

ACCEPTED
JUN 22 1964
275-29

32B

Net Contents:
1 Quart

32B



List No 545
EPA Registration No 275-29
EPA Est No 33701A-1

Lot No

Chemical and Agricultural
Products Division
Abbott Laboratories
North Chicago, Ill. 60064

AQUEOUS SUSPENSION
BIOLOGICAL INSECTICIDE

Active Ingredient

8,000 International Units of
Paten 1.02 mg (0.25 International
Units per gram) 1.02 mg (0.25
International Units per gram)

KEEP OUT OF REACH OF CHILDREN
CAUTION

**PRECAUTIONARY
STATEMENTS
HAZARDS TO HUMANS
(and Domestic Animals)**

CAUTION

Avoid contact with skin, eyes or clothing. In case of contact immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

Beneficial Insects

Honeybees foraging treated areas are not harmed by Dipel 32B use.

Dipel 32B does not interrupt the activities of beneficial and predatory arthropods in pest management programs.

Directions for Use

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

Refer to Package Enclosure for crop rates and general directions.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE: Keep containers tightly closed when not in use. At temperature less than 0 and greater than 100 F, DPEL 32B should be stored under cover.

Final Use/Disposal: Pests on spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State or local procedures.

UNLAWFUL DISPOSAL: This pesticide must not be disposed of in a sanitary landfill or by incineration. It is a violation of Federal, State and local authorities.

NOTICE TO USER

Delia makes no warranty, express or implied, of merchantability, fitness or otherwise concerning use of this product other than as indicated on the label. It is assumed that the user is familiar with the use of this product and is aware of the hazards of its use.

BEST DOCUMENT AVAILABLE

Net Contents: 2 1/2 Gallons

32B

ACCEPTED

JUN 22 1984

U.S. Environmental Protection Agency
 Federal Insecticide, Fungicide, and Rodenticide Act
 Registration No. 275-29
 EPA Reg. No. 275-29



AQUEOUS SUSPENSION
 BIOLOGICAL INSECTICIDE

Active Ingredient

var.

8,000 International Units of

Potency per mg (32 billion

International Units per gallon) 1.6%

Inert Ingredients 98.4%

KEEP OUT OF REACH OF CHILDREN

CAUTION

40-510

81-840

Net Contents: 2½ Gallons

32B

275-29



**AQUEOUS SUSPENSION
BIOLOGICAL INSECTICIDE**

Active Ingredient

	var
8,000 International Units of	
Potency per mg (32 billion	
International Units per gallon)	1.6
Inert Ingredients	93.4

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

9

275-29

BEST DOCUMENT AVAILABLE

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS (and Domestic Animals)**

CAUTION

Avoid contact with skin, eyes or clothing. In case of contact immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

Beneficial Insects

Many bees foraging treated areas are not harmed by Dipel 32B. Dipel 32B does not interrupt the activities of beneficial and predaceous arthropods in pest management programs.

Directions for Use

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

Refer to Package Enclosure for crop rates and general directions.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

See PAGE 10. Keep containers tightly closed when not in use. At temperatures less than 60° F and greater than 100° F, Dipel 32B should be stored under cover.

PESTICIDE DISPOSAL: Pesticide spray mixture or rinse water that cannot be used should be disposed of according to applicable Federal, state or local procedures.

CONTAINER DISPOSAL: (Inquire for equivalent) Dispose of in a sanitary landfill or by other methods allowed by state and local authorities.

NOTICE TO USER

Do not make any warranty, express or implied, of merchantability, fitness or otherwise concerning any use of this product other than as indicated on the label. The user assumes all responsibility for proper handling of insecticides in accordance with applicable regulations.

Product No. 145
EPA Reg. No. 272-27
EPA Reg. No. 3262-14
EPA Reg. No. 3262-14

United States Department of Agriculture
Agricultural Research Service
Registration Division
Washington, D.C. 20250

275-29
EPA Reg. No. 3262-14

dipel 32B

WORM KILLER

AQUEOUS POWDER BIOLOGICAL INSECTICIDE

Active Ingredient:
Bacillus thuringiensis, var. kurstaki, 5000
International Units of Potency per mg
(32 Billion International Units
per gallon) 1.6%

Inert Ingredients 98.4%

KEEP OUT OF REACH OF CHILDREN

CAUTION

EPA Registration No. 275-29
EPA Est. No. 33762-1A-1

BENEFICIAL INSECTS

Honeybees foraging treated areas are not harmed by DIPEL 32B use.

