dipel 6 L

WORM KILLER

EMULSIFIABLE SUSPENSION
BIOLOGICAL INSECTICIDE

Active Ingredient:

Bacillus thuringiensis, var. kurstaki, 13,200 International Units of Potency per mg (48 billion International Units per gallon) . . . 2.6%

Inert Ingredients 97.4%

KEEP OUT OF REACH OF CHILDREN
CAUTION

E.P.A. Registration No. 275-48
E.P.A. Est. No. 33762-IA-1

275-48

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

Honey bees foraging treated areas are not harmed by DIPEL 6L use.

DIPEL 6L 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.

STORAGE AND DISPOSAL

See Container label.

Days to harvest: There are no restrictions on applying DIPEL 6L up to the time of harvest.

Sites: DIPEL 6L may be used for any labeled pest in both field and greenhouse uses.

Bacillus thuringiensis is exempt from the requirement of a tolerance on all raw agricultural commodities when applied to growing crops or after harvest in accordance with good agricultural practices.

For Smaller Spray Volumes

If Rate is	Use This Amount Per Gallon
½ pt. acre or 100 gals	½ tsp
1 pt. acre or 100 gals	1 tsp
1 qt. acre or 100 gals	2 tsp
2 qts. acre or 100 gals	1 oz

DIRECTIONS FOR USE

DIPEL 6L is a highly selective insecticide for use against listed caterpillars (larvae) of lepidopterous insects. Close scouting and early attention to infestations is highly recommended. Larvae must eat deposits of DIPEL 6L 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 6L 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 spreader sticker which has been approved for use on growing and harvested crops ~~should~~ may be added for hard to wet crops such as cole crops or to improve weather fastness of the spray deposits.

After eating a lethal dose of DIPEL 6L, larvae stop feeding within the hour and will die within several days. Dying larvae move slowly, discolor, then shrivel, blacken and die.

DIPEL 6L 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 specified, use at least 2 gallons of water by air, except in the far west, 5 to 10 gallons in the usual manner.~~ Fill the mix tank or plane hopper with ~~at least ½~~ the desired quantity of water. Start the mechanical or hydraulic agitation to provide moderate circulation before adding DIPEL 6L. Always add the sticker to the water prior to the addition of DIPEL 6L. Add the desired volume of DIPEL 6L to the tank or plane hopper and continue circulation. ~~Add the remainder of water to the final level.~~ Include rinse water from containers. Never add DIPEL 6L to the mix tank before introducing ~~at least ½~~ the desired quantity of water. Maintain the suspension while loading and spraying. Do not mix more DIPEL 6L than can be used in a ~~72~~ 144 hour period. **CAUTION:** Rinse and flush spray equipment thoroughly following each use.

CAUTION

DIPEL 6L should not be used in combination with Comite,® Bravo,® Difolatan, Captan or Dyrene.®

The effects of combining DIPEL 6L with fungicides (other than benomyl, maneb or mancozeb) and miticides (other than chlordimeform) are unknown.

APPLICATION RATE

Crop	Pest	Pints/Acre
Cole Crops*	Loopers	½ to 1½
Celery	Imported Cabbageworm	½ to 2½
Lettuce	Diamondback Moth	½ to 1
Spinach		

*Direct spray by air, plane or other transport, or other means before 6 weeks with field. Use more than 25 gallons of water per acre by ground and 10 gallons of water per acre by air.

Soybeans	Loopers	½ to 1½
Peanuts	Green Cloverworm	½ to 2½
Peas	Soybean Caterpillar	½ to 1
	Podworm (Helicoverpa zea)*	½ to 1½
	Armyworm*	1½ to 2½

*DIPEL 6L suppresses early instar larvae of Podworm and Armyworm when populations are light to moderate.

Tobacco	Tobacco Budworm	½
	Hornworm	½ to 2½
	Loopers	½

Consult with DIPEL 6L manufacturer's technical representative.

Tomatoes*	Loopers	½ to 1½
	Tomato Fruitworm*	1½
	Armyworm (Armyworm)	1½
	Southern Armyworm	½ to 1½
	Hornworm	½ to 2½
	Armyworm**	1½ to 2½

[illegible]

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]

[illegible] 2 qts. water per acre [illegible]

BEST DOCUMENT AVAILABLE

EPA Reg. No. 27[illegible]-48
DIPEL 6L
Draft submitted [illegible]
Agency approved 10/20/83

Crop	Pest	Pints/Acre
Cotton	[illegible]	[illegible]
	[illegible]	[illegible]
	[illegible]	[illegible]

[illegible]

Once beneficial insects are no longer a factor DIPEL 6L at 1 qt/acre may be tank mixed with methyl parathion* or Nudrin® 1 or 2.25 lb. 6.75 lbs AI per acre [illegible] moderate infestations of early instar larvae. Observe pre-harvest intervals or belt lead label restrictions for methyl parathion and [illegible]. Methomyl will likely cause reddening of cotton foliage. Discontinue this tank mix if reddening becomes excessive.

Before using any tank mix read the product labels for all mixes, commercial and usage conditions. Chlordimeform is restricted to aerial application and to stores where registered.

**Full plant coverage needed.

*The mixture of B.t. with chlordimeform for [illegible] the [illegible] of Top-dipterous larvae on plants is covered by Abbott US patent 3,937,813.

Avocados	[illegible]	[illegible]
	[illegible]	[illegible]
	[illegible]	
	[illegible]	

Use a minimum of 200 gallons water per acre by ground rig or 10 gallons by aircraft. Maximum of two applications per season.

CROP SEED

Pest	Rate
Indian Meal Moth	1 pt/100 lbs
[illegible]	
Mix thoroughly prior to bagging	

DIPEL 6L for Trees and Shrubs

Crop	Pest	Pints/100 Gallons* (Ground Equipment)	Pints/Acre (Aerial** Application)
[illegible]	[illegible]	[illegible] ~~1~~ 3/3	[illegible] ~~1~~ 3/3
[illegible]	[illegible]	[illegible]	[illegible]
Trees and Shrubs	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible] ~~1~~ 2/3	[illegible] ~~1~~ 3/3
	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	
	[illegible]	[illegible]	
	[illegible]	[illegible]	-
	[illegible]	[illegible]	[illegible]
	Satin Moth Caterpillar	[illegible]	

*Water [illegible] rate for foliar [illegible] spraying may be varied depending on coverage [illegible] the applicator's amount [illegible] up to 10 gallons of water.

**For aerial application on [illegible] use up to 10 gallons of water depending on type and density of trees. For best results spray over terrain which delivers droplet size of 200 microns or less should be used. DIPEL 6L should always be mixed with at least an equal amount of water for diluted applications.

[illegible] DIPEL 6L may be sprayed undiluted for the control of spruce budworm.

BEST DOCUMENT AVAILABLE

NOTICE TO USER

Seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning 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.

*[illegible] Abbott Laboratories

[illegible]

[illegible]