

# Safety Data Sheet



## ADVION® FIRE ANT BAIT

Date: 4/2/2015  
Replaces: 11/1/2013

### 1. PRODUCT IDENTIFICATION

Product identifier on label: **ADVION® FIRE ANT BAIT**

Product No.: A20380A

Use: Insecticide

Manufacturer: Syngenta Crop Protection, LLC  
Post Office Box 18300  
Greensboro NC 27419

Manufacturer Phone: 1-800-334-9481

**Emergency Phone: 1-800-888-8372**

### 2. HAZARDS IDENTIFICATION

Classifications: Not Applicable

Signal Word (OSHA): Not Applicable

Hazard Statements: Not Applicable

Hazard Symbols:

Precautionary Statements: Not Applicable

Other Hazard Statements: May form combustible dust concentrations in air.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration
Other ingredients	Other ingredients	Trade Secret	99.955%
methyl (4aS)-7-chloro-2,5-dihydro-2- [[[(methoxycarbonyl)]4- (trifluoromethoxy)phenyl]amino]carbonyl]in deno[1,2-e][1,3,4]oxadiazine-4a(3H)- carboxylate	Indoxacarb Technical	173584-44-6	0.045%

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

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### 4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

**Ingestion:** If swallowed: First aid measures are not normally required. If you feel unwell or have concerns, contact Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

**Eye Contact:** If in eyes: Rinse eyes with water. First aid measures are not normally required. If concerned, call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

**Skin Contact:** If on skin or clothing: First aid measures are not normally required. Wash material from the skin. If concerned, call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

**Inhalation:** If inhaled: First aid measures are not normally required. If you feel unwell or have concerns, contact Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Most important symptoms/effects:

Not Applicable

Indication of immediate medical attention and special treatment needed:

There is no specific antidote if this product is ingested.

Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Special protective equipment and precautions for firefighters:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Avoid dust formation.

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

### 7. HANDLING AND STORAGE

Precautions for safe handling:

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

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Conditions for safe storage, including any incompatibilities:  
 Not Applicable

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

#### Occupational Exposure Limits:

Chemical Name	OSHA PEL	ACGIH TLV	Other	Source
Other ingredients	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Indoxacarb Technical	Not Established	Not Established	1 mg/m <sup>3</sup> 8hr & 12hr TWA (respirable)	Manufacturer

#### Appropriate engineering controls:

Use effective engineering controls to comply with occupational exposure limits (if applicable).

#### Individual protection measures:

##### Ingestion:

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

##### Eye Contact:

Where eye contact is likely, use dust-proof chemical goggles.

##### Skin Contact:

Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

##### Inhalation:

A respirator is not normally required when handling this substance.

In case of emergency spills, use a NIOSH approved respirator with any N, R, P or HE filter.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light yellow granules

Odor: Slight, oily

Odor Threshold: Not Available

pH: Not Available

Melting point/freezing point: Not Available

Initial boiling point and boiling range: Not Available

Flash Point (Test Method): Not Available

Flammable Limits (% in Air): Not Available

Flammability: Not Available

Vapor Pressure: Indoxacarb Technical Not Available

Vapor Density: Not Available

Relative Density: 0.29 - 0.35 g/cm<sup>3</sup>

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Solubility (ies): Indoxacarb Technical Not Available

Partition coefficient: n-octanol/water: Not Available

Autoignition Temperature: Not Available

Decomposition Temperature: Not Available

Viscosity: Not Available

Other: None

### 10. STABILITY AND REACTIVITY

Reactivity: Not reactive.

Chemical stability: Stable under normal use and storage conditions.

Possibility of hazardous reactions: Will not occur.

Conditions to Avoid: Not Available

Incompatible materials: None known.