DIPEL 32B does not interrupt the activities of beneficial and predaceous arthropods in pest management programs.

DIRECTIONS FOR USE

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

For Smaller Spray Volumes

Rate	Use This Amount Per Gallon
1 qt. acre or 100 gals.	1/4 tsp
1 pt. acre or 50 gals.	1 tsp
1 gal. acre or 100 gals.	2 tsp
2 gal. acre or 200 gals.	4 tsp

DIRECTIONS FOR USE

DIPEL 32B is a highly selective insecticide for use against listed caterpillars (larvae) of lepidopteran insects. Close scouting and early attention to infestations is highly recommended. Larvae must eat deposits of DIPEL 32B to be affected. Always follow these directions:

- Treat when larvae are young (early instars) before the crop is extensively damaged.
- Larvae must be actively feeding on treated, exposed plant parts.
- Thorough spray coverage is needed to provide a uniform deposit of DIPEL 32B at the site of larval feeding. For some crops directed drop nozzles by ground machine are required.
- Under heavy pest population pressure, use the higher label rates, shorten the spray interval, and/or raise gallonage to improve spray coverage.
- Repeat applications at an interval sufficient to maintain control, usually 3 to 14 days depending on plant growth rate, moth activity, rainfall after treating, and other factors. If attempting to control a pest with a single spray, make the treatment when egg hatch is essentially complete, but before extensive crop damage occurs.
- A sprayer sticker which has been approved for use on growing and harvested crops should be added for hard to wet crops such as cucurbits to improve weather fastness of the spray deposits.

After eating a lethal dose of DIPEL 32B, larvae stop feeding within the hour, and will die within several days. Flying larvae move slowly downer than shrivel, flaccid and die.

DIPEL 32B may be applied in conventional ground or aerial equipment with quantities of water sufficient to provide thorough coverage of infested plant parts. The amount of water needed per acre will depend on crop size, weather, spray equipment, and local experience. Unless otherwise indicated, use at least 2 gallons of water by air, except in the far west, 5 to 10 gallons is the usual minimum. Add water to the spray or mixing tank at the level that provides maximum agitation. With the agitator running, slowly sprinkle in the DIPEL 32B. Continue agitation. Then add other spray materials, if any. Add the balance of the water. Maintain the suspension while feeding and spraying. Do not mix more DIPEL 32B than can be used in a 24-hour period.

CAUTION: Use of directed spray equipment through nozzles is suggested.

APPLICATION RATE

Crop	Pest	Pests/Acre	
Cereals and Vegetables including Leafy, Root, Stem, and Seed and Pod Types (Peanut, Beans) Lentils, Alfalfa, Dry or succulent Potatoes Cucurbits	Loopers	1 to 2	
	Hornworms	1/2 to 1	
	Imported Cabbageworm	1/2 to 1	
	Diamondback Moth	1/2 to 1	
	Green Fleaworm	1/2 to 1	
	Webworm	1 to 2	
	Armyworm*	2 to 4	
	Tomatoes, Peppers, Eggplant	Loopers	1 to 2
	Hornworms	1/2 to 1	
	Tomato Pinworm*	2	
	Variegated Cutworm	2	
	Salt Marsh Caterpillars	1 to 2	
	Armyworm*	2 to 4	

*DIPEL 32B may be used to suppress small armyworms (1st and 2nd instar) when populations are light and full coverage ground sprays are applied.

Cucurbits, Melons, Squash, Cucumbers, etc.	Armyworm Complex* Melonworm	1 to 2 2 to 4
Tobacco	Tobacco Budworm	1 to 2
	Hornworms	1/2 to 1
	Loopers	1 to 2

*Apply weekly in a preventive program.
**DIPEL 32B may be used to suppress small armyworms (1st and 2nd instar) when populations are light and full coverage ground sprays are applied.

