

SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)

1. IDENTIFICATION

PRODUCT NAME: VENTRILIX 2L
DESCRIPTION: A liquid insect growth regulator.
EPA Reg. No.: 89167-72-89391

COMPANY IDENTIFICATION:
Innvictis Crop Care, LLC
1880 Fall River Drive, Suite 100
Loveland, CO 80538

2. HAZARD IDENTIFICATION



WARNING
Very toxic to aquatic life

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Common Name</u>	<u>Chemical Name</u>	<u>CAS #</u>	<u>Composition</u>
Diflubenzuron	[[[(4-chlorophenyl)amino]carbonyl]-2,6-difluorobenzamide	35367-38-5	22.0%

4. FIRST AID MEASURES

Have the Ventrilix 2L container or label with you when calling a poison control center or doctor, or going for treatment. For additional information on this pesticide product, including health concerns, medical emergencies, or pesticide incidents, you may call CHEMTREC at 1-800-424-9300, 24 hours per day, 7 days per week.

5. FIREFIGHTING MEASURES

Flash Point: N/A

Flammable Limits (LFL-UFL): Not Determined

Fire and Explosion Hazards: Thermal decomposition will release irritating gases and fumes (see Section 10).

Extinguishing Medium: Foam, CO₂, dry chemical or water fog.

Fire Fighting Equipment: Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

Fire Fighting Instructions: Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

NFPA Ratings: Health – 1 / Flammability – 1 / Reactivity - 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Evacuate unprotected and unnecessary personnel from area of spill. Keep people away from and upwind of spill/leak. Wear personal protective equipment as described in Section 8 of this document.

Environmental Precautions: Prevent spill from entering waterways, sewers, basements or confined areas.

Spill Cleanup: Cover spill with suitable absorbent material such as sand or earth. Sweep up spill and shovel into suitable container for disposal.

7. HANDLING AND STORAGE

Handling: Avoid swallowing, inhaling, and contact with skin and eyes. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Storage: Do not contaminate water, food or feed by storage or disposal. Keep this product in its tightly closed original container. Store in a cool, dry (preferably locked) area that is inaccessible to children and animals.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

Protective Clothing: Applicators and other handlers must wear long-sleeved shirt & long pants; chemical-resistant gloves, such as barrier laminate or butyl rubber ≥ 14 mils or nitrile rubber ≥ 14 mils or neoprene rubber ≥ 14 mils or natural rubber ≥ 14 mils or polyethylene or polyvinyl chloride (PVC) ≥ 14 mils or Viton ≥ 14 mils, when mixing and loading and also when using hand-held equipment; shoes plus socks.

General: Remove clothing/PPE 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Pinkish brown liquid

Odor: Mildly bitter

Flash Point: N/A

pH: 8.0 – 9.0 (1% aq. @ 25°C)

Density: 1.09 g/mL (9.1 lbs/gal) @ 26°C

Solubility: Soluble in water

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: None known.

CHEMICAL STABILITY: Stable under all normal use and storage conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: None when stored and handled as prescribed. Thermal decomposition may release noxious and toxic fumes

INCOMPATIBILITY WITH OTHER MATERIALS: Oxidizing agents, strong acids, and bases.

POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ORAL TOXICITY (rat LD₅₀): > 5,000 mg/kg

DERMAL TOXICITY (rat LD₅₀): > 5,000 mg/kg

INHALATION TOXICITY (rat LC₅₀): > 4.8 mg/L (4-hour)

EYE IRRITATION: Mildly irritating

SKIN IRRITATION: Slightly irritating

SKIN SENSITIZATION: Guinea pig – not a contact sensitizer

CARCINOGENICITY:

ACGIH: Not Listed

NTP: Not Listed

IARC: Not Listed

OSHA: Not Listed

MUTAGENIC TOXICITY: No evidence of mutagenic effects during *in vivo* and *in vitro* assays.

REPRODUCTIVE TOXICITY: No evidence in animal studies.

12. ECOLOGICAL INFORMATION

This pesticide is toxic to terrestrial juvenile insects and aquatic invertebrates/mollusks/insects.

This product may contaminate water through drift of spray in wind. This product has a potential for runoff for several months or more after application.

The following is for the active ingredient, diflubenzuron:

AQUATIC TOXICITY

Rainbow Trout (96-hour LC₅₀): > 0.2 mg/L

Daphnia (48-hour LC₅₀): 7.1 µg/L

Algae (LC₅₀): > 0.3 mg/L

AVIAN TOXICITY

Bobwhite Quail (8-d LD₅₀): > 4640 mg/kg

Mallard Duck (8-d LD₅₀): > 4640 mg/kg

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse this container. Refer to the product label for specific container disposal instructions.

14. TRANSPORT INFORMATION

US DOT (shipped by land):

Containers < 119 gallons (450 L): Not regulated by DOT.

Containers > 119 gallons (450 L):

DOT Shipping Name: UN3082, Environmentally Hazardous Substance, Liquid, N.O.S.
(Diflubenzuron), 9, PG III

Emergency Response Guide: 171

Marine Pollutant: Yes

INFORMATION CONTINUED ON PAGE 4

15. REGULATORY INFORMATION

FIFRA –

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

ENVIRONMENTAL HAZARDS

This pesticide is toxic to terrestrial juvenile insects and aquatic invertebrates/mollusks/insects. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

This product may contaminate water through drift of spray in wind. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams and springs will reduce the potential for contamination of water from rainfall-runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

Bees and other insect pollinators can be exposed to this pesticide from:

- Direct contact during foliar applications, or contact with residues on plant surfaces after foliar application
- Ingestion of residues in nectar and pollen when the pesticide is applied as a foliar application
- Minimize exposure of this product to bees and other insect pollinators when they are foraging on pollinator attractive plants around the application site

When Using This Product, Take Steps To:
Minimize drift of this product on to beehives or to off-site pollinator attractive habitat. Drift of this product onto beehives or off-site to pollinator attractive habitat can result in reduced immature bee viability.

PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow this product to come in contact with an oxidizing agent such as potassium permanganate. Hazardous chemical reaction may occur.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide.

SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

SARA Title III – Section 311/312 Hazard Categories

Immediate, Delayed

SARA Title III – Section 312 Threshold Planning Quantity

N/A

SARA Title III – Section 313 Reportable Ingredients

Diflubenzuron (22.0%) (CAS No. 35367-38-5)

CERCLA –

N/A

CALIFORNIA PROP 65 STATUS –

This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

CANADA –

This product has been classified in accordance with the hazards criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

16. OTHER INFORMATION

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

To the extent consistent with applicable law, neither Innvictis Crop Care, LLC nor Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF INNICTIS CROP CARE, LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF INNICTIS CROP CARE, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SDS Version: 1.0

Effective Date: 02/02/2017