



# Insecticide

For use in single and multi-family residential buildings, schools, institutional, commercial and industrial facilities (including warehouses, apartments, supermarkets, restaurants, motels, hotels, hospitals, daycares, and food handling/storage/processing establishments) and transportation equipment such as aircraft, trains, ships, boats and buses.

**Active Ingredient:**

Indoxacarb\*  
 (S)-methyl 7-chloro-2,5-dihydro-2-[[[(methoxy-carbonyl) [4(trifluoromethoxy)phenyl]amino]-carbonyl]indeno[1,2-e] [1,3,4]oxadiazine-4a-(3H)-carboxylate . . . . . 20.0%

**Other Ingredients** . . . . . 80.0%

**Total:** . . . . . 100.0%

\*Indoxacarb belongs to the oxadiazine chemical class.

## 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. 100-1501**

**EPA Est. No. 67545-AZ-1**

**Product of USA**



FIRST AID	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• 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 a doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>HOT LINE NUMBER</b> For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), <b>Call 1-800-888-8372</b>	

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Harmful if inhaled. Avoid breathing (dust, vapor or spray mist). Remove contaminated clothing and wash clothing before reuse.

### PERSONAL PROTECTIVE EQUIPMENT

All pesticide handlers (mixers, loaders and applicators) must wear:

- Shirt and long pants
- Water-proof gloves
- Shoes plus socks

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

<b>USER SAFETY RECOMMENDATIONS</b> <b>USERS SHOULD:</b> Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
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### 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.

Read entire label before using this product. Syngenta will not be responsible for losses or damages resulting from use of this product in any manner not specifically stated on this label or other labels or bulletins published by Syngenta. User assumes all risks associated with such non-specified use.

### PRODUCT INFORMATION

ARILON® is a water dispersible granule concentrate which contains the non-repellent active ingredient indoxacarb. When applied following label directions, Arilon is effective at controlling a wide range of listed insect pests common in urban environments.

After dilution in water, Arilon forms a suspension for making applications. Arilon is formulated to not stain or damage building surfaces where water applied alone causes no damage. It is still recommended that before a first application is made, treat a small area and allow to dry to determine whether staining will occur.

#### Ants

Ants contacting hard surfaces recently treated with Arilon (or fresh deposits) may transfer lethal doses to other (untreated) ants.

Brief or limited exposures to fresh Arilon deposits on porous or non-porous surfaces (or across a wide range of surfaces) are still effective at killing ants.

#### Flies

Arilon applied to hard surfaces (i.e., non-porous or indoortype environments) is effective at controlling house flies and fruit flies.

### APPLICATION MIXING DIRECTIONS

#### Dilution Chart for Arilon:

Volume (gal) of Water to Use	Desired End Use Application Rate	Quantity of Arilon (Dry Oz) needed
1	0.05%	0.33 oz
	0.10%	0.66 oz
3	0.05%	1.0 oz
	0.10%	2.0 oz
5	0.05%	1.7 oz
	0.10%	3.3 oz
25	0.05%	8.25 oz
	0.10%	16.5 oz
50	0.05%	16.5 oz
	0.10%	33.0 oz

#### Steps When Mixing:

**IMPORTANT: Do not pour Arilon into an empty tank.**

- Clean application tank prior to using Arilon .
- Fill application tank with water to about half of desired volume.
- Appropriate amount of Arilon is now poured into tank.
- Agitate.
- Fill tank with remaining half volume of water and agitate again.
- Now ready to apply. If treatment mixture sits in the tank for extended periods, re-agitate prior to application.

### APPLICATION VOLUMES

For indoor use, apply no more than 1 gallon (gal) per 1,000 square feet (sq ft). For exterior use with backpack or other hand sprayers, 1–4 gal per 1,000 sq ft is recommended. The maximum volume for exterior use is 4 gal per 1,000 sq ft. For exterior use on medium to heavy infestations of pests, porous surfaces, complex sites such as dense perimeter landscaping, or for maximum residual performance, use higher specified volumes.