Soybeans, Sunflowers, Peas	Loopers	1 to 2
	Green Fleaworm	1/2 to 1
	Velvetbean Caterpillar	1/2 to 1
	Fleaworm*	1 to 2

*DIPEL 32B suppresses podworms under pest management conditions.
*Apply weekly in a preventive program.

Alfalfa Pastures, Hay, Sod, Ground and Forage Crops	Loopers	1 to 2
	Alfalfa Caterpillar	1 to 1
	European Spruce (Pine) Sawfly*	1 to 1

*Use to suppress 1st or moderate populations of newly hatched larvae in pest management conditions. Use under best scouting when beneficial insects are active on bud. Repeat treatments at 4 to 5 day intervals as long as necessary and results are acceptable. 1/2 lb. or more of moths have eggs and 1 to 2 All-chemical (Gardene® or Furon®) per acre to 1 qt. DIPEL 32B increase the effectiveness. Use All if needed.

Range Land Use up to 1 qt. per acre per year	Range Caterpillar	1 to 2
Corn	Tobacco Budworm*	1 to 2
	Common Budworm*	1/2 to 2
	Loopers*	1 to 2

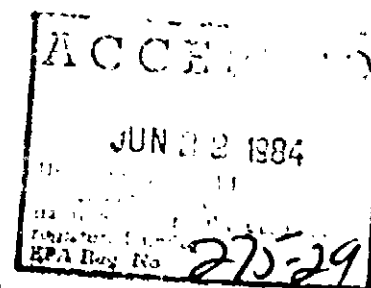
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STORAGE AND DISPOSAL

See container label.
Days to harvest: There are no restrictions on applying DIPEL 32B up to the time of harvest.
Sites: DIPEL 32B may be used for any listed pest in both field and growth cases see.
Bacillus thuringiensis is exempt from the requirements of a tolerance on all raw agricultural or animal products when applied to growing crops or after harvest in accordance with good agricultural practices.

BEST DOCUMENT AVAILABLE

Tort	Seed Webworm	4 to 8
Crop	Post	Pints/100 Gallons
Flowers and Ornamentals (ground only)	Loppers	1 to 2
	Tobacco Budworm	1 to 2
	Omnivorous	1 to 2
	Loppers	1 to 2
	Omnivorous	1 to 2
	Leafroller	1 to 2
	Diamondback Moth	1/2 to 1 1/2
	Anthonomus*	2 to 4
	(No Moth)	1/2 to 1
	(Omnivorous)	1 to 2
Leafminer	1 to 2	
Omnivorous	1 to 2	

*DIPEL 32B may be used to suppress small anthonomus (1st and 2nd instar) unless populations are light and full coverage ground sprays are applied.

DIPEL 32B FOR STORED AGRICULTURAL COMMODITIES

GRAINS, SOYBEANS, SUNFLOWER SEED, CROP SEED, COMMERCIAL SEEDS, SPICES, HERBS

Post	Rate
Indian Meal Moth	1 1/2 pints/100 bu*
Almond Moth	1 1/2 pints/100 bu*

*As a surface treatment, apply 2 pints DIPEL 32B in 10 gal. of water per 500 sq. ft. of grain surface area, mix into top 4 inches.
For the control and prevention of these pests, apply DIPEL 32B in a constantly agitated water suspension to the top four inch surface layer of grain in the bin. Use a sprayer or an applicator to apply the dosage into the grain stream as the feed auger for each layer is no longer into the bin. Mix 3.18 pt. DIPEL 32B per gallon of water. Apply 0.8 pint of the mixture per bushel of grain as it is moved into storage. Or sprinkle the dosage onto the surface of the grain in the bin and mix thoroughly with a scoop or rake to the depth of four

inches. More thorough coverage may be achieved by dividing the recommended dosage into three applications and mixing the grain between applications.

For the protection of bagged grain, apply the dosage to the entire grain mass and mix thoroughly prior to bagging. Treatments can be applied to the stored grain at any time, but, for best results, make application immediately after harvest before moth activity occurs. In areas where late fall harvested grain is susceptible to infestation because of low temperatures, application can be delayed until late summer or early spring before moth activity begins. Control for a full storage season should normally be expected. However, repeat application if infestation occurs.

