



# Safety Data Sheet

**INTEGO™ SUITE Soybeans**

## 1. IDENTIFICATION: CHEMICAL PRODUCT AND COMPANY

**PRODUCT NAME:** INTEGO™ SUITE Soybeans  
**EPA REGISTRATION NUMBER:** 59639-205  
**VC NUMBER(S):** 1959 (May include others for formulations with similar content and concentrations.)  
**SYNONYM(S):** V-10385, UBI 7026-00, INTEGO™ SUITE Seed Protectant  
**PRODUCT DESCRIPTION:** Insecticide & Fungicide Mixture For Seed Treatment

Intego is a trademark of Valent U.S.A. Corporation

**MANUFACTURER/DISTRIBUTOR**  
VALENT U.S.A. CORPORATION  
P.O. Box 8025  
1600 Riviera Avenue, Suite 200  
Walnut Creek, CA 94596-8025

**EMERGENCY TELEPHONE NUMBERS**  
HEALTH EMERGENCY OR SPILL (24 hr):  
(800) 892-0099  
TRANSPORTATION (24 hr.): CHEMTREC  
(800) 424-9300 or (202) 483-7616

**PRODUCT INFORMATION**  
AGRICULTURAL PRODUCTS: (800) 682-5368

## 2. HAZARDS IDENTIFICATION

**For EPA FIFRA-specific information see Section 15**

### Classification

**Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).**

### Label elements

### EMERGENCY OVERVIEW



**Precautionary Statements - Prevention**

Read product label prior to using this product. For specific handling instruction refer to Section 7, Handling and Storage

**Precautionary Statements - Response**

See Section 4, First Aid Measures

**Precautionary Statements - Storage**

For information on Storage and Handling see Section 7.

**Precautionary Statements - Disposal**

For further information on product and container disposal see Section 13.

**Hazards not otherwise classified (HNOC)****Other Information**

- Toxic to aquatic life
- Toxic to aquatic life with long lasting effects

For information on Transportation requirements see Section 14.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight/ Percent	TRADE SECRET
Clothianidin	210880-92-5	18 - 22	
Ethaboxam	162650-77-3	2.5 - 3.5	
Ipconazole	125225-28-7	0.9 - 1.1	
Metalaxyl	57837-19-1	0.7 - 0.9	
Glycerine	56-81-5	1 - 3	
Propane-1,2-diol	57-55-6	4 - 13	
Other ingredients	Various CAS#s	56 - 73	*

Other ingredients, which may be maintained as trade secrets, are any substances other than an active ingredient contained in this product. Some of these may be hazardous, but their identities are withheld because they are considered trade secrets. The hazards associated with the other ingredients are addressed in this document. Specific information on other ingredients for the management of exposures, spills, or safety assessments can be obtained by a treating physician or nurse by calling **(800) 892-0099** at any time.

### 4. FIRST AID MEASURES

**EMERGENCY NUMBER (800) 892-0099**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact **1-800-892-0099** for emergency medical treatment information.

**EYE CONTACT:**

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.

**SKIN CONTACT:**

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.

**INGESTION:**

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**INHALATION:**

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

**NOTES TO PHYSICIAN:**

Treatment is supportive and symptomatic.

## 5. FIRE FIGHTING MEASURES

<b>Flash point °F</b>	> 200 °F
<b>AUTOIGNITION:</b>	No data available
<b>EXTINGUISHING MEDIA:</b>	Water fog, carbon dioxide, foam, dry chemical
<b>FLAMMABLE LIMITS IN AIR - LOWER (%):</b>	Not applicable
<b>FLAMMABLE LIMITS IN AIR - UPPER (%):</b>	Not applicable

**NFPA RATING:**

Health:	1
Flammability:	1
Reactivity:	0
Special:	None

(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using professional judgement. Values were not available in the guidelines or published evaluations prepared by the National Fire Protection Association, NFPA.

**FIRE FIGHTING INSTRUCTIONS:** Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse.

**HAZARDOUS DECOMPOSITION PRODUCTS:** May form toxic materials such as: carbon dioxide, hydrogen chloride, hydrogen cyanide, oxides of sulfur, oxides of nitrogen, carbon monoxide, various hydrocarbons, etc.