Hazardous Decomposition Products: Not Available

### TOXICOLOGICAL INFORMATION

#### Health effects information

Likely routes of exposure: Dermal, Inhalation

Symptoms of exposure: Not Applicable

Delayed, immediate and chronic effects of exposure: Not Applicable

#### Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

Ingestion:	Oral (LD50 Rat) :	> 5000 mg/kg body weight
Dermal:	Dermal (LD50 Rabbit) :	> 5000 mg/kg body weight
Inhalation:	Inhalation (LC50 Female Rat) :	4.2 mg/l air - 4 hours (applies to the technical material)
Eye Contact:	Non-Irritating (Rabbit)	
Skin Contact:	Non-Irritating (Rabbit)	
Skin Sensitization:	Animal test did not cause sensitization by skin contact. (Guinea Pig)	

#### Reproductive/Developmental Effects

Indoxacarb Technical: Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.

Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

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Chronic/Subchronic Toxicity Studies

Indoxacarb Technical: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Inhalation; rat; Incoordination, mortality, red blood cell destruction causing abnormal decrease in number of red blood cells (anemia)

Carcinogenicity

Indoxacarb Technical: Animal testing did not show any carcinogenic effects.  
 Tests on bacterial or mammalian cell cultures did not show mutagenic effects.  
 Did not cause genetic damage in animals.

Chemical Name	NTP/IARC/OSHA Carcinogen
Other ingredients	No
methyl (4aS)-7-chloro-2,5-dihydro-2- [[[(methoxycarbonyl)]4- (trifluoromethoxy)phenyl]amino]carbonyl]inden o[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate	No

Other Toxicity Information

Not Available

Toxicity of Other Components

Other ingredients  
 Not Applicable

Target Organs

Active Ingredients

Indoxacarb Technical: Nervous system

Inert Ingredients

Other ingredients: Not Applicable

**12. ECOLOGICAL INFORMATION**

Eco-Acute Toxicity

Indoxacarb Technical:

- Fish (Rainbow Trout) 96-hour LC50 0.65 mg/l
- Bird (Bobwhite Quail) LD50 Oral 98 mg/kg
- Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 0.60 mg/l

Environmental Fate

Indoxacarb Technical:

Information given is based on data on the components and the ecotoxicology of similar products.  
 Environmental Hazards: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.

**13. DISPOSAL CONSIDERATIONS**

Disposal:

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

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Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

### 14. TRANSPORT INFORMATION

#### DOT Classification

Ground Transport - NAFTA  
Not regulated

#### Comments

Water Transport - International  
Not regulated.

Air Transport  
Not regulated.

### 15. REGULATORY INFORMATION

#### Pesticide Registration:

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. Following is the hazard information as required on the pesticide label:

Caution: Keep out of reach of children.

#### EPA Registration Number(s):

100-1481

#### EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: None

#### CERCLA/SARA 304 Reportable Quantity (RQ):

Not Applicable

#### RCRA Hazardous Waste Classification (40 CFR 261):

Not Applicable

#### TSCA Status:

Exempt from TSCA, subject to FIFRA

### 16. OTHER INFORMATION

#### NFPA Hazard Ratings

Health: 1  
Flammability: 1  
Instability: 0

#### HMIS Hazard Ratings

Health: 1  
Flammability: 1  
Reactivity: 0

0	Minimal
1	Slight
2	Moderate
3	Serious
4	Extreme
*	Chronic

Syngenta Hazard Category: B

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## ADVION® FIRE ANT BAIT

Date: 4/2/2015

Replaces: 11/1/2013

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 3/5/2013

Revision Date: 4/2/2015

Replaces: 11/1/2013

Section(s) Revised: 1-16

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.



# Advion®

## Insect granule

### Insecticide

A granular insecticide bait for use to control crickets, including mole crickets, on lawns in residential, commercial, public and institutional landscaped areas, golf courses, parks, recreational areas, and sports and/or athletic fields; cockroaches, and listed crawling nuisance or occasional invader insect pests in crawl spaces, attics, basements of buildings or structures.

