

Safety Data Sheet

Fendona CS Controlled Release Insecticide

Revision date : 2020/05/18

Version: 1.0

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(30769370/SDS_CPA_US/EN)

1. Identification

Product identifier used on the label

Fendona CS Controlled Release Insecticide

Recommended use of the chemical and restriction on use

Recommended use*: crop protection product, insecticide

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

BASF Agricultural Solutions US LLC

2 TW Alexander Drive

Research Triangle Park, NC 27713

USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Substance number: 987311

EPA Registration number: 499-570

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Label elements

Pictogram:



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Signal Word:
Warning

Hazard Statement:

H401 Toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statement:

P102 Keep out of reach of children.

P103 Read label before use.

Precautionary Statements (Prevention):

P262 Do not get in eyes, on skin, or on clothing.

Precautionary Statements (Response):

P391 Collect spillage.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste collection point.

Hazards not otherwise classified

Labeling of special preparations (GHS):

May produce an allergic reaction. Contains: 1,2-benzisothiazol-3(2H)-one, mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

May cause paraesthesia. alpha-Cypermethrin

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

alpha-Cypermethrin

CAS Number: 67375-30-8

Content (W/W): 3.0 %

Synonym: No data available.

Diphenylmethane-4,4'-diisocyanate (MDI)

CAS Number: 101-68-8

Content (W/W): 0.1 - 1.0%

Synonym: Diphenylmethane diisocyanate; 4,4'-Methylenediphenyl diisocyanate

ethylenediamine

CAS Number: 107-15-3

Content (W/W): 0.1 - 1.0%

Synonym: 1,2-Ethanediamine; Ethylenediamine

bronopol

CAS Number: 52-51-7

Content (W/W): < 0.1%

Synonym: 2-Bromo-2-nitro-1,3-propanediol; Bronopol

Diphenylmethane Diisocyanate, isomers and homologues

CAS Number: 9016-87-9

Content (W/W): 0.1 - < 1.0%

Synonym: Isocyanic acid polymethylenepolyphenylene ester; Polymethylene

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polyphenylene isocyanate

4. First-Aid Measures

Description of first aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

If on skin:

Wash thoroughly with soap and water

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:

water spray, dry powder, foam, carbon dioxide

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, Hydrogen chloride, hydrogen bromide, nitrogen oxides, halogenated compounds, cyanides, silica compounds, sulfur oxides

The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Protective equipment for fire-fighting:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. Collect contaminated extinguishing water separately, do not allow to reach sewage

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or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

7. Handling and Storage

Precautions for safe handling

RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect against heat. Protect contents from the effects of light. Protect from air. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Avoid aerosol formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container is emptied. The substance/ product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Protect from temperatures below: 0 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 50 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

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8. Exposure Controls/Personal Protection

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

No occupational exposure limits known.

Personal protective equipment

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapours. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Hand protection:

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

Eye protection:

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

9. Physical and Chemical Properties

Form:	liquid
Odour:	odourless
Odour threshold:	not applicable, odour not perceivable
Colour:	opaque
pH value:	approx. 5 - 7 (20 °C)
Melting point:	< 0 °C Information based on the main components.
Boiling point:	approx. 100 °C Information applies to the solvent.
Flash point:	No flash point - Measurement made up to the boiling point.
Flammability:	not highly flammable

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Lower explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Autoignition:	Based on the composition, the product does not ignite
Vapour pressure:	The product has not been tested.
Density:	approx. 0.97 g/cm ³ (20 °C)
Vapour density:	not applicable
Partitioning coefficient n-octanol/water (log Pow):	not applicable
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	No data available.
Solubility in water:	(20 °C) dispersible
Evaporation rate:	not applicable
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

Conditions to avoid

See SDS section 7 - Handling and storage.

Incompatible materials

strong acids, strong bases, strong oxidizing agents

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

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11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact. Virtually nontoxic after a single ingestion. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Oral

Type of value: LD50

Species: rat

Value: > 5,000 mg/kg

Inhalation

Type of value: LC50

Species: rat

Value: > 5 mg/l

No mortality was observed.

Dermal

Type of value: LD50

Species: rat

Value: > 5,000 mg/kg

Assessment other acute effects

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation / corrosion

Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Skin

Species: rabbit

Result: non-irritant

Eye

Species: rabbit

Result: non-irritant

Sensitization

Assessment of sensitization: There is no evidence of a skin-sensitizing potential. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

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Buehler test
Species: guinea pig
Result: Non-sensitizing.