## 6. ACCIDENTAL RELEASE MEASURES

**VALENT EMERGENCY PHONE NUMBER: (800) 892-0099**  
**CHEMTREC EMERGENCY PHONE NUMBER: (800) 424-9300**  
**OBSERVE PRECAUTIONS IN SECTION 8: PERSONAL PROTECTION**

Stop the source of the spill if safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water. For additional spill response information refer to the North American Emergency Response Guidebook.

**UN/NA NUMBER:** Not applicable for Domestic Ground

**EMERGENCY RESPONSE GUIDEBOOK NO.:** Not Applicable

**FOR SPILLS ON LAND:**

**CONTAINMENT:** Avoid runoff into storm sewers and ditches which lead to waterways. Contain spilled liquids with dry sorbents.

**CLEANUP:** Clean up spill immediately. Absorb spill with inert material (such as dry sand or earth), then place in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent and place in a chemical waste container.

**FOR SPILLS IN WATER:**

**CONTAINMENT:** This material is miscible in water. Stop or reduce contamination of any water. Isolate contaminated water.

**CLEANUP:** Clean up spill immediately. Absorb spill with inert material. Remove contaminated water for treatment or disposal.

## 7. HANDLING AND STORAGE

**END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.**

**HANDLING:**

Keep pesticide in original container. Do not store or transport near food or feed. Do not contaminate food or feed. Do not put concentrate into food or drink containers. Do not dilute concentrate in food or drink containers. Store in a cool, dry place, out of direct sunlight.

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. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Keep container tightly closed. Keep container in a cool well ventilated area. Stable at normal temperatures and storage conditions in closed original package.

**STORAGE:**

Do not reuse empty container. To close package, replace and tighten cap to form an airtight seal. Open dumping is prohibited. Do not store at temperatures below 32°F. If the product is exposed to temperatures below 32°F, thaw at room temperature to 50°F or warmer and shake gently to unify the product.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**END USER MUST READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.**

**EYES & FACE:** Do not get this material in your eyes. Eye contact can be avoided by wearing protective eyewear.

**RESPIRATORY PROTECTION:** Use this material only in well ventilated areas. If operating conditions result in airborne concentrations of this material, the use of an approved respirator is recommended.

**SKIN & HAND PROTECTION:** All mixers, loaders, applicators and other handlers must wear long-sleeved shirt and long pants, shoes plus socks and chemical-resistant gloves. Some of the materials that are chemical-resistant to this product are barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride and Viton®. For more options, follow the instructions for category C on an EPA chemical-resistance category selection chart.

**ENGINEERING CONTROLS:** Use in a well ventilated area.

**EXPOSURE LIMITS**

Chemical Name	ACGIH Exposure Limits	OSHA Exposure Limits	Manufacturer's Exposure Limits
Clothianidin	None	None	None
Ethaboxam	None	None	None
Ipconazole	None	None	None
Metalaxyl	None	None	None
Glycerine	None	15 mg/m <sup>3</sup> TWA 5 mg/m <sup>3</sup> TWA	None
Propane-1,2-diol	None	10 mg/m <sup>3</sup> TWA	None
Other ingredients	None	None	None

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state</b>	Liquid		
<b>Appearance</b>	No information available	<b>Odor</b>	Rancid oil odor
<b>Color</b>	Red	<b>Odor threshold</b>	No information available

<u>PROPERTIES</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	5.87	1% (w/v) dilution in water
<b>Melting point/freezing point</b>	No information available	
<b>Boiling point/boiling range</b>	No information available	
<b>Flash point</b>	> 200 °F	
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limits in Air</b>		
<b>Upper flammability limits</b>	Not Applicable	
<b>Lower flammability limit</b>	Not Applicable	
<b>Vapor pressure</b>	No information available	
<b>Vapor density</b>	No information available	
<b>Specific Gravity</b>	No information available	
<b>Water solubility</b>	No information available	
<b>Solubility in other solvents</b>	No information available	
<b>Partition coefficient</b>	No information available	
<b>Autoignition temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available	
<b>Viscosity</b>	44.1 mPa s at 20 °C (or 44.1 cP)	
<b>Explosive properties</b>	No information available	
<b>Oxidizing properties</b>	No information available	
<b>Density</b>	1.14 g/cm <sup>3</sup> or 9.51 lb/gal at 20 °C	
<b>Bulk density</b>	No information available	

**10. STABILITY AND REACTIVITY**

Reactivity  
No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to avoid**

Extremes of temperature and direct sunlight.

