

# OPTIMATE™ CS

## Controlled Release Insecticide

### Capvantage™ Technology

- For control of litter beetles, fleas, flies and other listed pests of livestock/poultry housing, pet kennels, railcars, trucks and trailers.
- Treats up to 24,000 square feet when treating for litter beetles.
- Can be used on entire footing, crack and crevice or banded applications.

Active Ingredient:

*Gamma*-cyhalothrin: Cyclopropanecarboxylic acid, 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl,cyano(3-phenoxyphenyl) methyl ester..... 5.9%

Other Ingredients ..... 94.1%

Total ..... 100.0%

Contains 0.5 pounds of active ingredient per gallon  
 Contains petroleum distillate.

### Keep Out Of Reach Of Children

## CAUTION      PRECAUÇION

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 label booklet for Directions for Use.

Apply this product directly to lawn or garden area. Water treated area as directed on this label. Do not water to the point of run-off.

Do not make applications during rain.

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

**Notice:** Shake well before use. Avoid freezing. Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health call SafetyCall Int'l at 1-866-897-8050.

EPA Reg. No. 67760-104-53883  
 EPA Est. 53883-TX-002

Manufactured for:  
 Control Solutions, Inc.  
 5903 Genoa-Red Bluff  
 Pasadena, TX 77507

# OPTIMATE™ CS

## Controlled Release Insecticide

**A microencapsulated insecticide for use in and around livestock/poultry housing, pet kennels, railcars, trucks/trailers and equipment storage sheds for control of litter beetles, flies, fleas, mosquitoes, ants, bees, wasps, crickets, pillbugs, scorpions, sowbugs, spiders, and ticks.**

**Keep Out Of Reach Of Children**

## CAUTION      PRECAUCION

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.)

Notice: Read entire label. Use only according to label directions.

Manufactured for:  
Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507

---

### Precautionary Statement

---

#### Hazards to Humans and Domestic Animals

**CAUTION:** Causes moderate eye irritation. Harmful if swallowed. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. Wear safety glasses or goggles, long sleeve shirt, long pants, shoes and socks, and chemical - resistant gloves. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

Skin exposure may also result in a sensation described as tingling, itching, burning or prickly feeling. Onset may occur immediately to 4 hours after exposure and may last 2 to 30 hours, without damage. Wash exposed areas thoroughly with soap and water. Relief from skin sensation may be obtained by applying an oil-based cream.

#### First Aid

**If swallowed:** Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

**If in eyes:** 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.

**Note to Physician:** Induced vomiting as first aid for this substance may result in increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent. Vomiting should be induced only under professional supervision.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact **SafetyCall Int'l 1-866-897-8050** for emergency medical treatment information.

---

### Environmental Hazards

---

This pesticide is extremely toxic to fish and aquatic organisms and toxic to wildlife. This pesticide is extremely toxic to fish and aquatic organisms and toxic to wildlife. 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 to avoid run off to water bodies or drainage systems.

Do not allow applications to contact water inhabited by fish, such as aquariums and ornamental fish ponds that are located in and around structures being treated.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

---

### Physical and Chemical Hazards

---

Do not use or store near heat or open flame.

Do not use OPTIMATE CS in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard.

---

### Directions for Use

---

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

OPTIMATE CS is intended for broadcast surface application in non-food / non-feed areas, and crack and crevice or spot treatment in and around livestock/poultry housing, pet kennels, railcars, trucks and trailers. If necessary to maintain control, OPTIMATE CS may be reapplied at intervals of at least 21 days.

Do not dilute this product with oil.

Apply this product directly to lawn or garden area. Water treated area as directed on this label. Do not water to the point of run-off.

Do not make applications during rain.

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

Thoroughly wash out sprayer and screen with water and detergent before mixing OPTIMATE CS. Dilute OPTIMATE CS with water for application using a hand held or power operated sprayer. Fill the sprayer reservoir with about  $\frac{3}{4}$  the desired volume of water, add the required amount of OPTIMATE CS, then fill to the final volume desired. Shake well before use, occasionally during use, or after application is interrupted. Apply as a coarse spray for crack and crevice or spot and general surface treatments. Low volume equipment may also be used for crack and crevice application. Make up only as much dilution is required for each application.

Let treated surfaces dry before allowing humans and pets to contact these surfaces.

<b>Pests</b>	<b>Active ingredient concentration</b>	<b>Dilution Rate</b>
Flies (including House flies, stable flies, little house flies) Ants Bees Wasps	0.0075%	0.16 fl oz (5 mL) / gal water 0.5 fl oz (15 mL) / 3 gal water
Fleas (outdoors only)	0.015%	0.33 fl oz (10 mL) / gal water 1.0 – 2.0 fl oz (30 mL) / 3 gal water
Litter beetles* (including adults/immature stages of Darkling, Hide and Carrion beetles) Crickets Mosquitoes Pillbugs Sowbugs Scorpions Spiders Ticks	0.03%	0.65 fl oz (20 mL) / gal water 2.0 fl oz (60 mL) / 3 gal water
Note: One gallon typically treats 500 – 1000 sq. ft. * Use the 0.015% (0.33 fl oz (10 mL) / gal water) rate for light beetle infestation.		

**FLIES, FLEAS, MOSQUITOES, BEES AND WASPS:**

OPTIMATE CS may be used in non-food / non-feed areas, and crack and crevice or spot treatment in and around livestock/poultry housing, pet kennels, railcars, trucks and trailers and in and around equipment storage sheds. Apply as a residual surface treatment on walls, ceilings, window screens, and other insect resting areas.

