

CORN ROOTWORM AND CUCUMBER BEETLES *Diabrotica* spp.



CIDETRAK[®] D GUSTATORY STIMULANT TECHNICAL BULLETIN

General Information:

CIDETRAK[®] D is a gustatory stimulant for corn rootworm and cucumber beetles. It has no insecticidal properties of its own. This stimulant relies on the compulsive feeding behavior by adult *Diabrotica* spp. on cucurbit bitters, a natural component of buffalo gourd. When mixed with stomach poison insecticides, CIDETRAK[®] D stimulates beetles to ingest the insecticide, resulting in greater efficacy of the insecticide. CIDETRAK[®] D is formulated to mix with a number of insecticides and to adhere to plant surfaces.

Critical Note: CIDETRAK[®] D formulation consists of natural ingredients which do not dissolve in water and readily fall out of solution when agitation is terminated. However, CIDETRAK[®] D can be effectively sprayed from aircraft or ground rigs only when agitation is properly maintained throughout the mix and application cycle.

Monitoring:

Please see Trécé's IPM Partner[®] Guidelines for monitoring *Diabrotica* spp. using PHEROCON[®] AM No-Bait and PHEROCON[®] CRW traps.

HOW TO USE*

Mixing Directions:

Begin with a clean mixing tank and spray system. Fill the mixing tank with desired amount of water. With the agitation system operating, add insecticide. After insecticide is thoroughly suspended, add the recommended amount of CIDETRAK[®] D. Following complete suspension add remainder of water. NOTE: Maintain continuous agitation during mixing and application.

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Diabrotica spp.



Application Directions:

| Crop | Remarks |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Corn | <p>AIR: For control of corn rootworm adults, mix and apply 3.1 oz (87 g) of CIDETRAK® D in 1-5 gal. of water per acre.</p> <p>GROUND: Mix and apply 3.1 oz (87 g) of CIDETRAK® D in 5-10 gals. of water per acre.</p> |
| Cucurbits and other specialty crops | <p>AIR: For control of cucumber beetle adults, mix and apply 3.1 oz (87 g) of CIDETRAK® D in 1-5 gal. of water per acre.</p> <p>GROUND: Mix and apply 3.1 oz (87 g) of CIDETRAK® D in 5-10 gals. of water per acre.</p> <p>BAIT: Mix CIDETRAK® D with standard bait using a suitable mixer. Apply according to directions for bait application.</p> <p>NOTE: Do not mix with any additional adjuvants. Do not apply CIDETRAK® D during rain or when rain is expected within 24 hrs of application.</p> |

*See Insecticide Rate Table on Page 3

CRITICAL NOTE: All screens should be removed from the spray systems during mixing and application, including nozzle and strainer screens; however, when screens are left in place, never use screens smaller than 6 mesh (6 holes per inch). **Maintain agitation at all times.**

- **Aerial Application:** Apply **CIDETRAK® D** in 1 gallon of water per acre. The application is a bait treatment that requires a range of discrete droplets rather than a full cover spray. We recommend a volume mean diameter (VMD) of 600 µm to be achieved as follows:
 1. Using D6 nozzles: remove cores. Orient nozzles to point straight behind aircraft – NOT towards the ground.
 2. Using CP straight stream nozzles: set deflector to straight stream, set nozzle to 0.125-in. orifice diameter, and orient nozzles to point straight behind aircraft – NOT towards the ground.

For all nozzle configurations, aircraft should maintain a height of 8-10 ft. above crop during application and travel 100-150 mph.

- **Ground Application:** Apply **CIDETRAK® D** in 5-10 gallons of water per acre. The application is a bait treatment that requires large discrete droplets rather than a full cover spray. To achieve this, use a volume mean diameter (VMD) of 600 µm. Use D4, D5, or D6 nozzles without cores. Orient nozzles to point horizontal to the ground – NOT towards the ground. The boom should be positioned at least 2 ft. above crop during application.
- **Bait Application:** Mix **CIDETRAK® D** with standard baits using a suitable mixer either dry or using a small amount of water. Apply at the recommended rate of the bait.

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USDA and several universities have conducted large scale research trials and have found that using a reduced rate of insecticides with **CIDETRAK® D** is as or more effective than using the full label rate.

| Crop | Insecticide | Formulation |
|------|-----------------|---------------|
| Corn | Lannate® | 8.0 fl oz / A |
| | Sevin® XLR Plus | 6.0 fl oz / A |
| | Lorsban® | 3.0 fl oz / A |

Note: Follow precautionary statements on insecticide label concerning safe handling and reentry intervals.

Note: Do not apply **CIDETRAK® D** during rain or when rain is expected within 24 hrs. of application.

STORAGE AND DISPOSAL

- Store in cool, dry and locked storage area only in unopened, original container.
- Do not contaminate water, food, or feed by storage or disposal. Wastes of this product can be disposed of on site or at an approved waste disposal facility. Once mixed with an insecticide, wastes must be disposed of in accordance with the instructions on the insecticide label.
- Dispose of **CIDETRAK® D** packaging in regular trash or burn according to local guidelines.
- Dispose of insecticide container according to Manufacturer, Federal, State, and Local authorities.

CONDITIONS OF SALE AND WARRANTY

The statements made in these guidelines are believed to be true and accurate, but because of conditions of use which are beyond our control, Trécé, Incorporated does not make, nor does it authorize any agent or representative to make any warranty, guaranty or representation, expressed or implied, concerning this material or the use thereof, except in conformity with the statements herein. Neither Trécé Incorporated nor the seller shall be held responsible in any manner for any personal injury or property damage or loss resulting to the buyer or to any other person from handling, storage or use of this material not in accordance with directions. The buyer assumes all risk and liability resulting from improper handling, storage or use and accepts and uses this material on these conditions.

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