

95.03.21

Biological Insecticide

DIPEL* 48AF

For Forest, Woodlands, and Urban Use

Aqueous Flowable

RESTRICTED

GUARANTEE:

Bacillus thuringiensis, var.
kurstaki ... 10,750 International Units of
potency per mg (equivalent to 12.7 billion
International Units of potency per litre)

REGISTRATION NO. 20861 PEST CONTROL PRODUCTS ACT

KEEP OUT OF REACH OF CHILDREN

READ LABEL AND BROCHURE BEFORE USING

Date of Manufacture:

LOT NO.

NET CONTENTS: 209 Litres

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

5529-13-02
04-0732/R4

Manufactured by: Abbott Laboratories
Chemical and Agricultural Products Division
1401 Sheridan Road
North Chicago, IL 60064, USA

Canadian Agent: Abbott Laboratories, Limited
P.O. Box 6150, Station A
Montreal, Quebec, Canada H3C 3K6

Biological Insecticide

DIPEL* 48AF

Aqueous Flowable

RESTRICTED

GUARANTEE:

Bacillus thuringiensis, var.
kurstaki ... 10,750 International Units of
potency per mg (equivalent to 12.7 billion
International Units of potency per litre)

REGISTRATION NO. 20861 PEST CONTROL PRODUCTS ACT

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ LABEL AND 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.

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 48AF 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 48AF to be affected. Always follow these directions:

- Roll drums prior to removal of contents. For bulk tankers, circulate the volume of the contents once prior to offloading.
- 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 48AF at the site of larval feeding.

- For Spruce Budworm control, treat when shoot development is sufficient to allow good deposit on emerging needles.
- For Gypsy Moth control, an extended egg hatch may require more than one application at 3 to 14 day intervals. To control Gypsy Moth with a single spray, make the treatment when egg hatch is essentially complete but before damage occurs.
- Do not mix this product with any materials other than those specified on this label.
- Timing and number of applications sufficient to maintain control will depend on plant growth rate and caterpillar activity.
- If DiPel 48AF is applied to late larval instars and/or extremely heavy populations, use higher label rates or consider additional applications.
- Avoid application if significant rainfall is expected within 6 hours of application.

DiPel 48AF should be applied by aerial equipment undiluted. Dilute with minimal quantities of water only when required to improve deposit. Fill the mix tank or plane hopper with the desired quantity of water. Start the mechanical or hydraulic agitation to provide moderate circulation before adding DiPel 48AF. Add the required volume of DiPel 48AF to the mix tank or plane hopper and agitate until uniformly suspended. Include rinse water from containers. Mild agitation is sufficient to maintain mixture suspension during loading and spraying. Do not mix more DiPel 48AF than can be used in a 72 hour period. If using undiluted product, continual mixing or agitation is not necessary and should be avoided.

Federal or Provincial officials may recommend inclusion of a water-soluble dye for purposes of recording spray deposit.

NOTE: Before using this product, consult regional Forests Canada office or provincial forest authority for information on timing and method of application.

Aerial Application Urban Areas: DiPel 48AF may be used for aerial application to urban areas for treatment of residential; industrial; and recreational sites and areas under municipal jurisdiction. Consult regional office of Transport Canada regarding air regulations.

APPLICATION RATES PER TREATMENT		
Pest	Application Timing	L/ha BIU's/ha
Tent Caterpillars	1st-3rd instars; 40-50% leaf expansion	0.9-1.6 12-20
Gypsy Moth	1st-3rd instars; 40-50% leaf expansion	1.6-4.0 20-50

Spruce Budworm	Peak 4th instar; shoots flushed; budcaps shed	1.6-2.4 20-30
Western Spruce Budworm	Peak 4th instar; shoots flushed; budcaps shed	2.4-3.1 30-40

DiPel 48AF may be applied undiluted. For undiluted application, droplet size recommendations as follows: 30-80 microns for coniferous foliage and 50 to 150 microns for broadleaf foliage.

PRECAUTIONS:

Avoid contact with skin, eyes or clothing. This product may cause dermal sensitization. In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

STORAGE:

Store at temperatures between 0° and 25°C. Cooler storage temperatures are preferred. Keep container tightly closed.

DISPOSAL:

Rinse the emptied container thoroughly 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 or recycling. Dispose of the empty container, equipment washings and tank rinsate in accordance with provincial requirements. For information on the disposal of unused, unwanted product and the cleanup of spills, contact the regional office of Conservation and Protection, Environment Canada.

NOTICE TO BUYER:

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.

*TM

This label transcript service is offered by the Pest Management Regulatory Agency to provide efficient searching for label information. This service and this information do not replace the official hard-copy label. The PMRA does not provide any guarantee or assurance that the information obtained through this service is accurate, current or correct, and is therefore not liable for any loss resulting, directly

or indirectly, from reliance upon this service.
+))