

97.06.04

NOVODOR

Flowable Concentrate

Biological Insecticide

For Control of Colorado Potato Beetle Larvae
on Potatoes and Tomatoes

For Elm Leaf Beetle on Elm Trees

AGRICULTURAL

GUARANTEE:

Active ingredient: *Bacillus thuringiensis* sub-species *tenebrionis*
Potency: 15,000 *Leptinotarsa* Units (LTU) per g. equivalent to
17.2 Million LTU per litre

REGISTRATION NUMBER 24895

PEST CONTROL PRODUCTS ACT

READ LABEL BEFORE USING

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, Quebec
H3C 3K6

NET CONTENTS: 10 Litres

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN.

Avoid contact with skin and eyes. When handling this product use
gloves and goggles.

Do not spray into lakes, streams, rivers or ponds. Do not contaminate any body of water by cleaning of equipment or disposal of wastes.

FIRST AID:

Wash thoroughly with soap and water after handling. In case of contact with skin or eyes, flush with plenty of water. If irritation occurs and persists, get medical attention.

STORAGE:

Keep containers tightly closed when not in use. Novodor should be stored in a cool dry place preferably below 25°C. Activity may be impaired by prolonged storage (>9mos.) at temperatures above 25°C. At the optimum storage temperature of 5°C, the shelf life is greater than 1 year. Consult the manufacturer for further information.

DISPOSAL:

Do not re-use product container. 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. Render empty container unsuitable for any additional use. For information on the disposal of unused, unwanted product and the cleanup of spills, contact the Provincial Regulatory Agency or the manufacturer.

GENERAL INFORMATION

Insects Controlled:

Novodor is a biological insecticide containing *Bacillus thuringiensis* subspecies *tenebrionis*, recommended for use against early larval stages of the Colorado Potato Beetle, *Leptinotarsa decemlineata*, and the Elm Leaf Beetle, *Pyrrhalta leutola*. Novodor is equally active on Colorado Potato Beetle larvae which are sensitive or resistant to synthetic insecticides.

The Elm Leaf Beetle is controlled using Novodor, which is recommended for use against early instar larvae. Good scouting and early application with thorough spray coverage are essential for effective foliage protection.

Mode of Action:

Due to its unique mode of action, Novodor must be ingested by the target insect larvae to be effective. Therefore, thorough

coverage of the crop to be protected is essential for best results. Ingestion by larvae causes general gut paralysis and cessation of feeding within hours. Death occurs in 1-5 days.

DIRECTIONS FOR USE:

Colorado Potato Beetle

APPLICATION TIMING:

Close scouting to determine degree of egg hatch and stage of larval development is strongly recommended. Optimum control with Novodor requires application to young larvae (newly hatched to 0.5 cm in length). INITIAL APPLICATIONS SHOULD BE TIMED TO COINCIDE WITH EARLY EGG HATCH (less than 30%). Apply when larvae are actively feeding. Applications should be followed by close scouting for signs of new larvae. Repeat applications (usually 5-7 days) as necessary to control new larvae from later egg hatches. During periods of rapid larval development, or when larval populations are extreme, higher rates of Novodor, applied at a shorter interval, may be required to maintain effective control of the larvae. Avoid application if rainfall is imminent.

Consult with recognized agricultural pest control authority or Abbott Laboratories representative regarding appropriate timing and method of application.

MIXING AND APPLICATION:

Shake or stir Novodor thoroughly before use. Fill spray or mixing tank half full of water and begin agitation. Add the recommended amount of Novodor into water while maintaining agitation. Add balance of water; when thoroughly mixed begin spraying. Diluted spray mixture should be used within 72 hours.

APPLICATION VOLUME:

Novodor may be applied with sufficient quantities of water to provide thorough coverage of all plant parts to be protected. The amount of water needed per hectare will depend upon crop plant size, weather, spray equipment, and local experience.

Use the recommended amount of Novodor in a suggested minimum of 185 litres of water per hectare.

APPLICATION RATE:

The Novodor application rate (4.0 - 8.0 L/ha) depends on the population pressure and stage of larval development.

For light to moderate populations of young larvae (newly hatched to 0.5cm in length) apply 4.0 to 7.0 litres of Novodor per hectare.

For heavy infestations of young larvae apply 5.0 - 7.0 litres of Novodor per hectare.

Use the highest rate (8.0 L/ha) for light to moderate populations in which stages of larval development are mixed.

Novodor is not effective against heavy infestations of mixed populations of younger and older larvae and/or adults. For control of these, use a registered insecticide with rapid knockdown activity.

DIRECTIONS FOR USE:

Elm Leaf Beetle

RATES OF APPLICATION:

Novodor FC to be diluted in water at dilution ratios of 1:10 to 1:20. The higher rate (1:10) may be required if insect pressure is high or population includes older instars.

TIMING OF APPLICATION:

Novodor is most effective on early instar larvae; good scouting and early application are essential for effective foliage protection; since egg hatch of ELB is often extended, two or more applications may be required; make first application at the first sign of egg hatch; timing of subsequent applications should coincide with the appearance of significant numbers of newly hatched larvae (usually 10-14 days after first application).

METHOD OF APPLICATION:

In order to ensure good coverage of treated foliage, application in a fine mist, using rotomist or mistblowers (backpack or truck-mounted) is strongly recommended. Hydraulic sprayer may not provide adequate coverage. Trees should be sprayed just until drip.

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.

NOTICE TO USER:

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

Batch No.

Date of Mfg.

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.

+))