This treatment controls the moth larvae if an infestation is present when the grain is treated, moth emergence may continue for several days. If immediate control of severe infestation is desired, grain should be fumigated prior to application of this treatment. DIPEL 32B will not control weevils or other beetles.

DIPEL 32B is exempt from tolerance restrictions and the treated grain can be used at any time after treatment for any use.
*For commodities stored in an airtight container, increase depth of treatment according to the habit of the pest.

DIPEL 32B for Fruits, Nuts, Trees, Ornamentals

Crop	Post	Pints/100 Gallons*	Pests/100 Gallons* (Ground Equipment)	Pests/100 Gallons* (Aerial Application)
Grapes, Small Fruits, Cane and Bush Berries	Grape Leaf Skeletonizer (ground only)	1 1/2 to 2		
	Grape Leaf Folder	1 to 2		
	Achrois Sphacelator (Omnivorous)	1 to 2		
	Soft Scale Comstock (ground only)	1 to 2		
	Omnivorous Leafroller (ground only)	1 to 2		
Stone Fruits	Carborane	1 to 2		
	Cyprinid Moth	1 to 2		
	Variegated Leafroller	1 to 2		
	Red-banded Leafroller	1 to 2		
	Tufted Apple Budmoth	1 to 2		
Citrus	Florida Leafminer	1 to 2		
	Dangler	1 to 2		
	Leafminer	1 to 2		
	Leafminer	1 to 2		
	Leafminer	1 to 2		
Forest Shade Trees and Ornamentals	Cypress Moth	1 to 2		
	Bugworm	1 to 2		
	Red-banded Caterpillar	1 to 2		
	Spring & Fall Caterpillars	1 to 2		
	Fall Webworm	1 to 2		
	Elm Spanworm	1 to 2		
	Tom Caterpillar	1 to 2		
	Calligrapha Oak Moth	1 to 2		
	Pine Sawfly	2		
	Spiny Budsucker	2		
	Saddle Horn Caterpillar	1 to 2		
	Dangler for Tobacco Moth	2		
	White Pine Sawfly	1 to 2		
	White Pine Sawfly	1 to 2		
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White Pine Sawfly	1 to 2			

*DIPEL 32B application rate may be varied depending on coverage. For most insects in the application amount is 1 to 2 pints of water.
**If DIPEL application is in 10 to 100 gallons of water depending on type and density of trees. For best results spray systems which deliver a spray rate of 200 to 400 G.P.M. should be used.
***Use 400-450 gallons of water for each 100 bushels of stored grain in pest management programs.
****Use 200 to 400 gallons of water.
*****Use at least 250 gallons of water.
*****Use against populations below 25 larvae per 100 bushels. Use a minimum of 5 gallons of water per 100 bushels.

PEANUTS

Post	Rate
Indian Meal Moth	1 1/2 pints/100 bu*
Almond Moth	1 1/2 pints/100 bu*

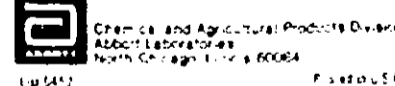
*Apply this rate to the top four to eight feet of nuts when filling the warehouse.
To prevent and control these pests, spray an even coating of DIPEL 32B on the farmer stock peanuts while filling the warehouse. To make the spray solution, mix 16 pints DIPEL 32B per 5 gallons of water. Apply to 10 tons of commodity. Do not pre-mix more spray solution than will be used within 12 hours. Keep the spray equipment agitated during application and use pressure and suction sufficient to handle this mixture.
Before filling the warehouse clean thoroughly then spray interior of the facility with a DIPEL 32B suspension at the rate of 2 pints DIPEL 32B per 100 gallons of water. Spray enough suspension to wet all cracks and crevices.
For bagged peanuts treat the whole mass of commodity at the rate indicated above.