**Incompatible materials**

None known based on information supplied.

**Hazardous Decomposition Products**

May form toxic materials such as: carbon dioxide (CO<sub>2</sub>), hydrogen chloride, Hydrogen cyanide, oxides of sulfur, oxides of nitrogen, carbon monoxide, various hydrocarbons, etc.

**11. TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY:**

Based on an evaluation of a similar product.

Oral Toxicity LD <sub>50</sub> (rats)	3129 mg/kg	EPA Tox Category	III
Dermal Toxicity LD <sub>50</sub> (rats)	> 5000 mg/kg	EPA Tox Category	IV
Inhalation Toxicity LC <sub>50</sub> (rats)	> 2.05 mg/L	EPA Tox Category	IV
Eye Irritation (rabbits)	Non-irritating	EPA Tox Category	IV
Skin Irritation (rabbits)	Slightly irritating	EPA Tox Category	IV
Skin Sensitization (guinea pigs)	Non-sensitizer	EPA Tox Category	Not applicable

**CARCINOGEN CLASSIFICATION**

Chemical Name	IARC	OSHA - Select Carcinogens	NTP Carcinogen List
Clothianidin	Not Applicable	Not Applicable	Not listed
Ethaboxam	Not listed	Not Listed	Not listed
Ipconazole	Not listed	Not Listed	Not listed
Metalaxyl	Not listed	Not Listed	Not listed
Glycerine	Not listed	Not Listed	Not listed
Propane-1,2-diol	Not listed	Not Listed	Not listed
Other ingredients	Not listed	Not Listed	Not listed

**TOXICITY OF CLOTHIANIDIN TECHNICAL**

**SUBCHRONIC:** The NOEL in a 3-month rat feeding study with Clothianidin Technical was 27.9 mg/kg/day (male) and 34.0 mg/kg/day (female) The NOEL in a 90-day dog feeding study was 19.3 mg/kg/day (male) and 21.2 mg/kg/day (female). In a subchronic dermal study with rats, the NOAEL is > 1,000 mg/kg/day.

**CHRONIC/CARCINOGENICITY:** The Clothianidin NOEL for a 2-year rat study was 9.7 mg/kg/day (female); for a 18-month mouse study was 47.2 mg/kg/day (male) and for a 12-month dog study was 7.8 mg/kg/day (male). The principal target organs were the glandular stomach, kidney, ovary, and liver. No oncogenic effects were observed in the 2-year rat or 18-month mouse feeding studies.

**NEUROTOXICITY:** Clothianidin is not a neural toxin.

**DEVELOPMENTAL TOXICITY:** No teratogenic effects on rats or rabbits were observed. Transient developmental effects (delayed ossification) were observed in rabbits at maternally toxic doses (100 mg/kg/d). The technical material is fetotoxic in animal studies at maternally toxic doses.

**REPRODUCTION:** No reproductive effects were observed in rats at the highest dose tested (2500 ppm).

**MUTAGENICITY:** *In vivo* tests have demonstrated that the technical material is not mutagenic. Some *in-vitro* tests were positive for mutagenicity. The observed effects *in-vitro* were due to cytotoxic effects. The weight-of-evidence from the *in vivo* whole animal tests suggest that this product does not present a mutagenic hazard.

#### TOXICITY OF ETHABOXAM TECHNICAL

**CHRONIC/CARCINOGENICITY:** In a one-year dog study, Ethaboxam Technical produced no adverse effects up to 30 mg/kg/day (HDT). In a 2-year study in rats, Ethaboxam Technical produced adverse effects in the male reproductive organs and Interstitial/Leydig cell adenomas. The NOAEL for this study was 5.5 mg/kg/day. In a one-year mouse study with Ethaboxam Technical, no evidence of carcinogenicity was observed.