Aspiration Hazard

The product has not been tested. The statement has been derived from the properties of the individual components. No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: alpha-cypermethrin

Assessment of repeated dose toxicity: Repeated oral exposure may affect certain organs. Damages the peripheral nerve system.

Information on: Diphenylmethane Diisocyanate, isomers and homologues

Assessment of repeated dose toxicity: The substance may cause damage to the lung even after repeated inhalation of low doses, as shown in animal studies.

Information on: bronopol

Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation.

Information on: mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Assessment of repeated dose toxicity: After repeated exposure the prominent effect is local irritation. Based on available Data, the classification criteria are not met.

Genetic toxicity

Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Diphenylmethane Diisocyanate, isomers and homologues

Assessment of mutagenicity: The substance was mutagenic in various test systems with microorganisms and cell cultures; however, these results could not be confirmed in tests with mammals.

Information on: bronopol

Assessment of mutagenicity: The substance was mutagenic in a mammalian cell culture test system. No mutagenic effect was found in various tests with bacteria and mammals.

Information on: ethylenediamine

Assessment of mutagenicity: In the majority of studies performed with microorganisms and in mammalian cell culture, a mutagenic effect was not found. A mutagenic effect was also not observed in in vivo tests. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

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Information on: Diphenylmethane Diisocyanate, isomers and homologues

Assessment of carcinogenicity: A carcinogenic potential cannot be excluded after prolonged exposure to severely irritating concentrations. These effects are not relevant to humans at occupational levels of exposure. IARC Group 3 (not classifiable as to human carcinogenicity).

Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity

Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Other Information

Misuse can be harmful to health.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

The product has not been tested. The statement has been derived from the properties of the individual components.

Toxicity to fish

Information on: alpha-cypermethrin

LC50 (96 h) 0.00093 mg/l, Pimephales promelas (OPP 72-1 (EPA-Guideline), Flow through.)

Aquatic invertebrates

Information on: alpha-cypermethrin

EC50 (48 h) 12,6 ng/l, Chironomus riparius

Aquatic plants

Information on: alpha-cypermethrin

EC50 (7 d) > 0.00139 mg/l (growth rate), Lemna gibba (OECD Guideline 201)

No observed effect concentration (7 d) > 0.00139 mg/l (growth rate), Lemna gibba (OECD guideline 221, static)

EC50 (72 h) > 0.027 mg/l (growth rate), Anabaena flos-aquae (OECD Guideline 201)

Chronic toxicity to fish

Information on: alpha-cypermethrin

No observed effect concentration (34 d) 0,03 µg/L, Pimephales promelas (OPP 72-4 (EPA-Guideline), Flow through.)

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Chronic toxicity to aquatic invertebrates

Information on: alpha-cypermethrin

No observed effect concentration (21 d) 0,03 µg/L, Daphnia magna (OPP 72-4 (EPA-Guideline), semistatic)

Persistence and degradability

Assessment biodegradation and elimination (H2O)

The product has not been tested. The statement has been derived from the properties of the individual components.

Assessment biodegradation and elimination (H2O)

Information on: alpha-cypermethrin

Not readily biodegradable (by OECD criteria).

Bioaccumulative potential

Assessment bioaccumulation potential

The product has not been tested. The statement has been derived from the properties of the individual components.

Bioaccumulation potential

Information on: alpha-cypermethrin

Bioconcentration factor: 155 - 910 (73 d), Cyprinus carpio (OECD Guideline 305 C)

Mobility in soil

Assessment transport between environmental compartments

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: alpha-cypermethrin

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

13. Disposal considerations

Waste disposal of substance:

Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions,

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contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container disposal:

Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport Information

Land transport

USDOT

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains ALPHA-CYPERMETHRIN)

Sea transport

IMDG

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Marine pollutant:	YES
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains ALPHA-CYPERMETHRIN)

Air transport

IATA/ICAO

Hazard class:	9
Packing group:	III
ID number:	UN 3082
Hazard label:	9, EHSM
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains ALPHA-CYPERMETHRIN)

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US blocked / not listed

Crop Protection TSCA, US released / exempt

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

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Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

BASF Risk Assessment, CA Prop. 65:

Based on an evaluation of the product's composition and the use(s), this product does not require a California Proposition 65 Warning.

