

# Optashield<sup>®</sup> CS

## Controlled Release Insecticide

- With SmartCap<sup>™</sup> Technology

For broad spectrum residual control of crawling, flying, and wood infesting insect pests, indoors and outdoors.

This product is intended for use as a surface, spot, **Crack & Crevice<sup>®</sup>**, or void application in, on, and around buildings and structures and their immediate surroundings, and in trucks, trailers, and other transportation vehicles.

**PERMITTED AREAS OF USE INCLUDE:** Calf Hutches, Calving Pens and Parlors, Dairy Areas, Dog Kennels, Hog Barns, Homes, Horse Barns, Milk Rooms, Poultry Houses, Trucks/Trailers, Warehouses and Other Commercial and Industrial Buildings

**ACTIVE INGREDIENT:**

Cyfluthrin ..... 6.0%

**OTHER INGREDIENTS:** ..... 94.0%

**TOTAL:** ..... 100.0%

EPA Reg. No. 499-477

EPA Est. No.

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

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.)

Refer to full label for **First Aid, Precautionary Statements, Directions For Use,** and **Conditions of Sale and Warranty.**

**In case of an emergency endangering life or property involving this product,  
call day or night 1-800-832-HELP (4357).**

### NET CONTENTS:

BASF Agricultural Solutions US LLC  
2 TW Alexander Drive  
Research Triangle Park, NC 27713

  
We create chemistry

FIRST AID	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes</li> <li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eyes.</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>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes</li> <li>• Call a poison control center or a doctor for treatment advice.</li> </ul>
HOTLINE NUMBER	
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Agricultural Solutions US LLC (hereafter "BASF") for emergency medical treatment information: 1-800-832-HELP (4357).</p>	

## Precautionary Statements

### Hazards to Humans and Domestic Animals

**CAUTION.** Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

### Environmental Hazards

This product is extremely toxic to fish and aquatic invertebrates. Remove from premises or tightly cover fish tanks and disconnect aerators when applying indoors where such containers are present. **DO NOT** apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. To protect the environment, **DO NOT** allow pesticide to enter or run off into storm drains, drainage ditches, gutters, or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems.

## Directions For Use

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

### Use Restrictions

- **DO NOT** apply to humans, their clothing, or bedding. **DO NOT** allow children or pets to contact treated surfaces until spray has dried.
- **DO NOT** use on household pets. Cover fish tanks prior to application.
- **DO NOT** apply this product in patient rooms while occupied or in any rooms while occupied by the elderly or infirm.
- **DO NOT** apply to classrooms when in use.
- **DO NOT** contaminate food, feedstuffs, or water supply. **DO NOT** contaminate food preparation surfaces, kitchen utensils, dishes, or feed storage containers. Cover all

food/feed contact surfaces and cooking utensils during treatment or thoroughly wash before using.

- **DO NOT** apply water based sprays of this product to conduits, motor housing, junction and switch boxes, or other electrical or electronic equipment because of possible shock hazard or damage. **DO NOT** spray where electrical short circuits might result, such as wall outlets, conduits, etc.
- **DO NOT** make outdoor applications during rain.
- **DO NOT** apply this product through any type of irrigation system.
- **DO NOT** water the treated area to the point of runoff.
- **DO NOT** apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or **Crack & Crevice**® treatment. During application, **DO NOT** allow pesticide to enter or runoff into storm drains, drainage ditches, gutters, or surface waters.
- All outdoor applications, if permitted elsewhere on this label, must be limited to spot or **Crack & Crevice** treatments only, except for the following permitted uses, if allowed elsewhere on this label:
  1. Applications to soil or vegetation, as listed on this label, around structures;
  2. Applications to lawns, turf, and other vegetation, as listed on this label;
  3. Applications to the side of a building, up to a maximum height of 3 feet above grade;
  4. Applications to the underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
  5. Applications around potential pest entry points into buildings, when limited to a surface band not to exceed 1 inch in width;
  6. Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch, or other vegetation, as listed on this label, and not over an impervious surface, drainage, or other condition that could result in runoff into storm drains, drainage ditches, gutters, or surface waters, in order to control occasional invaders or aggregating pests.