**ANTS:** Apply to ant trails around doors and windows and other places where ants are found. Apply outdoor barrier treatments to prevent infestations as directed in BARRIER TREATMENTS.

**SPIDERS AND CRICKETS:** Apply a coarse, low pressure spray into cracks and crevices, under or behind baseboards, and other areas where insects hide such as corners, storage areas or cabinets, around water pipes, around door and window frames, and in attics and eaves.

**SOWBUGS AND PILLBUGS:** Apply to openings such as plumbing or utility access points, around doors and windows and other places where these pests may enter. Also treat storage areas and other dimly lit or damp locations. Apply barrier treatments to prevent infestation as described in BARRIER TREATMENTS.

**LIVESTOCK / POULTRY HOUSING STRUCTURES AND PET KENNELS**

OPTIMATE CS may be used as a general surface and/or crack and crevice treatment. Treat interior and exterior perimeter applications in and around livestock, poultry and pet housing structures for optimum control. Suitable cleaning practices of the structure must also be followed along with applications of OPTIMATE CS to effectively control the listed insects.

**LITTER BEETLES:** To control adult litter (darkling, hide and carrion beetles) beetles in animal housing, including poultry housing, apply OPTIMATE CS to walls and floors at each grow-out or sanitation procedure, before reintroduction of poultry or other animals. Re-apply after each grow-out or sanitation procedure to control beetles that escaped earlier treatment and delay the onset of further infestations. Beetles frequently occur in areas such as on walls, supports, cages, stalls and around feeders, so pay careful attention to these places. For poultry houses where birds are grown on litter, treat the floor area. For poultry houses where birds are grown in cages, treat the walls, posts, cage framing and into cracks and crevices around insulation. Also apply as a perimeter treatment around the outside of the building

foundations to prevent beetles from entering from outside. To prevent populations from reaching a problem level, a year-round maintenance program is highly recommended.

DO NOT make applications of OPTIMATE CS in areas where animals are present in the facility. Allow treated surfaces to dry completely before restocking the facility. DO NOT make applications to any animal feedstuffs, water or watering equipment. DO NOT contaminate any animal food, feed or water in and around livestock, poultry or pet housing when making applications.

### OUTDOOR SURFACES AND PERIMETERS

To control flies, fleas, mosquitoes, ants, bees, wasps, crickets, pillbugs, scorpions, sowbugs, spiders, ticks and other similar insect pests, apply OPTIMATE CS with either hand or power application equipment to external surfaces of buildings, screens, door and window frames, under eaves, eaves and other areas where insects rest or congregate. OPTIMATE CS may also be applied to lawns around non-residential buildings, or to refuse dumps or other non-residential areas where these insect pests congregate. For perimeter treatments spray the ground in a band 6 to 10 feet wide around and adjacent to the structure and to the foundation to a height of 2 to 3 feet, and to utility openings where pests may find an entry into the building. Uniformly wet the ground and foundation surface with a coarse, low- pressure spray. Typically, a volume of 1–5 gallons of treatment solution will cover 800–1600 square feet.

---

### INTEGRATED PEST AND RESISTANCE MANAGEMENT

---

Many insects have demonstrated the ability to develop resistance to insecticides. Frequent exposure of flies and other insects to a single class of insecticide may lead to the development of resistance to that class of insecticide. The following resistance management strategy will help ensure the prolonged usefulness of this and other conventional insecticides.

- Use OPTIMATE CS and other insecticides only according to label directions.
- Do not use less than the labeled rate of any insecticide.
- Include multiple cultural and/or biological controls within an Integrated Pest Management Program.
- Rotate OPTIMATE CS with other classes of insecticide (naturalytes, phenyl pyrazoles, chloronicotinyls, and organophosphates, etc.) during an insect pest season.

For advice concerning integrated pest management practices in relation to local conditions, consult resources in resistance management programs, your Cooperative Agricultural Extension Service.

### Storage and Disposal

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

**Pesticide Storage:** Store in original containers only. Keep container closed when not in use. Do not store near food or feed. Do not store near heat or open flame. **Do not allow product to freeze.**

**In case of spill or leak** on floor or paved surfaces, soak up with sand, earth or synthetic absorbent. Remove to chemical waste area.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If wastes cannot be disposed of according to label directions, contact your State Pesticide or Environmental Control Agency, or Hazardous Waste representative of the nearest EPA Regional Office for guidance. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

#### Nonrefillable Containers 5 gallons or less:

**Container Disposal:** Nonrefillable container. Do not reuse or refill this container. 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 or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** 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.

---

### **Terms and Conditions of Use**

---

If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies.

---

### **Warranty Disclaimer**

---

Control Solutions Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. To the extent consistent with applicable law, Control Solutions Inc. MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

---

### **Inherent Risks of Use**

---

It is impossible to eliminate all risks associated with use of this product. Lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Control Solutions Inc. or the seller. All such risks shall be assumed by buyer.

---

### **Limitation of Remedies**

---

To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Control Solution Inc's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used

To the extent consistent with applicable law, Control Solutions Inc. shall not be liable for losses or damages resulting from handling or use of this product unless Control Solutions Inc. is promptly notified of such loss or damage in writing. To the extent allowed by law, Control Solutions Inc. shall not be liable for special, indirect or consequential damages resulting from the use or handling of this product.

The terms of the Warranty Disclaimer, Inherent Risks of Use, and this Limitation of Remedies cannot Control Solutions Inc. or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.