Labeling requirements under FIFRA

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 workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

CAUTION:

Causes moderate eye irritation.

Avoid contact with the skin, eyes and clothing.

Wash thoroughly after handling.

16. Other Information

SDS Prepared by:

BASF Agricultural Solutions US NA Product Regulations

SDS Prepared on: 2020/05/18

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

END OF DATA SHEET

Fendona™ CS

Controlled Release Insecticide

For both indoor and outdoor use

Smart Solutions Facts

Facts on this product include:

- A microencapsulated concentrate utilizing **SmartCap™ Technology**
- Broad use sites on label
- Tested on a broad range of surfaces to ensure minimal chance of any staining
- Ideally suited for both maintenance and clean-out spray programs
- Label flexibility to allow treatment of structural, lawn, and ornamental pests

KILLS: Ants, Aphids, Armyworms, Asian Lady Beetles, Bagworms, Bed Bugs, Bed Bug Eggs, Bees, Beetles, Billbugs (adults), Boxelder Bugs, Brown Marmorated Stinkbugs, Cadelles, Carpenter Ants, Carpenter Bees, Carpet Beetles, Caterpillars, Cheese Mites, Chiggers, Chinch Bugs, Chocolate Moths, Cigarette Beetles, Clothes Moths, Clover Mites, Cluster Flies, Cockroaches, Crickets, Cutworms, Darkling Beetles, Dermestids, Drugstore Beetles, Drywood Termites**, Earwigs, Elm Leaf Beetles, Fire Ants (foragers), Firebrats, Fleas, Flour Beetles, Fruit Flies (*Drosophila*), Fruitworms, Grain Weevils, Grasshoppers, Harvester Ants (foragers), Hide Beetles, House Flies, Indian Meal Moths, Japanese Beetles (adults), Kudzu Bugs, Lace Bugs, Larder Beetles, Leafrollers, Lesser Grain Borers, Lesser Mealworms, Litter Beetles, Loopers, Mealy Bugs, Mediterranean Flour Moths, Merchant Grain Beetles, Mealworms, Millipedes, Mosquitoes, Pharaoh Ants (foragers), Pillbugs, Plant Bugs, Psocids*, Psylla, Rice Weevils, Sawtoothed Grain Beetles, Scale Insects, Scorpions, Silverfish, Sod Webworms, Southern Fire Ants (foragers), Sowbugs, Spiders (including Black Widow and Brown Recluse), Springtails, Stable Flies, Tent Caterpillars, Thrips, Ticks, Warehouse Beetles, Whiteflies, Wood Wasps*, Wood Infesting Beetles and Borers*, and Yellowjackets

* Not registered for use in California.

** Not a substitute for mechanical alteration, soil treatment, or foundation treatment.

FOR USE IN AND AROUND:† Commercial, Industrial, and Residential Areas and Buildings [Agricultural Buildings; Airports; Animal Confinement Buildings and Pens; Apartments; Cafeterias; Calf Hutches; Calving Pens and Parlors; Campgrounds; Chicken Houses (empty); Churches; Commercial Buildings; Convenience Stores; Cruise Ships; Dairy Areas; Dairy Parlors; Day Care Centers; Dog Kennels; Egg Laying Facilities; Food Handling Facilities; Food Processing Plants; Food Storage Areas; Food Vendors; Garbage Receptacles and Corrals; Grain Mills; Granaries; Health Care Facilities; Hog Barns; Homes; Horse Barns and Arenas; Hospitals; Hotels; Industrial Buildings; Landscapes; Lawns; Libraries; Malls; Meat Packing Plants; Milkrooms; Motels; Museums; Nursing Homes; Ornamental Plants; Outdoor Living Areas; Poultry Houses; Rabbit Hutches; Recreational Areas; Resorts, Restaurants and other Food Handling Establishments; Schools; Supermarkets; Terminals; Theme Parks; Trailers; Transportation Equipment (Buses, Boats, Ships, Trains, Trucks, and Planes – cargo areas only); Utilities; Washrooms; and Warehouses]

† Not for use in food/feed areas of food/feed handling establishments.

ACTIVE INGREDIENT:

alpha-Cypermethrin: mixture of

(S)-α-cyano-3-phenoxybenzyl (1R,3R)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

and

(R)-α-cyano-3-phenoxybenzyl (1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate 3.0%

OTHER INGREDIENTS: 97.0%

TOTAL: 100.0%

EPA Reg. No. 499-570

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, Conditions of Sale and Warranty**, and/or state-specific use site restrictions.