- **DO NOT** apply directly to sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies or aquatic habitat can occur, except as directed by this label.

## STORAGE AND DISPOSAL

**DO NOT** contaminate water, food, or feed by storage or disposal.

### Pesticide Storage

Store in original container in secured, dry storage area. Prevent cross-contamination with other pesticides or fertilizers. **DO NOT** store above 122°F for extended periods of time. Preferred storage is above 32°F. Storage below 32°F may result in solidification. If warmed to above 32°F, product will return to original form. Freezing does not adversely affect this product. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

### Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility. If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representatives at the nearest EPA Regional Office for guidance.

### Container Handling

**Nonrefillable container. DO NOT reuse or refill this container.** Empty the container by using the product according to the label directions. Triple rinse the container (or equivalent) promptly after emptying; then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Triple rinse containers small enough to shake (capacity ≤ 5 gallons) as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. 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.

**Triple rinse containers too large to shake (capacity > 5 gallons) as follows:** Empty remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

## In Case of Emergency

In case of large-scale spill of this product, call:

- CHEMTREC 1-800-424-9300
- BASF 1-800-832-HELP (4357)

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment
- Your local poison control center (hospital)
- BASF 1-800-832-HELP (4357)

## Product Information

This product is a liquid capsule suspension containing 6% cyfluthrin which will provide extended residual control of the pests listed on this label. This product may be applied using compressed air, backpack, or power spray equipment. Thoroughly clean spray equipment before using this product. Shake concentrate well before mixing. First add approximately 1/2 the required water to the tank, then add the proper amount of concentrate. Agitate, add the remaining water, and thoroughly agitate the solution again. When emptying the bottle, triple rinse with water and add the rinsate to the spray tank. Continue to agitate solution occasionally during use to ensure even coverage. Shake or reagituate solution if spraying is interrupted or if dilution is left in sprayer overnight. If spray screens are used, they should be ≥ 50 mesh. Water may be used at temperatures up to 160°F.

This product may be sprayed on any surface which will not be damaged or stained by water. Heavy applications may leave a visible deposit. On some surfaces this deposit can be removed with a damp cloth or sponge.

## Surface Applications

Use 1.0 to 2.0 fluid ounces of concentrate per 1,000 square feet in sufficient water to adequately cover the area being treated without dripping or runoff. The higher rate should be used for clean-outs, for longer residual control, or for heavy insect infestations.

Mixing Chart			
Optashield® CS (fluid ounces)	Tank Size (gallons)	Coverage in Square Feet	
		Low Rate	High Rate
1.0	1.0	1,000	500
1.0	2.5	1,000	500
2.0	25.0	2,000	1,000
4.0	50.0	4,000	2,000
8.0	50.0	8,000	4,000
10.0	5.0	10,000	5,000
25.0	50.0	25,000	12,500

Apply as a coarse wet spray.

Apply to walls; floors; ceilings; in and around cupboards; between, behind, and beneath equipment and appliances; around floor drains, window and door frames, and light fixtures; and on the underside of shelves, drawers, and in similar areas. Applications may also be made to floor surfaces, along walls, and around air ducts.

As a perimeter spray to help prevent pest infestations, treat a band of soil 6 to 10 feet wide around and adjacent to the building or structure. Also treat the building foundation and sides, up to a maximum height of 3 feet, where pests are active and may find entrance. Treat other insect entry points such as doors, windows, and under siding and eaves of structure.

## Spot, Crack & Crevice®, or Void Applications

Mix 1.0 to 2.0 fluid ounces of concentrate in 1 gallon of water. Use the higher rate for clean-outs, for longer residual control, or for heavy insect infestations.

	Optashield® CS (fluid ounces)	Finished Spray (gallons)	AI Concentration
<b>Low Rate</b>	1.0	1.0	0.05%
<b>High Rate</b>	2.0	1.0	0.10%

Use a low pressure system with a pin point or variable pattern nozzle to apply the suspension in specific areas such as cracks and crevices in or behind baseboards, in floor walls and expansion joints, areas around water and sewer pipes, wall voids or voids in table legs and equipment where pests can hide as well as other similar areas. Spot treatments may also be made to areas such as storage areas, closets, doors and windows, behind and under refrigerators, cabinets, sinks, stoves and other equipment, and the underside of shelves, drawers, and similar areas.

