

27-FEB-1998

(LABEL)

Dipel* 132

Emulsifiable Suspension

Biological Insecticide
(*Bacillus thuringiensis*, Berliner, var. *Kurstaki*)

RESTRICTED

GUARANTEE:

Bacillus thuringiensis, Berliner, var. *kurstaki* ... 13,200
International Units of potency per mg (equivalent to 12.7
billion International Units of potency per litre)

REGISTRATION NO. 17954 PEST CONTROL PRODUCTS ACT

CAUTION

Chemical and Agricultural Products Division
Abbott Laboratories, Limited
Montréal, Canada H3C 3K6

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. Do not spray suspension into lakes, streams or ponds. Do not contaminate any body of water by cleansing of equipment or dispensing of wastes. Store in a cool place.

KEEP OUT OF REACH OF CHILDREN

READ THE LABEL AND THE ATTACHED BROCHURE BEFORE USING

NOTICE TO USER: RESTRICTED. This control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use a control product under unsafe conditions.

BENEFICIAL INSECTS: Honey bees foraging treated areas are not harmed by DIPEL 132 use. DIPEL 132 does not interrupt the activities of beneficial and predacious arthropods in pest management programs.

FIRST AID INSTRUCTIONS:

If in eyes: Flush with plenty of water. If on skin: Wash skin with plenty of soap and water. Obtain medical attention if irritation occurs.

DISPOSAL:

Rinse the emptied container thoroughly with water and add the rinsings to the spray mixture in the tank. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on the disposal of unused, unwanted product and the cleanup of spills, contact the Provincial Regulatory Agency or the Manufacturer.

LIMITATION OF WARRANTY:

Seller's guarantee shall be limited to the terms set out on the label and subject thereto. The buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

(PACKAGE INSERT)

NET CONTENTS: 2 X 9 L

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NATURE OF RESTRICTION: This product is to be used only in the manner authorized; consult local pesticide regulatory authorities about use permits which may be required.

DIRECTIONS FOR USE

DIPEL 132 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 132 to be affected. Always follow these directions:

- Roll drums prior to removal of contents.
- Treat when larvae are young (early instars) before extensive damage occurs.
- Larvae must be actively feeding on treated, exposed plant parts.
- Thorough spray coverage is needed to provide a uniform deposit of DIPEL 132 at the site of larval feeding.
- For Spruce Budworm control treat when majority of buds have flushed or shed bud caps.
- Do not mix this product with any materials other than those specified on this label.
- 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 damage occurs.

After eating a lethal dose of DIPEL 132, larvae stop feeding within the hour, and will die within several days. Dying larvae move slowly, discolor, then shrivel, blacken and die.

DIPEL 132 should be applied by conventional ground and aerial equipment with quantities of water sufficient to provide thorough coverage of infested plant parts. The amount of water needed per hectare will depend on weather, spray equipment, and local experience. Fill the mix tank or plane hopper with at least 3/4 the desired quantity of water. Start the mechanical or hydraulic agitation to provide moderate circulation before adding DIPEL

132. Add the desired volume of DIPEL 132 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 132 TO THE MIX TANK BEFORE INTRODUCING AT LEAST 3/4 THE DESIRED QUANTITY OF WATER. Maintain the suspension while loading and spraying.

Federal or Provincial officials may recommend inclusion of either an oil- or water-soluble dye for purposes of recording spray deposit. Before using this product, consult regional Canadian Forestry Service office or provincial forest authority for information on timing and method of application.

Aerial Application Urban Areas: DIPEL 132 may be used for aerial application of urban areas for treatment or residential, industrial and municipal recreational areas (including parks, parklands, vacant lots, shelter-belts and rights of way under municipal jurisdiction) by fixed wing or rotary (helicopter) aircraft. Consult regional office of Transport Canada regarding are regulations.

RESTRICTED USES (FORESTRY AND URBAN AREAS)

MAXIMUM AERIAL APPLICATION RATES PER TREATMENT

Pest	L/V* (aerial application)	BIU/ha	
Forests, woodlands, tree plantations, tree nurseries, ornamental and shade trees	Tent Caterpillars**	0.5-1.0	7-13
	Gypsy Moth	1.6-2.4	20-30
	Spruce Budworms	1.2-2.4	15-30
	Jackpine Budworms	2.4	30
	Bagworm	1.0-2.4	12-30
	Spring & Fall Webworm	0.5-1.7	6-21
	Fall Cankerworm	0.7-1.7	8-21
	Elm Spanworm	0.7-2.4	8-30

* Mix with a minimum ratio of 40/60 with water up to 10L per hectare depending on type and density of trees. For Spruce Budworms, Dipel 132 may be applied undiluted. For ultra low and low volume spraying, an average droplet size of 50 to 200 microns is recommended.

** If DIPEL 132 is applied to late larval instars and/or extremely heavy populations, one application of DIPEL 132 at 1.7 L/ha is recommended.

NON-RESTRICTED USES

MAXIMUM GROUND APPLICATION RATES PER TREATMENT - Thorough coverage is essential for good control. Apply to upper and lower portions of the leaves to run off. Repeat applications will be necessary if a new hatch occurs.

	Pest	L/V*** (ground application)	BIU/ha
Tree plantations, tree nurseries, ornamental and shade trees	Tent Caterpillars	0.5-1.0	7-13
	Gypsy Moths	1.6-2.4	20-30
	Spruce Budworms	1.2-2.4	15-30
	Jackpine Budworms	2.4	30
	Bagworm	1.0-2.4	12-30
	Spring & Fall Cankerworm	0.5-1.7	6-21
	Fall Cankerworm	0.7-1.7	8-21
	Elm Spanworm	0.7-2.4	8-30

*** For hydraulic sprayer, apply the specified amount (litres) in 400 L to 1500 L of water per hectare. For mist sprayers, apply the specified amount (litres) in 100 L to 150 L of water per hectare.

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