**Active Ingredient:**

Indoxacarb  
 (S)-methyl 7-chloro-2,5-dihydro-2-[[[(methoxycarbonyl)  
 [4(trifluoromethoxy)phenyl]amino]carbonyl]indeno[1,2-e]  
 [1,3,4]oxadiazine-4a-(3H)carboxylate . . . . . 0.22%

**Other Ingredients** . . . . . 99.78%

**Total:** . . . . . 100.00%

### KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

EPA Reg. No. 100-1483  
 EPA Est. No. 67572-GA-1

Product of USA

SCP 1483A-L1B 0414



#### FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment

#### HOT LINE NUMBER

For 24-Hour Medical Emergency Assistance  
 (Human or Animal) or  
 Chemical Emergency Assistance  
 (Spill, Leak, Fire, or Accident),  
 Call  
**1-800-888-8372**

#### PRECAUTIONARY STATEMENTS

##### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

##### CAUTION

Avoid contact with skin, eyes or clothing.

##### PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Shoes plus socks.
- Long-sleeved shirt and long pants are required when using hand-held application equipment.

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

#### USER SAFETY RECOMMENDATIONS

**USERS SHOULD:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, 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 rinsewater. Do not apply where/when conditions could favor runoff. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas

#### DIRECTIONS FOR USE

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

Not for use on turfgrass being grown for sale or other commercial use, or for commercial seed production. For use on turfgrass intended for aesthetic purposes or climate modification and being grown in lawns, grounds, golf courses, recreational areas and athletic fields.

Advion® Insect Granule must only be used in accordance with the Directions For Use on this label.

#### USE RESTRICTIONS

- Not for use on turfgrass that is being grown for seed or on commercial sod farms.
- Not for use in nurseries and greenhouses
- Do not allow livestock or domestic animals to consume the bait or graze in treated areas.
- Do not apply this product through any type of irrigation system.
- Do not exceed 200 total pounds of Advion Insect Granule (0.44 lb active ingredient) per acre per season for broadcast applications in turfgrass.
- Do not formulate this product into other end-use products.



### When to apply outdoors for cricket control:

Advion Insect Granule contains the active ingredient indoxacarb in a formulation that is highly attractive to house crickets, field crickets and mole cricket adults and nymphs. Advion Insect Granule should be applied in the spring to control adult mole crickets before they lay eggs and in the late summer and fall to control large nymphs and newly emerged adults. For best results, apply in late afternoon to areas of turfgrass that are infested with mole crickets. If the soil is not moist, then it is important to irrigate before application to bring the mole crickets to the soil surface where exposure to Advion Insect Granule will be maximized. For optimal effectiveness, allow grass that is wet with dew, rainfall or irrigation to dry before application. Rainfall or irrigation within 2 to 3 days after application may reduce the effectiveness of Advion Insect Granule.

### SPECIFIC USE DIRECTIONS

**Outdoor Broadcast Application:** Advion Insect Granule may be applied as a broadcast application at the rate of 50 to 200 pounds of product per acre. Calibrate and adjust equipment prior to application to ensure that the proper rate of product is uniformly applied over the treatment area. Repeat application after 7 days, if necessary.

### Outdoor Broadcast Application Rates

Application Sites	Pest Controlled	Pounds Product Per 1,000 sq ft	Pounds Product Per Acre	Lb AI/A
Turfgrasses grown for aesthetic or recreational purposes or climatic modification in or around home lawns, residential dwellings, business and office complexes, shopping complexes, multi-family residential complexes, institutional buildings, airports, cemeteries, parks, playgrounds, schools, golf courses (tee box areas, roughs, fairways, greens, collars etc.), sports and/or athletic fields, and other similar landscape turf areas	mole cricket adults and nymphs <i>Scapteriscus</i> spp., house crickets, field crickets, earwigs, silverfish and ants (except red imported fire ants, harvester ants, carpenter ants and pharaoh ants)	1.15 to 4.6*	50 to 200	0.11 to 0.44
	cockroaches***	2.3 to 4.6**	100 to 200	0.22 to 0.44

\* Equivalent to 1.84 to 7.36 oz/100 sq ft.