### Large Volume Exterior Applications

If applying Arilon to exterior of structures using high volume power spray equipment, Arilon can be diluted to less than 0.05% concentration. For example, if targeted spray volume is 5 gal of spray per 1,000 sq ft, mix 0.33 ounce (oz) [1 packet] per 5 gal of water. If targeted spray volume is 10 gal of spray per 1,000 sq ft, mix 0.33 oz [1 Packet] per 10 gal of water. This mix rate and application volume will ensure proper coverage and distribution of the insecticide. These types of spray volumes may be necessary for exterior applications to dense vegetation, mulch or other challenging areas around structures.

### GENERAL HOUSEHOLD PESTS

Pests Controlled	Concentration of Active Ingredient in Final Dilution	Rates for Mixing
Ants Beetles Boxelder bugs Carpenter bees <sup>2</sup> Centipedes Cockroaches Crickets Earwigs Fleas Flies <sup>3</sup> Grasshoppers Kudzu bugs Millipedes Pantry Pests (including beetles such as granary weevil and saw-toothed grain beetle) Pillbugs Silverfish Sowbugs Springtails Stink bugs (including brown marmorated stink bug) Termites <sup>4</sup> Wasps <sup>2</sup>	0.05% – 0.1% <sup>1</sup>	To mix 0.05% concentration: Use 0.33 oz Arilon per gal water.  To mix 0.1% concentration: Use 0.66 oz Arilon per gal water.

<sup>1</sup>For heavy infestations or extreme environmental conditions, use the higher rate listed.

<sup>2</sup>Arilon is not a quick knockdown agent.

<sup>3</sup>For stable flies or permethrin-resistant house flies, use higher concentration (0.1%).

<sup>4</sup>This product is not to be used as sole protection against termites, as it is not designed to offer structural protection and will not prevent future infestations. Refer to section on termites for further information.

### APPLICATION DIRECTIONS

#### Ants

Arilon is effective at controlling ants. Apply using a treatment solution containing 0.05%–0.1% indoxacarb in water (refer to Arilon dilution chart). For heavy infestations of ants and/or extreme environmental conditions, use the 0.1% rate.

**Indoors:** Apply Arilon using a coarse low-pressure spray as a spot or crack and crevice treatment at a maximum volume of 1 gallon per 1,000 square feet that targets active ant trails, nests, or other infested areas or areas suspected to be infested. Also make direct applications to areas including, but not limited to, pest entry sites, attics, wall voids, behind cabinets or equipment, under counters or appliances, along baseboards and reticulation systems. Arilon may be applied as a crack and crevice or spot application using ULV equipment such as a Micro Injector® or Actisol® machine.

**Outdoors:** Apply Arilon using a coarse, low-pressure spray as a spot, crack and crevice, general surface or perimeter banded treatment to control or prevent ant infestations. A perimeter band of 10 ft, for example, can include 3 ft up the exterior wall and out to 7 ft of horizontal substrate away from the wall base. Treat heavier infestations or more complex substrates such as stone or brick with greater volumes of treatment solution. Refer to volume directions earlier in this label for more information. In addition to exterior structural elements, outdoor nesting sites such as refuse collection areas, flower/mulch beds, adjacent tree holes, surrounding turf areas, crawl spaces, or other nest/foraging sites, and foraging trails can be treated. Treat ant nests or mounds directly using 1–2 gal of treatment dilution per mound. Surfaces commonly used by ants for foraging such as outdoor edges/frames of windows, doors, utility penetrations, roof lines or eaves, and other structural edges may also be treated.

**Beetles, Boxelder Bugs, Centipedes, Crickets, Earwigs, Grasshoppers, Kudzu Bugs, Millipedes, Pillbugs, Silverfish, Sowbugs, Springtails and Stink Bugs**

Arilon is effective at controlling beetles, boxelder bugs, centipedes, crickets, earwigs, grasshoppers, kudzu bugs, millipedes, pillbugs, silverfish, sowbugs, springtails and stink bugs. Apply using a treatment solution containing 0.05%–0.1% indoxacarb in water (refer to dilution chart). For heavy infestations and/or extreme environmental conditions, use the higher listed rate.