**NEUROTOXICITY:** Ethaboxam Technical was not neurotoxic in acute or subchronic neurotoxicity studies.

**IMMUNOTOXICITY:** Ethaboxam Technical was not immunotoxic when tested in rats using a modified plaque forming assay.

**DEVELOPMENTAL TOXICITY:** Developmental toxicity studies with Ethaboxam Technical at doses high enough to cause maternal toxicity produced developmental effects (abnormal liver lobation) in rats. Similar developmental effects were not observed in rabbits.

**REPRODUCTION:** Ethaboxam Technical was tested in a 2-generation rat reproduction study. Reduced body weight gain was noted at 650 ppm (HDT). Testicular lesions and reduced fertility were also observed in F1 males at this level. Decreased body weight and viability were observed at the highest dose tested. The parental, reproductive and offspring NOAEL was 200 ppm (16.2 mg/kg/day).

**MUTAGENICITY:** Genetic toxicity studies show that Ethaboxam Technical may cause numerical chromosome effects (via effects on the mitotic spindle), but does not cause gene mutations or structural chromosome aberrations.

#### TOXICITY OF IPCONAZOLE

**SUBCHRONIC:** In a subchronic study, ipconazole showed liver weight increase and effects on blood cells at 200 ppm.

**CHRONIC/CARCINOGENICITY:** Chronic liver effects at high dose levels. No carcinogenicity observed.

**DEVELOPMENTAL TOXICITY:** Maternal toxicity was observed in teratogenicity studies with rats and rabbits at levels that showed effects in offspring.

**REPRODUCTION:** No effects observed.

**MUTAGENICITY:** Ipconazole is negative in mutagenicity assays

For a summary of the potential for adverse health effects from exposure to this product, refer to Section 2. For information regarding regulations pertaining to this product, refer to Section 15.

## 12. ECOLOGICAL INFORMATION

**AVIAN TOXICITY:** The following information is based upon component(s) of this material.  
96-hr Oral Bobwhite quail: > 2,000 mg/kg  
96-hr Oral Mallard duck: = 503 mg/kg  
96-hr Dietary Mallard duck: > 5,200 ppm

**AQUATIC ORGANISM TOXICITY:** This product is toxic to aquatic invertebrates. The following are results from testing of product components.

The following are results from testing of Clothianidin Technical:  
96-hr Bluegill LC<sub>50</sub>: > 117 mg/L  
96-hr Sheepshead minnow LC<sub>50</sub>: > 102 mg/L  
96-hr Mysid LC<sub>50</sub>: = 0.053 mg/L

The following are results from testing of Ipconazole:  
96-hr Common Carp LC<sub>50</sub>: = 1.6 mg/L  
72-hr Selenastrum capricornutum LC<sub>50</sub>: > 0.7 mg/L  
48-hr Daphnia Magna EC<sub>50</sub>: >1.5 mg/L

The following are results from testing of Metalaxyl:  
96-hr Rainbow trout LC<sub>50</sub>: > 100 mg/L  
120-hr Freshwater Green Algae: = 33 mg/L  
48-hr Daphnia magna LC<sub>50</sub>: > 28 mg/L

The following are results from testing of Ethaboxam Technical:  
LC<sub>50</sub> (96 hr) Fathead Minnow: greater than 4.6 mg/L  
LC<sub>50</sub> (96 hr) Rainbow Trout: 2.3 mg/L  
LC<sub>50</sub> (96 hr) Sheepshead Minnow: greater than 3.1 mg/L  
EC<sub>50</sub> (48 hr) Daphnia magna: 0.35 mg/L  
LC<sub>50</sub> (96 hr) Mysid Shrimp: 0.42 mg/L  
EC<sub>50</sub> (96 hr) Oyster Shell Deposition: 0.38 mg/L  
EC<sub>50</sub> (96 hr) Green algae: greater than 3.6 mg/L

**OTHER NON-TARGET ORGANISM TOXICITY:**

The following information is based on Clothianidin Technical:  
Honeybee 48-hour oral LD<sub>50</sub>: = 0.0037ug (microgram)/bee  
Honeybee 48-hour contact LD<sub>50</sub>: = 0.044 ug (microgram)/bee  
Earthworm 7-day LC<sub>50</sub>: = 19 mg/kg dry soil

### 13. DISPOSAL CONSIDERATIONS

**END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS.**

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

**CONTAINER DISPOSAL:** Do not reuse this container. Refer to pesticide label for proper container disposal instructions.