\*\* Equivalent to 3.86 to 7.36 oz/100 sq ft.

\*\*\* Minimum rate for cockroaches is 2.3 lb/1,000 sq ft equivalent to 3.86 oz/100 sq ft.

**Perimeter Application:** To control pests, listed in table above, apply to ground area in a band up to 10 feet wide around and adjacent to the structure.

**Boundary Application:** To control pests, listed in table above, apply to soil areas, fence lines, ornamental gardens, pavement crevices, planter areas, vegetation areas and mulch areas.

### Perimeter Application Rates

Application Rate: Pounds Per 1,000 sq ft	Band Width	Pounds of Advion® Insect Granule for Perimeter Applications Linear Distance (feet) Around Structure							
		100	150	200	250	300	400	500	1000
1.15	5 feet	0.7	1.0	1.3	1.6	1.8	2.4	3.0	5.9
1.15	10 feet	1.5	2.1	2.7	3.3	3.8	4.8	6.1	11.8
2.3	5 feet	1.3	1.9	2.5	3.1	3.6	4.8	5.9	11.7
2.3	10 feet	3.0	4.2	5.3	6.5	7.6	9.9	12.2	23.7
3.0	5 feet	1.7	2.5	3.2	4.0	4.7	6.2	7.7	15.2
3.0	10 feet	3.9	5.4	6.9	8.4	9.9	12.9	15.9	30.9
3.5	5 feet	2.0	2.9	3.8	4.6	5.5	7.3	9.0	17.8
3.5	10 feet	4.6	6.3	8.1	9.8	11.6	15.1	18.6	36.1
4.0	5 feet	2.3	3.3	4.3	5.3	6.3	8.3	10.3	20.3
4.0	10 feet	5.3	7.3	9.3	11.3	13.3	17.3	21.3	41.3
4.6	5 feet	2.7	3.8	5.0	6.1	7.3	9.6	11.9	23.4
4.6	10 feet	6.0	8.3	10.6	12.9	15.2	19.8	24.4	47.4

### INDOOR APPLICATION

Advion Insect Granule may be used to control house crickets, field crickets, earwigs, silverfish and ants (except red imported fire ants, harvester ants, carpenter ants and pharaoh ants) in crawl spaces, basements and attics of residential, industrial and commercial buildings or structures. Advion Insect Granule will kill cockroaches that consume the bait granules when placed in crawl spaces and basements of residential, industrial and commercial buildings or structures, but this type of application alone is not intended to provide complete control of an indoor cockroach infestation.

#### Crawl Spaces

**Target Pests:** house crickets, field crickets, cockroaches, earwigs, and ants (except red imported fire ants, harvester ants, carpenter ants and pharaoh ants)

**Perimeter-** Apply Advion Insect Granule along the edge of crawl space in a band approximately 6 to 12 inches wide at rate of 2 oz bait granules per 10 linear feet. Monitor the crawlspace area treated and reapply bait granules only as needed.

**Broadcast-** Apply Advion Insect Granule as broadcast treatment at rate of 1.15 lb granules per 1,000 sq ft. The minimum application rate for cockroaches is 2.3 lb bait granules per 1,000 sq ft, equivalent to 3.86 oz per 100 sq ft. Monitor the crawlspace area treated and reapply bait granules only as needed.

#### Basements

**Target Pests:** house crickets, field crickets, cockroaches, earwigs, and ants (except red imported fire ants, harvester ants, carpenter ants and pharaoh ants)

For unfinished basements not actively used as living area, apply bait granules along the edge of walls in a band approximately 6 to 12 inches wide at rate of 2 oz bait granules per 10 linear feet. Avoid areas accessible to children and pets. Monitor the area treated and reapply bait granules only as needed. See instructions below for use of bait stations in finished and unfinished basements.