**Indoors:** Apply Arilon using a coarse low pressure spray as a spot or crack and crevice treatment at a maximum volume of 1 gallon per 1,000 square feet that targets infested areas or areas suspected to be infested. Direct applications can be made to areas including, but not limited to, pest entry sites, attics, wall voids, behind cabinets or equipment, under counters or appliances, along baseboards, storage rooms, garage areas, basements and reticulation systems.

**Outdoors:** Apply Arilon using a coarse, low pressure spray as a spot, crack and crevice, general surface or perimeter band-type treatment to control listed insect pests and to help prevent these nuisance pests from invading the structure. A perimeter band of 10 ft, for example, can include 3 ft up the exterior wall and out to 7 ft of horizontal substrate away from the wall base. Treat heavier infestations or more complex substrates such as stone or brick with greater volumes of treatment solution. Refer to volume directions earlier in this label for more information.

**Carpenter Bees**

Arilon is effective at killing carpenter bees. Direct application to bees and their nests should be made including use of foam to improve treatment to galleries.

When treating bee galleries, ensure complete coverage of wood surfaces. Note: Arilon will provide adequate control but is not a quick knockdown agent.

**Cockroaches**

Arilon is effective at controlling cockroaches. Apply using a solution containing 0.05%–0.1% indoxacarb in water (refer to Arilon dilution chart). For heavy infestations of cockroaches and/or extreme environmental conditions, use the higher listed rate.

**Indoors:** Apply Arilon using a coarse, low pressure waterbased spot or crack and crevice treatment at a maximum volume of 1 gallon per 1,000 square feet that targets areas of cockroach infestation or areas known or suspected to be cockroach harborage sites. Direct applications can be made to areas including, but not limited to, pest entry sites, attics, wall voids, behind cabinets or equipment, under counters or appliances, along baseboards and reticulation systems. Arilon may be applied as a crack and crevice or spot application using ULV equipment such as a Micro Injector® or Actisol® machine.

**Outdoors:** Apply Arilon using a coarse, low pressure spray as a spot, crack and crevice, general surface or perimeter bandtype treatment to control or prevent cockroach infestations. A perimeter band of 10 feet (ft), for example, can include 3 ft up the exterior wall and out to 7 ft of horizontal substrate away from the wall base. Treat heavier infestations or more complex substrates such as stone or brick with greater volumes of treatment solution. Refer to volume directions earlier in this label for more information. In addition to exterior structural elements, outdoor breeding sites such as refuse collection areas, loading docks, adjacent tree holes, crawl spaces, or other sources of cockroach infestations should be located and receive a treatment.

**Fleas**

Arilon is effective at killing flea larvae and adults. Indoors: Direct application as crack and crevice or spot treatment to and around pet bedding areas and other known breeding areas of adult or larval fleas.

**Outdoors:** Direct application as spot or broadcast treatment within perimeter of structures known to harbor fleas. Use of higher volume (2–4 gal/1,000 sq ft) will provide better coverage in most outdoor substrates such as lawn, mulch, and other flea breeding areas.

**Flies (including permethrin-resistant house flies)**

Arilon is effective at killing house flies, fruit flies and other filth/flesh flies. Arilon is also effective at killing stable flies and permethrin-resistant house flies using a higher concentration (0.1%) spray dilution.

**Indoors:** Apply as a crack and crevice or spot application to fly resting areas at a maximum volume of 1 gallon per 1,000 square feet.

**Outdoors:** Apply as a spot or surface/broadcast application directly to flies or to fly resting areas. Use of higher volumes (2–4 gal/1,000 sq ft) will provide better coverage in/on many outdoor substrates/areas.

**Pantry Insect Pests**

Before application of Arilon, infested food materials must be removed/discarded. For control of pantry insect pests/stored product insect pests, including beetles such as granary weevil and saw-toothed grain beetle, apply Arilon as crack and crevice or spot treatment at a maximum volume of 1 gallon per 1,000 square feet to infested areas focusing on cracks in food storage areas, closets, cabinets, shelving and baseboards. Direct application to pantry insect pests will provide best results. Do not apply directly to food. Remove or cover any remaining food items or food serving surfaces.