**DISPOSAL METHODS:** Check government regulations and local authorities for approved disposal of this material. Dispose of in accordance with applicable laws and regulations.

**14. TRANSPORTATION INFORMATION**

**DOT (ground) SHIPPING NAME:** Pesticides, liquid, non-regulated  
**REMARKS:** Not regulated for domestic ground transport by U.S. DOT  
**EMERGENCY RESPONSE**  
**GUIDEBOOK NO.:** Not applicable

**ICAO/IATA SHIPPING NAME:** UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S. (Clothianidin), 9, III, Marine Pollutant  
**REMARKS:** Single or inner packaging less than 5 L (liquid) or 5 Kg net (solids) excepted from Dangerous Goods regulations -- see UN Special Provision 375. For U.S. shipping, Emergency Response Guidebook No. 171.

**IMDG SHIPPING NAME:** UN 3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Clothianidin), 9, III, Marine Pollutant  
**REMARKS:** EMS# F-A, S-F

**15. REGULATORY INFORMATION**

**EPA-FIFRA LABEL INFORMATION THAT DIFFERS FROM OSHA-GHS REQUIREMENTS:**

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

**EPA FIFRA SIGNAL WORD: CAUTION**

- *Avoid contact with eyes, skin and clothing.*
- *Avoid breathing spray mist.*
- *Keep out of reach of children.*

**PESTICIDE REGULATIONS:** All pesticides are governed under FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act). Therefore, the regulations presented below are pertinent only when handled outside of the normal use and applications of pesticides. This includes waste streams resulting from manufacturing/formulation facilities, spills or misuse of products, and storage of large quantities of products containing hazardous or extremely hazardous substances.

**U.S. FEDERAL REGULATIONS:** Ingredients in this product are reviewed against an inclusive list of federal regulations. Therefore, the user should consult appropriate authorities. The federal regulations reviewed include: Clean Water Act, SARA, CERCLA, RCRA, DOT, TSCA and OSHA. If no components or information is listed in the space below this paragraph, then none of the regulations reviewed are applicable.

**Glycerine**  
 TSCA Inventory List - Present  
**Propane-1,2-diol**  
 TSCA Inventory List - Present

**SARA (311, 312):**  
 Immediate Health: No  
 Chronic Health: No

Fire: No  
 Sudden Pressure: No  
 Reactivity: No

**STATE REGULATIONS:** Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations. Therefore, the user should consult state or local authorities. The state regulations reviewed include: California Proposition 65, California Directors List of Hazardous Substances, Massachusetts Right to Know, Michigan Critical Materials List, New Jersey Right to Know, Pennsylvania Right to Know, Rhode Island Right to Know and the Minnesota Hazardous Substance list. For Washington State Right to Know, see Section 8 for Exposure Limit information. For Louisiana Right to Know refer to SARA information listed under U.S. Regulations above. If no components or information is listed in the space below this paragraph, then none of the regulations reviewed are applicable.

**Glycerine**

MA Right To Know Present  
 NJ Right To Know 3319  
 PA Right To Know Present  
 RI Right To Know Listed  
 MN Hazardous Substance Present

**Propane-1,2-diol**

NJ Right To Know 3595  
 PA Right To Know Present  
 MN Hazardous Substance Present

**16. OTHER INFORMATION**

**REASON FOR ISSUE:** Revised Section 15.  
**SDS NO.:** 0467  
**EPA REGISTRATION NUMBER:** 59639-205  
**REVISION NUMBER:** 5  
**REVISION DATE:** 09/01/2015  
**SUPERCEDES DATE:** 07/28/2015  
**RESPONSIBLE PERSON(S):** Valent U.S.A. Corporation, Corporate EH&S, (925) 256-2803

The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, to the extent consistent with applicable law, Valent U.S.A. Corporation and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, to the extent consistent with applicable law, neither Valent U.S.A. Corporation nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. Except to the extent a particular use and particular information are expressly stated on the product label, it is the users' own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Valent U.S.A. Corporation to confirm that you have the most current product label and SDS.

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This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (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 as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom").

The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use an EPA-registered pesticide product in any manner inconsistent with its labeling.

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