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# Trident®

## BIOLOGICAL INSECTICIDE

For Control of Colorado Potato Beetle on Potatoes, Tomatoes, and Eggplant  
For Control of Elm Leaf Beetle in Elm Trees

 CAN BE USED IN ORGANIC PRODUCTION

### ACTIVE INGREDIENT:

*Bacillus thuringiensis* subspecies *tenebrionis* strain SA-10  
fermentation solids, spores, and insecticidal toxins\* ..... 14.32%

**OTHER INGREDIENTS:** ..... 85.68%

**TOTAL:** ..... 100.00%

\*Potency: at least 14.2 billion *Tenebrionis* Units/gal of product

The percentage active ingredient does not indicate product performance and potency measurements are not federally standardized.



**Net Contents:  
2.5 gallons**

EPA Reg. No.: 70051-120  
EPA Est. No.: 70051-CA-001

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

Refer to inside of label booklet for additional precautionary information and  
Directions for Use including First Aid and Storage and Disposal.

### FIRST AID

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Hot Line Number: 1-800-255-3924.

Lot No.:

Certis USA, LLC  
9145 Guilford Road  
Suite 175  
Columbia, MD 21046



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Trident is a registered trademark  
of Certis USA, LLC

103116

JOB 122070

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### **PRECAUTIONARY STATEMENTS**

#### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS—**

**CAUTION:** Harmful if inhaled. Avoid breathing spray mist. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Harmful if absorbed through skin. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

#### **Personal Protective Equipment:**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Protective eyewear
- Waterproof gloves
- Shoes plus socks

Mixer/loaders and applicators must wear and use a NIOSH approved particulate respirator with any N, R, or P filter with NIOSH approval number prefix TC-84A (if tank-mixing with any oil-based adjuvants, spreaders, or spreader/stickers, use only R or P filters); or

a NIOSH approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C. (Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.)

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### **User Safety Recommendations:**

Users should:

- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determines the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

#### **ENVIRONMENTAL HAZARDS:**

This product may be toxic to bees and other pollinating insects exposed to direct treatment. Do not apply this product while bees or other pollinating insects are actively visiting the treatment area.

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements

of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

### DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box apply to uses of this product that are covered by the Worker Protection Standard.

*(continued)*

### AGRICULTURAL USE REQUIREMENTS (cont.)

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Protective eyewear
- Waterproof gloves
- Shoes plus socks

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter treated areas without protective clothing until sprays have dried.

### Use Restrictions

Do not apply this product through any type of irrigation system.

### GENERAL INFORMATION:

Trident is a biological insecticide specific for the control of Colorado potato beetle (*Leptinotarsa decemlineata*) larvae on potatoes, tomatoes, and eggplants, and larvae of the elm leaf beetle (*Xanthogaleruca luteola*, formerly *Pyrrahalta luteola*) on elm trees. Trident is effective against Colorado potato beetles that are resistant to chemical insecticides. It can be tank mixed with chemical insecticides to improve control of Colorado potato beetles that are resistant to the chemical insecticide.

Initiate Trident application as soon as eggs begin to hatch. Trident is most effective on young larvae, in the first and second instars or up to ¼ 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.

Reapply every 7-14 days as necessary to maintain control during periods when larvae are present, as part of a pest management program that includes close scouting. During periods of heavy infestation and extended egg hatch, reapply every 4-5 days.

If infestation consists mainly of older larvae and adults, use a contact insecticide with rapid knock-down activity that is labeled for such use.

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

#### **APPLICATION INSTRUCTIONS**

**Mixing:** Always shake or stir Trident thoroughly before use. Add the specified amount of Trident to ¾ volume of required spray mix before filling the tank. Mix well, maintaining 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.

Adjuvants, spreaders, or spreader/stickers may be added to the spray mix before filling the tank to improve product performance, especially under heavy dew or rainy conditions. Do not use spreading agents, (especially silicone-based spreaders), which may interfere with uniform adhesion of Trident to plant surfaces.

Trident can be tank mixed with chemical insecticides to improve control of insecticide resistant Colorado potato beetle larvae. Do not mix Trident with other

insecticides unless allowed in the label instructions for the other product (s). Always follow the most restrictive label instructions for components of such tank mixes.

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, test physical compatibility by mixing all components in a small container in the same proportions to be used in the spray mix.

#### **Application Rates (by Volume):**

For ground application: use 3 to 6 quarts of Trident per acre, in a minimum spray volume of 20 gallons of water per acre. Use the 3 quart per acre rate only when light populations of larvae of uniform age/size are present.

For aerial application: use 4 to 6 quarts of Trident per acre, in a minimum spray volume of 3 gallons of water per acre. Use the higher rate against heavy infestations or where it is difficult to get good coverage.

## STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in a cool, dry area. Activity may be impaired by storage at temperatures above 90°F.

**Pesticide Disposal:** Wastes resulting from this product must be disposed on on-site or at an approved waste disposal facility.

**Container Handling:** Non-refillable container. Do not reuse or refill this container.

*-for containers equal to or less than 5.0 gallons-*

Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

*-for containers greater than 5 gallons-*

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## Warranty

Certis USA, LLC warrants that the material contained herein conforms to the description on the label and is reasonably fit for the purposes referred to in the directions for use. Timing and method of application, weather, watering practices, nature of soil, the insect problem, condition of the crop, incompatibility with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the seller. To the extent consistent with applicable law, buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herein. NO OTHER EXPRESS OR IMPLIED WARRANTY OF THE FITNESS OR MERCHANTABILITY IS MADE.

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**CERTIS**

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103116

PF-122070

# PROOF

## THIS PROOF IS TO BE CHECKED FOR ACCURACY

Please review and approve **Text, Spelling, Copy Placement, Size, Shape, Colors** and **Dieline**.

**Authorized signature** accepts responsibility for accuracy of all copy, color break and artwork. Cimarron Label is not liable for any discrepancies subsequently identified.

**PLEASE NOTE:** Due to color variance between printers/monitors, the colors represented by this proof cannot be deemed accurate. Please refer to a color matching system such as the Pantone Matching System for a truer representation of spot colors.

**THIS PROOF IS NOT ACCURATE FOR COLOR-MATCH.**






*Dieline does not print.*

 **Cimarron Label**

Experts in Extended Text Labeling

4201 North Westport Ave. • Sioux Falls, SD 57107

Phone: (605) 978-0451 • Fax: (605) 978-0463

DATE	JOB NUMBER	CUSTOMER
11/8/16	122070	Certis
LABEL SIZE	LEAFLET FOLDED SIZE	LEAFLET FLAT SIZE
5.125" X 6.0"	5.125" X 5.125"	5.125" X 15.1875"
LABEL COLORS	LEAFLET "OUT" COLORS	LEAFLET "IN" COLORS
 BLK	 BLK  3005  382	 BLK
PATTERN VARNISH: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		

Form: CS 006L - 11/8/2011

**ARTWORK IS APPROVED**

**REVISED PROOF NEEDED**

**WE CANNOT PROCESS  
THIS ORDER WITHOUT AN  
AUTHORIZED SIGNATURE**

Signed \_\_\_\_\_ Date \_\_\_\_\_