Apply Advion Insect Granule in finished or unfinished basements using bait stations. Place 2 - 4 oz of bait granules in each bait station, depending on the bait station design and size. Apply Advion Insect Granule in basements by using commercially available bait stations designed for bait granule formulation insecticides. Place bait stations containing the granules in areas of the basement that are accessible to insect pests but not accessible to children and pets. Monitor the bait stations and replace bait granules as needed.

Do not allow Advion Insect Granule to contact any food or feed being stored in an unfinished or finished basement.

## Attics

**Target Pests:** house crickets, field crickets, and silverfish

Apply Advion Insect Granule only to attic space not being used as living area at rate of 1.15 lb per 1,000 sq ft as a broadcast treatment using a hand spreader. Monitor the attic area treated and reapply bait granules only as needed. Advion Insect Granule may also be applied in attics by using commercial bait stations designed to hold bait granule insecticide products. Place 2 - 4 oz of bait in each bait station, depending on the bait station design and size. The number of bait stations placed in the attic space will depend on the level of the infestation. Monitor the bait stations and replace bait granules as needed.

## STORAGE AND DISPOSAL

### Prohibitions

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

### Pesticide Storage

Store product in original container only in a location inaccessible to children and domestic animals/pets. Store in a cool, dry place and avoid excessive heat.

### 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 or refill this container. Completely empty plastic container, plastic bag or fiber sack into application equipment by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then offer for recycling, if available or dispose of plastic container, plastic bag or fiber sack in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and, (2) Buyer and User assume the risk of any such use. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.**

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA 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 SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

Advion®, the ALLIANCE FRAME   
the SYNGENTA Logo   
and the PURPOSE ICON   
are Trademarks of a  
Syngenta Group Company

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For non-emergency (e.g., current product information), call  
Syngenta Crop Protection at 1-800-334-9481

Manufactured for:  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300



Syngenta Crop Protection, LLC  
Post Office Box 18300  
Greensboro, NC 27419

In Case of Emergency, Call  
1-800-888-8372

**1. PRODUCT IDENTIFICATION**

Product Name: **ADVION INSECT GRANULE** Product No.: A20381A  
EPA Signal Word: Caution  
Active Ingredient(%): Indoxacarb (0.22%) CAS No.: 173584-44-6  
Chemical Name: methyl (4aS)-7-chloro-2,5-dihydro-2-[[[(methoxycarbonyl)[4-(trifluoromethoxy)phenyl]amino]carbonyl]indeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate  
Chemical Class: Insecticide  
EPA Registration Number(s): 100-1483 Section(s) Revised: 4

**2. HAZARDS IDENTIFICATION**

Health and Environmental

This product has no known adverse effect on human health.

Hazardous Decomposition Products

Not Available

Physical Properties

Appearance: Brown granules

Odor: Slight

Unusual Fire, Explosion and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Inert Ingredients (99.78%)	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Indoxacarb (0.22%)	Not Established	Not Established	1 mg/m <sup>3</sup> 8hr & 12hr TWA (respirable) *	No

\* recommended by manufacturer

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.  
Syngenta Hazard Category: A

**4. FIRST AID MEASURES**

Have the product container, label or Material Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: First aid measures are not normally required. If you feel unwell or have concerns, contact Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

- Eye Contact: If in eyes: Rinse eyes with water. First aid measures are not normally required. If concerned, call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Skin Contact: If on skin or clothing: First aid measures are not normally required. Wash material from the skin. If concerned, call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Inhalation: If inhaled: First aid measures are not normally required. If you feel unwell or have concerns, contact Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

#### Notes to Physician

There is no specific antidote if this product is ingested.

Treat symptomatically.

#### Medical Condition Likely to be Aggravated by Exposure

Not Available

### **5. FIRE FIGHTING MEASURES**

#### Fire and Explosion

- Flash Point (Test Method): Not Available
- Flammable Limits (% in Air): Lower: Not Applicable Upper: Not Applicable
- Autoignition Temperature: Not Available
- Flammability: Not Available

#### Unusual Fire, Explosion and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

#### In Case of Fire

Use dry chemical, foam or CO2 extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

### **6. ACCIDENTAL RELEASE MEASURES**

#### In Case of Spill or Leak

Avoid dust formation.