## Indoor Treatments

For indoor pests and occasional invaders, make applications in a manner as previously described under **Surface Applications** and/or **Spot, Crack & Crevice®, or Void Applications**. Pay particular attention to entry points and harborage areas.

**DO NOT** use in food/feed areas of food/feed handling establishments, restaurants, or other areas where food/feed is commercially prepared or processed. **DO NOT** use in serving areas while food/feed is exposed or facility is in operation. Serving areas include areas where prepared foods are served, such as dining rooms, and exclude areas where foods may be prepared or held. In the home, cover all food/feed processing surfaces and utensils during treatment or thoroughly wash before using. Cover or remove exposed food/feed. Non-food/feed areas are areas such as garbage rooms, rest rooms, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling).

## Flies

Make spot applications on surfaces where flies rest in the dark at night or frequent during the day, such as window frames, screens, trash cans, ceilings, and upper wall surfaces.

## Ants

Inject cracks, crevices, and voids where ants may be traveling and/or harboring such as around doors, window frames, and other structural cracks, crevices, and voids. Spot treatment of trails and feeding areas may also be made.

## Other Crawling Insects, including Centipedes, Cockroaches, Crickets, Dermestids, Earwigs, Firebrats, Millipedes, Psocids, Silverfish, Sowbugs, and Spiders

Make spot treatment and/or **Crack & Crevice** injections into hiding places such as cracks and crevices, void areas, moist areas, openings around pipes and sinks, and under refrigerators. Repeat application as necessary, but not more than twice per week. Treatments must be at least 3 days apart.

## Ticks

Apply as a spot and/or **Crack & Crevice** treatment in infested and egg laying areas such as pet resting quarters, nearby cracks and crevices, behind baseboards, door, and window frames. Replace pet's old bedding with clean, fresh bedding after treatment. **DO NOT** treat pets with this product. Repeat application as necessary, but not more than twice per week. Treatments must be at least 3 days apart.

## Outdoor Treatments

Follow the instructions for outdoor applications under **Use Restrictions**. Apply to and around buildings, porches, window frames, eaves, patios, garages, garbage dumps, and other areas where pests congregate or enter premises.

As a perimeter treatment, make applications in a manner previously described under **Surface Applications**.

## Flies

Treat outside surfaces of screens, doors, window frames, or wherever flies enter. Also treat surfaces on porches, in garages, and other places where insects alight or congregate. Treat normal fly resting areas such as ceilings, upper corners of the area, around windows and doors, and other surfaces. Treat inside and outside surfaces of dumpsters and other trash holding containers. Treat trash storage areas. Treat so as to lightly moisten the target surface. For best results, begin treatments at the start of the fly season and repeat during periods of heavy fly activity. Treat no more than twice per week and at least 3 days apart.

## Crawling Insects, including Ants, Cockroaches, Crickets, Earwigs, Sowbugs, Scorpions, and Spiders

For treatment of infestations of these insects in outdoor areas which are landscaped, planted, mulched, or

unmaintained. For ants, treat mounds and runways. Repeat applications as infestation warrants and as reinfestation occurs. Apply to cracks and crevices where insects may enter premises. Treat areas such as weep holes, under siding, wall voids, soffits, around attic vents, cracks and crevices, openings around windows, doors, and pipes. Treatment of infested fences and tree holes is permitted.

### Fleas

Treat infested areas. This product kills fleas on contact but does not provide residual control.

### Mosquito Control Outdoors

Not for use in wide area local, state, or federal mosquito control programs. To control adult mosquitoes, use hand-held, back-pack, or truck mounted sprayers only. Not for use with truck mounted cold aerosol ULV sprayers, hand-held cold aerosol ULV sprayers, or thermal fogging devices. **DO NOT** apply by aircraft. **DO NOT** apply through any kind of irrigation and/or lawn sprinkler systems.

Use up to 150 gallons of diluted spray per acre. Treat shrubbery, vegetation, and other areas where mosquitoes may rest. Shrubby and vegetation around stagnant pools, marshy areas, ponds, and shorelines may be treated if applied as a wet spray. Direct application of this product to any body of water is prohibited.