**Termites**

Arilon will kill subterranean termite species of *Coptotermes*, *Heterotermes*, *Reticulitermes*, and *Zootermopsis* dampwood termites. This product will kill workers and/or winged reproductive forms of termites present at the time of application only. Application of this product will not provide structural protection nor substitute for mechanical alteration, soil or foundation treatment with termiticide. This product is not to be used as sole protection against termites, as it is not designed to offer structural protection and will not prevent future infestations. A professional inspection is recommended.

Arilon can be applied as a spot treatment to kill active termites by applying as a coarse liquid spray at 1 gal per 10 sq ft of infested area. Treat infested sites directly. Apply using a treatment solution containing 0.05%–0.1% indoxacarb in water (refer to Arilon dilution chart). For heavy infestations of termites and/or extreme environmental conditions, use the higher listed rate.

## Wasps

Arilon is effective at killing wasps. Direct application to insects including nests should be made with pin stream or coarse spray. Ensure complete coverage when treating nests directly. Note: Arilon will provide adequate control but is not a quick knock-down agent.

## FOOD HANDLING ESTABLISHMENTS

(Food handling establishments are places other than private residences in which food is held, processed, prepared or served.)

**Applications in Nonfood Areas:** Arilon may be used as a spot or crack and crevice treatment at a maximum volume of 1 gallon per 1,000 square feet to control cockroaches in residential structures and the non-food areas of commercial, industrial, public and institutional buildings/structures, including restaurants, warehouses, food processing plants, supermarkets, hospitals, nursing homes, motels, hotels, schools, daycares, laboratories, computer facilities, aircraft, buses, boats/ships, trains, pet shops and zoos.

Nonfood/non-feed areas include areas such as garbage rooms, lavatories, floor drains (to sewers), entries, and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after bottling or canning). Refer to section below for use directions and restrictions when making applications in food/feed handling areas of Food/Feed Handling Establishments.

**Applications in Food/Feed Handling Areas:** Application to food/feed areas of food/feed handling establishments may be used as a spot or crack and crevice treatment at a maximum volume of 1 gallon per 1,000 square feet.

Food and feed handling areas include areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing edible waste storage, and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas are also considered a food/feed area when food is exposed and facility is in operation.

Apply into cracks and crevices using equipment designed to deliver a pin stream between different elements of construction, between floor and equipment, openings to voids and hollow spaces in walls, bases and equipment.

### Specific Restrictions:

- Do not apply to areas or surfaces where food/feed, food utensils or food processing surfaces may come into contact and become contaminated.
- Do not apply to areas that are routinely washed such as cracks and crevices in tops of tables, food/feed preparation and prepared food holding surfaces.

## RE-TREATMENT DIRECTIONS

Application to specific areas previously untreated can be treated as necessary. Typical or maintenance applications can be made as frequently as necessary up to a maximum of once per month. For heavy infestations of insect pests that require more than one treatment application to gain control, retreatment is allowed 7 days after initial application.

## USE RESTRICTIONS

- Not for use on plants being grown for sale or other commercial use, or for commercial seed production.
- Do not formulate this product into other end-use products without written permission of Syngenta.
- Do not apply this product through any type of irrigation system.

- Do not apply this product in commercial nurseries and greenhouses or on sod farms.
- Keep people and pets away from treated areas until treatment has dried.
- Do not apply a broadcast or general surface application to interior surfaces of residential or commercial structures.
- Do not apply this product to pets, edible crops, or sources of electricity.
- Do not use water base sprays of Arilon in or on electrical equipment due to possible shock hazard.
- At residential sites, all food processing surfaces and utensils in the treatment area must be covered during treatment or thoroughly washed before reuse.
- Do not apply this product in patient rooms or in any rooms being occupied including the elderly or infirmed.
- Do not apply when classrooms are in use.
- Do not apply to institutions (i.e., libraries, recreational facilities, etc.) when occupants are present in the immediate area/room being treated.
- Do not clean equipment near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

## STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage.

**Pesticide Disposal:** Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional office for guidance.

## CONTAINER HANDLING

Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable Container" or "Refillable Container" designation.

**Nonrefillable Plastic Containers (Capacity Equal to or Less Than 50 Pounds):** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 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, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

## 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.

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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  
**SCP 1501-L4 1013**