

 Chemical and Agricultural
Abbott Laboratories
North Chicago, Illinois