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## Indoor and Outdoor Treatments

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### Carpenter Ants

Make spot and/or **Crack & Crevice**® applications to any trails, inside or outside around doors and windows, and other places where ants enter premises. Treat areas such as atriiums, crawl spaces, ceilings, garages, soffits, wall voids, weep holes, and other void areas. Where possible, treat ant nests or infested wood directly. Repeat application as necessary, but not more than twice per week. Treatments must be at least 3 days apart.

### Bees, Wasps, and Yellowjackets

As a preventative or remedial treatment to help prevent these insects from building nests or workers from congregating on structures, follow perimeter treatment directions under **Surface Applications** section of label. Pay particular attention to soffit and eave areas.

For treatment of a yellowjacket or wasp nest, liberally treat the nest, inside the nest for yellowjackets and the surrounding area. For treatment of nests inside wall voids, inject into each nest a sufficient quantity to treat the complete nest. More than one point of application may be required. Most applications should require no more than a 1/2 gallon of diluted material. Pay particular attention to what the product may contact such as electrical wiring.

**DO NOT** use where there is a shock hazard.

THIS PRODUCT DOES NOT PROVIDE INSTANT KNOCK-DOWN. THE BEST TIME TO TREAT IS LATE IN THE DAY. COLONY SHOULD BE DEAD IN TWO TO THREE DAYS. DEPENDING ON THE SITUATION, PROTECTIVE EQUIPMENT FOR THE APPLICATOR MAY BE REQUIRED.

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## Use In and Around Livestock Housing

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For use by pest control operators or livestock producers in livestock housing structures to control flying and crawling insects. Apply as a surface application and/or spot, **Crack & Crevice**, or void application. Make applications with a low pressure sprayer with suitable nozzles to achieve uniform coverage or with fogging or misting equipment. Best results are achieved when facilities are cleaned and indoor treatments are supplemented with outdoor perimeter applications.

**DO NOT** make indoor applications in areas of facility where animals other than cattle or horses are present.

**DO NOT** apply directly to animal feedstuffs or watering equipment.

### Fogging or Misting Application

Remove all animals from the facility to be treated. Cover all feeders and waterers, and close all vents, windows, and doors. After application, wait 1/2 hour and ventilate facility before entering.

### Flies

For residual control of flies including house flies and stable flies on outdoor surfaces and in animal areas such as dairy barns, dairy areas, milkrooms, calf hutches, calving pens and parlors, poultry houses, hog barns, horse barns, and kennels. Treat normal fly resting areas such as ceilings, screens, upper corners of the areas, around windows, doors and light fixtures, and other surfaces known to attract flies.

Initiate treatments at the beginning of the fly season and repeat during periods of heavy fly activity. Treat no more than twice per week and at least 3 days apart.

### Darkling Beetles

For residual control of darkling beetles and other insects in poultry houses at cleanouts and in between poultry grow-out periods.

Use as a general surface application on floors, litter, walls, ceilings, posts, and other surfaces where pests live and cause damage.

Use 1.0 to 2.0 fluid ounces per 1,000 square feet. Use the high rate for heavy infestations.

## Pests Controlled by this Product

	Indoor	Outdoor
<b>Crawling</b>	Ants Centipedes Cockroaches Darkling Beetles Dermestids Earwigs Firebrats Millipedes Psocids Silverfish Sowbugs Spiders	Ants Cockroaches Crickets Fire Ants Fleas Scorpions Spiders Ticks
<b>Flying</b>	Flies Gnats Mosquitoes Moths Yellowjackets Wasps	Bees Flies Hornets Mosquitoes Moths Yellowjackets Wasps
<b>Wood-infesting Pests</b>	Carpenter Ants Beetles	Carpenter Ants Beetles



## Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as environmental conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF Agricultural Solutions US LLC ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer. BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW: (A) BASF MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY, (B) BUYER'S EXCLUSIVE REMEDY AND BASF'S AND SELLER'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT, AND (C) BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.** BASF and the Seller offer this product, and the Buyer and User accept it, subject to these **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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BASF Agricultural Solutions US LLC  
2 TW Alexander Drive  
Research Triangle Park, NC 27713

  
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