

96.05.16

FORAY(R) 76B

Low Volume Aqueous Concentrate

For Forests and Woodlands

GUARANTEE: Active Ingredient: *Bacillus thuringiensis* sub-species *kurstaki*. Potency: 16,700 International Units per mg, equivalent to 20 Billion International Units (BIU) per litre.

REGISTRATION NUMBER 22403
PEST CONTROL PRODUCTS ACT

RESTRICTED

READ THE LABEL BEFORE USING

Net contents (Litres)

Batch No.

Registrant and Distributor:
Chemical and Agricultural Products Division
Abbott Laboratories
1401 Sheridan Road
North Chicago, IL 60064-4000

Canadian Agent:
Chemical and Agricultural Products Division
Abbott Laboratories Limited
Montreal, Canada H3C 3K6

NOTICE TO USER:

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:

Mode of Action: Foray 76B contains the spores and endotoxin crystals of *Bacillus thuringiensis* sub-species *kurstaki*. Foray 76B is highly specific to some lepidopteran larvae. It is a stomach poison only and therefore must be ingested by the larvae to be effective. After ingestion of a sufficient dose, feeding ceases and death will follow in 2-5 days.

General Instructions: Treat larvae when they are young as Foray 76B is more active on young larvae and less damage will have been caused by early instar larval feeding.

Larvae must be feeding actively when treatments are made since ingestion is necessary for effective results.

The direct target for application is the foliage, buds, and flowers (objects of larval feeding) and thorough, well distributed spray coverage is necessary to assure that the feeding larvae ingest a toxic dose of Foray 76B. Avoid application when significant rainfall is imminent.

Storing and Mixing: Store at temperatures between 0' and 25'C. To optimize shelf life, storage at 15'C or less is recommended. Store container upright and keep tightly closed when not in use. After extended storage, shake or stir contents to assure a uniform suspension. Foray 76B does not settle out rapidly.

Foray 76B is a water based formulation which may be applied undiluted or diluted with water. Dilute with minimal quantities of water only when required to improve deposit. Use tank mixes of Foray 76B and water within 72 hours of mixing. Recirculate tank mixes before loading and/or application. Avoid water immiscible solvents. Before using this product consult with the regional Canadian Forestry Service, provincial forest authority or Abbott Laboratories representative for information on timing and method of application.

Application, Aerial: Undiluted applications are recommended for Eastern Spruce Budworm, Eastern Hemlock Looper, Jackpine Budworm and Gypsy Moth. Foray 76B may be used for aerial application on forests and woodlands by both fixed wing and helicopter aircraft. Consult the regional Transport Canada office regarding air regulations.

Application, Ground: Apply spray to provide thorough coverage

while minimizing runoff. Minimize dilution rates to the extent possible while maintaining sufficient volume to assure thorough coverage.

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.

DOSE RATES: AERIAL AND GROUND(1) APPLICATION:

Crop/Site	Pest	Dosage Rate of Foray 76B	
		L/hectare	BIU/hectare
Forests and Woodlands	Eastern Spruce Budworm ²	0.75*-1.5 ³	15 - 30
	Western Spruce Budworm ²	1.5 - 2.0	30 - 40
	Eastern Hemlock Looper	1.5 - 2.0	30 - 40
	Gypsy Moth ⁴	1.5 - 2.5	30 - 50
	Jackpine Budworm	1.0 - 1.5	20 - 30

- 1 For ground application, add recommended dosage rate/hectare in:
 - up to 1500 litres of water for high volume hydraulic sprayers.
 - up to 150 litres of water for mist blowers.
- 2 Treat prior to 5th instar larval development and when bud flush/shoot development is sufficient to allow good deposit on emerging needles.
- 3 For satisfactory control of Eastern Spruce Budworm at lower rates and volumes (less than or equal to 1 litre/hectare; 20 BIU/ha.), Foray 76B must be applied using enhanced atomization, in order to ensure generation of sufficient spray droplets for impingement on conifer foliage (balsam fir, black spruce). This requires use of Micronaire AU4000 atomizers, with appropriate flow rate (2L/min/head or less) and blade angle settings to ensure a minimum rotation of 9000 rpm.
- 4 Treat when larvae are in 2nd and 3rd instar and when leaf

expansion is at least 40-50%; extended egg hatches are common and often require a minimum of 2 applications for adequate control.

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN

Avoid contact with skin, eyes or clothing. In case of contact, flush eyes or skin with plenty of water. Wash thoroughly with soap and water after handling. Get medical attention if irritation persists.

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.

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.

99.05.10

SUPPLEMENTAL LABEL

For Control of White Marked Tussock Moth
(*Orgyia leacostigma intermedia*)
in Softwood Species

FORAY (R) 76B

Low Volume Aqueous Concentrate

RESTRICTED

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN

Avoid contact with skin, eyes or clothing. Wash thoroughly with

soap and water after handling.

GUARANTEE: Active Ingredient: *Bacillus thuringiensis* sub-species *kurstaki*. Potency: 16,700 International Units per mg, equivalent to 20 Billion International Units (BIU) per litre.

REGISTRATION NUMBER 22403
PEST CONTROL PRODUCTS ACT

READ THE LABEL BEFORE USING

Net contents 209 LITER

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

Canadian Agent:
Abbott Laboratories, Limited
Chemical and Agricultural Products Division
St. Laurent, Canada H3C 3K6

RESTRICTED USES

FORESTS, WOODLANDS

NOTICE TO USER:

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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.

Forestry Use: Ground/Aerial Application for sites greater than 500 ha.

Woodlands Use: Aerial Application for sites 500 ha or less.

Consult local Transport Canada office regarding air regulations for aerial applications. Foray 76B may be used for aerial application on forests and woodlands by both fixed wing and helicopter aircraft.

Undiluted applications are recommended for Eastern and Western Spruce Budworm, Gypsy Moth, Jackpine Budworm and Eastern Hemlock Looper, however, Foray 76B may be diluted with water and applied at the rates per indicated in the dose rates table. Total volume of spray material to be applied per hectare depends upon target pest, target foliage, weather, spray equipment and droplet size. Recommended droplet size spectra are from 30-80 microns for coniferous foliage and 50-150 microns for broadleaf foliage.

General Information:

Crop	Pest	Rate/Dosage Methods	Remarks
Softwood species in forests and woodlots	White marked tussock moth (<i>Orgyia leacostigma intermedia</i>)	30-50 BIU/ha (1.5-2.5 L/ha)	Two applications per year; first application at late egg hatch and again 5-7 days later; aerial application; use the higher rate for heavier infestation.

Precautions

First Aid Instructions

If in eyes: Flush eyes with plenty of water.
 If on skin: Wash thoroughly with soap and water.

Seek medical attention if irritation occurs and persists.

Storage:

Store at temperatures between 0°C and 25°C. Store container upright and keep tightly closed when not in use. After extended storage, vigorously shake or stir contents to assure a uniform

suspension. Foray 76B does not settle out rapidly.

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.

Make the empty container unsuitable for further use.

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