PIPE CURED TOBACCO

Post	Rate
Tobacco Moth	7 to 10 ml/100 lbs*

*Apply 0.7 ounce (approximately 4 teaspoonful) of DIPEL 32B in one quart of water per 100 pounds of tobacco in a 400 sq. ft. spray. Avoid over-spraying. Tobacco should have just enough moisture to be handled without shattering at the time of application.
Tobacco to be stored up to Twelve Months.
Spray tobacco leaves as the tobacco is being banded from the curing barn. For tobacco on sticks treat both sides of leaves.
Stored Tobacco
For tobacco which is to be carried over tobacco at market or to fill up tobacco and spray leaves.
For tobacco that has been stored over three weeks, apply a first layer of material on promptly open burlap, spray leaves leaves then burlap.
Treatment of Storage Bins.
If tobacco has been treated or is going to be treated, treatment of the floors and walls may be made to aid in control. Sweep out the area, especially cracks and corners, and all of the loose tobacco pieces which the moth might breed. Make a spray in a tank containing 2 ml. DIPEL 32B per 2 1/2 gallons of water. Apply this at a rate of 1/2 gallon per 1000 sq. ft. of surface area. Be sure to spray into cracks and between floorboards.

NOTICE TO USER
Do not allow to be used in excess or applied in the vicinity of the user or otherwise concerning use of this product other than as indicated on the label. Use assumes all risks of use, storage or handling not in accordance with accompanying directions.
*Funds: Sales on License. Health and Safety of Company of other than AGRI Laboratories.



**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
(and Domestic Animals)**

CAUTION

Avoid contact with skin, eyes or clothing. In case of contact immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

Beneficial Insects

Honeybees foraging treated areas are not harmed by Dipel 32B use.

Dipel 32B does not interrupt the activities of beneficial and predacious arthropods in pest management programs.

Directions for Use

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

Refer to Package Enclosure for crops, rates and general directions.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE: Keep containers tightly closed when not in use. At temperatures less than 0°F and greater than 100°F, Dipel 32B should be stored under cover.

PESTICIDE DISPOSAL: Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, state, or local procedures.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Puncture and dispose of in a sanitary landfill, or by other approved state and local procedures.


NOTICE TO USER

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List No. 5452

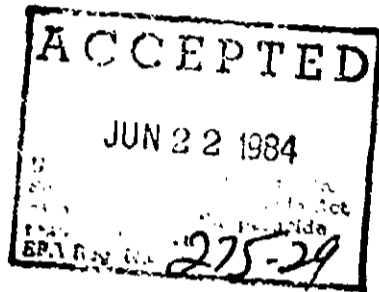
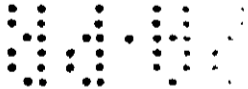
EPA Registration No. 275-29

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

Lot No.

01 0000-2 111



Dipel 32B
WORM KILLER

**AQUEOUS SUSPENSION
BIOLOGICAL INSECTICIDE**

Active Ingredient:

**Bacillus thuringiensis, var.
kurstaki**, 8,000 International Units of
Potency per mg (32 billion
International Units per gallon) ... 1.6%
Inert Ingredients 98.4%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

BEST DOCUMENT AVAILABLE

NET CONTENTS: 55 GALLONS

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HAZARDS TO HUMANS
(and Domestic Animals)**

CAUTION

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Beneficial Insects

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STORAGE: Keep containers tightly closed when not in use. At temperatures less than 0°F and greater than 100°F, Dipel 32B should be stored under cover.

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CONTAINER DISPOSAL: Triple rinse (or equivalent).

NOTICE TO USER

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E.P.A. Registration No. 275-29

E.P.A. Est. No. 33762-1A-1



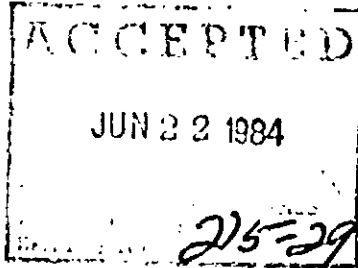
Chemical and Agricultural
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Abbott Laboratories
North Chicago, IL 60064

Lot No.

01 0000 2 91



BEST DOCUMENT AVAILABLE



DIPEL 32B
WORM KILLER

**AQUEOUS SUSPENSION
BIOLOGICAL INSECTICIDE**

Active Ingredient

**Bacillus thuringiensis, var.
kurstaki**, 8,000 International Units of
Potency per mg (32 billion
International Units per gallon) ... 1.6%
Inert Ingredients 98.4%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

NET CONTENTS: BULK TANK CAR/TRUCK