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

### **7. HANDLING AND STORAGE**

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.**

**FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.**

- Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.
- Eye Contact: Where eye contact is likely use dust-proof chemical goggles.
- Skin Contact: Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber,

neoprene rubber, natural rubber, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation: A respirator is not normally required when handling this substance.

In case of emergency spills, use a NIOSH approved respirator with any N, R, P or HE filter.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brown granules  
Odor: Slight  
Melting Point: Not Available  
Boiling Point: Not Available  
Specific Gravity/Density: 0.696 g/ml (bulk density)  
pH: 6.6

### Solubility in H<sub>2</sub>O

Indoxacarb: Not Available

### Vapor Pressure

Indoxacarb: Not Available

## 10. STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions.  
Hazardous Polymerization: Will not occur.  
Conditions to Avoid: Not Available  
Materials to Avoid: Not Available  
Hazardous Decomposition Products: Not Available

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity/Irritation Studies (Finished Product)

#### Ingestion:

Oral (LD50 Female Rat) : > 5000 mg/kg body weight

#### Dermal:

Dermal (LD50 Rat) : > 5000 mg/kg body weight

#### Inhalation:

Inhalation (LC50 Rat) : > 5.5 mg/l 4 hrs (applies to technical dry material)

Eye Contact: Non-Irritating (Rabbit)

Skin Contact: Non-Irritating (Rabbit)

Skin Sensitization: Animal test did not cause sensitization by skin contact. (Guinea Pig)

### Reproductive/Developmental Effects

Indoxacarb: Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.  
Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

### Chronic/Subchronic Toxicity Studies

Indoxacarb: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Inhalation; rat; Incoordination, mortality, red blood cell destruction causing abnormal decrease in number of red blood cells (anemia)

### Carcinogenicity

Indoxacarb: Animal testing did not show any carcinogenic effects.

Tests on bacterial or mammalian cell cultures did not show mutagenic effects.  
Did not cause genetic damage in animals.

Other Toxicity Information

None

Toxicity of Other Components

Inert Ingredients (99.78%)  
Not Applicable

Target Organs

Active Ingredients

Indoxacarb: Nervous system

Inert Ingredients

Inert Ingredients: Not Applicable

## 12. ECOLOGICAL INFORMATION

Ecotoxicity Effects

Indoxacarb:

Fish (Rainbow Trout) 96-hour LC50 0.65 mg/l

Bird (Bobwhite Quail) LD50 Oral 98 mg/kg

Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 0.60 mg/l

Environmental Fate

Indoxacarb:

Information given is based on data on the components and the ecotoxicology of similar products.

Environmental Hazards: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.

## 13. DISPOSAL CONSIDERATIONS

Disposal

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

## 14. TRANSPORT INFORMATION

DOT Classification

Ground Transport - NAFTA  
Not regulated.

Comments

Water Transport - International  
Not regulated.

Air Transport  
Not regulated.

## 15. REGULATORY INFORMATION

### EPCRA SARA Title III Classification

Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: Not Applicable

### California Proposition 65

Not Applicable

### CERCLA/SARA 304 Reportable Quantity (RQ)

Not Applicable

### RCRA Hazardous Waste Classification (40 CFR 261)

Not Applicable

### TSCA Status

Exempt from TSCA, subject to FIFRA

## 16. OTHER INFORMATION

### NFPA Hazard Ratings

Health: 1  
Flammability: 1  
Instability: 0

### HMIS Hazard Ratings

Health: 1  
Flammability: 1  
Reactivity: 0

0	Minimal
1	Slight
2	Moderate
3	Serious
4	Extreme

For non-emergency questions about this product call:

1-800-334-9481

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The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

End of MSDS