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MAR 8 1988

Ms. Ada Breaux
Sandoz Crop Protection Corporation
Corporate Headquarters
1300 East Touhy Avenue
Des Plaines, IL 60018

Dear Ms. Breaux:

Subject: TRIDENT Biological Insecticide
EPA Registration No. 55947-131
Your Submission Dated November 14, 1988

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

Note: This approval is for the following items:

1. Addition of crops (tomatoes and eggplants).
2. Addition of alternate method of application (aerial).
3. Directions to hold diluted TRIDENT spray in tank no longer than 48 hours.
4. Minor Text Revisions.

Sincerely yours,

Phil Hutton

Phil Hutton
Product Manager (17)
Insecticide-Rodenticide Branch
Registration Division (E7505C)

Enclosure

57619:I:Nelson:C.Disk:KENCO:2/27/89:CT:VO:EK:CT

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

**TRIDENT
BIOLOGICAL INSECTICIDE**

**For Control Of Colorado Potato Beetle
on Potatoes, Tomatoes, and Eggplant**

ACTIVE INGREDIENT:

Bacillus thuringiensis variety *tenebrionis*

Potency of 3200 *tenebrionis* units/mg* 0.32%

INERT INGREDIENTS: 99.68%

TOTAL 100.00%

*Equivalent to 12.6 billion *tenebrionis* units per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS: Avoid inhalation, contact with eyes, skin, and especially open cuts or wounds.

When handling this product, wear gloves, goggles, and dust mask or equivalent nose and mouth protective covering device.

In case of contact with skin, eyes or open wounds, flush contaminated area with water. If irritation occurs and persists, get medical attention.

ENVIRONMENTAL HAZARDS: Keep out of lakes, ponds or streams. Do not contaminate water when disposing of equipment wash waters.

**EPA No. 55947-131
55947-CA-2**

NET CONTENTS:

**SANDOZ CROP PROTECTION CORPORATION
DES PLAINES, IL 60018**

ACCEPTED
with COMMENTS
EPA Letter Dated:

MAR 31 1989

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide
registered under EPA Reg. No.

TRIDENT BIOLOGICAL INSECTICIDE

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

General: Trident is a biological insecticide specific for the control of Colorado potato beetle (*Leptinotarsa decemlineata*) larvae on potatoes, tomatoes, and eggplants. Trident, while equally effective in controlling chemical-resistant populations of Colorado potato beetles, is not harmful to beneficial insects.

Initiate Trident application as soon as eggs begin to hatch. Trident is most effective on young Colorado potato beetle larvae, in the first and second instars or up to 1/4 inch in length. Trident attacks the larval gut and must be ingested by the insect to be effective. Thorough plant coverage is essential for best results. After eating Trident, larvae stop feeding within a few hours and die within 2 - 4 days.

Since the active ingredient, Bacillus thuringiensis, is exempt from tolerance requirements, Trident may be applied up to the day of harvest.

MIXING: Always shake or stir Trident thoroughly before use. Add recommended amount of Trident to 3/4 volume of required spray before filling tank. Maintain agitation. Do not allow diluted sprays to remain in the tank for more than 48 hours. Trident is formulated to provide desirable coverage and adherence to leaf surfaces. Additional adjuvants, spreaders, or stickers may be added to improve product performance, especially under heavy dew or rainy conditions. Combinations with commonly used insecticides, fungicides or other spray tank adjuvants are generally not deleterious to Trident if the mix is used promptly. Before mixing in the spray tank, it is advisable to test physical compatibility by mixing all components in a small container in proportionate quantities.

APPLICATION:

VOLUME: For ground equipment use the recommended amount of Trident in a minimum of 20 gallons of water per acre. For application by air, use the recommended rate of Trident in a minimum of 3 gallons of water per acre. Thorough coverage of all foliage is essential for good Colorado potato beetle control and dictates the minimum volume necessary.

RATE: With ground equipment, apply 3 to 6 quarts per acre of Trident for control of young larval populations of Colorado potato beetles, hatchling to 1/4 inch in length. Use the 3 quart per acre rate only when light, uniform populations of larvae are present. For aerial application, use Trident at 4 to 6 quarts per acre. Use the higher rate against heavy Colorado potato beetle infestations or where it is difficult to get good coverage. Reapply as necessary under a pest management program that includes close scouting. In periods of heavy egg hatching, the application interval should be shortened to 4 to 5 days.

Early morning application of Trident may enhance Colorado potato beetle control.

SPECIAL INSTRUCTIONS: Addition of a spreader sticker, such as pinolene to Trident improves control of young beetle larvae.

Trident is most effective against young larvae. Early application is essential for maximum effect. When infestations of older larval Colorado potato beetle occur, use an effective contact insecticide with rapid knockdown activity.

Trident will not provide control of potato insect pests other than Colorado potato beetle. For other pests use an appropriately labeled insecticide to achieve control.

STORAGE AND DISPOSAL:

Do not contaminate water, feed or food by storage or disposal.

Storage: Store in a cool place. Activity may be impaired by storage at temperatures above 90-F. Do not contaminate water, food or feed by storage or disposal.

Pesticide Disposal: Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to federal, state or local procedures.

Container Disposal: Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

LIMITED WARRANTY AND LIABILITY:

Notice: Read this Limited Warranty and Liability before buying or using this product. If terms are not acceptable, return it at once, unopened.

It is critical that this product be used and mixed only as specified on the label. The laws of the State may make some or all of this paragraph inapplicable or may give you rights in addition to your rights hereunder. Except to the extent prohibited by applicable law, the exclusive remedy of the user or

buyer and the limit of liability of this Company or any other Seller for any and all losses, personal injuries or damages resulting from the use of this product, shall be the purchase price paid by the user or buyer for the quantity of product involved. Except to the extent prohibited by State Law, there is no warranty, and this Company and other Sellers disclaim all liability for losses, personal injury or damages: (i) arising from any use of this product in a manner or for a purpose not recommended in its label directions, or from mixing this product before use with any substance except as recommended by the product's label; (ii) arising from handling or storage in violation of label instructions; (iii) for all indirect, special or consequential damages; (iv) when not reported to this Company within one year of discovery; and (v) arising from product not used within the label-designated shelf life or two years from the date of purchase, whichever occurs first. There are no implied warranties and no warranties of merchantability or fitness.