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

NET CONTENTS:

BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709

BASF
We create chemistry

FIRST AID	
If in eyes	• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lenses, if present, after the first 5 minutes; then continue rinsing. • Call a poison control center or doctor for treatment advice.
HOTLINE NUMBER	
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 Corporation for emergency medical treatment information: 1-800-832-HELP (4357).	

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear long-sleeved shirt and long pants, socks, and shoes.

Environmental Hazards

This product is extremely toxic to fish and aquatic invertebrates, oysters, and shrimp. **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.

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 if bees are foraging in the treatment area.

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** allow to enter indoor or outdoor drains unless labeled for drain treatments. *No permita la entrada a desagües internos o externos a menos que el etiquetado indique que está permitido el uso del producto para tratamiento de desagües.*
- Follow proper disposal procedures on this label. *Siga las indicaciones del etiquetado para el desecho apropiado del producto.*



- **DO NOT** apply water-based sprays of this product to conduits, motor housing, junction and switch boxes, or other electrical equipment because of possible shock hazard. **DO NOT** spray where electrical short circuits might result, such as wall outlets, conduits, etc.
- **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 food storage containers. Cover any food/feed contact surfaces and cooking utensils in the treatment area during treatment or thoroughly clean before using.
- **DO NOT** use in food/feed areas of food/feed handling establishments, restaurants, or other areas where food/feed is commercially prepared or processed (see **Product Information** section for additional information).
- **DO NOT** use in outdoor residential misting systems.
- **DO NOT** apply this product through any type of irrigation system.
- **DO NOT** make applications during rain. Avoid making applications when rainfall is expected before the product has sufficient time to dry (minimum 4 hours). Rainfall within 24 hours after application may cause unintended runoff of pesticide application.
- **DO NOT** apply or irrigate to the point of runoff.
- For soil or foliar applications, **DO NOT** apply by ground within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds.
- **DO NOT** apply the product into fish pools, ponds, streams, or lakes, **DO NOT** apply directly to sewers or storm drains, or to any area like a drain or 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.
- **DO NOT** apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or **Crack & Crevice** treatment.
- All outdoor spray applications must be limited to spot or **Crack & Crevice** treatments only, except for the following permitted uses:
 1. Application to pervious surfaces such as soil, lawn, turf, and other vegetation;
 2. Perimeter band treatments of 7 feet wide or less from the base of a man-made structure to pervious surfaces (e.g., soil, mulch, or lawn);
 3. Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
 4. Applications around potential exterior pest entry points into man-made structures such as doorways and windows, when limited to a band not to exceed one inch;
 5. Applications to vertical surfaces (such as the side of a man-made structure) directly above impervious surfaces (e.g., driveways, sidewalks, etc.), up to 2 feet above ground level;
 6. Applications to vertical surfaces directly above pervious surfaces, such as soil, lawn, turf, mulch or other vegetation) only if the pervious surface does not drain into ditches, storm drains, gutters, or surface waters.

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.

(continued)

STORAGE AND DISPOSAL (continued)

Container Handling

Nonrefillable Container. DO NOT reuse or refill this container. Empty container by using the product according to the label directions. Triple rinse 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 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.

Product Information

This product is a concentrate of microencapsulated alpha-cypermethrin containing 0.25 pound of alpha-cypermethrin per gallon. From the testing done, one would not expect any surface which is not damaged by water to be damaged by this product, but it is best to check before applying to a new surface. Heavy applications may leave a visible deposit. On some surfaces, this deposit can be removed with a damp cloth or sponge. Dispose of cloth or sponge in trash.

In situations where conventional application methods have not or are not likely to provide adequate coverage, foam generating equipment or similar machines can be used to provide a continuous coverage. Use drier foam inside wall voids to avoid any water damage or electrical short circuits. Refer to **Foam Application Use Directions** section of label.

Reapplication Interval

Reapply as necessary, but not more than twice per week. Applications must be at least 3 days apart.

Mixing Instructions

Thoroughly clean spray equipment before using. Shake concentrate well before diluting. When diluting, first add approximately 1/2 of the water to the spray tank and then add the proper amount of concentrate. When emptying the bottles, triple rinse with water, shake well, and add the rinsate to the spray tank. Add the rest of the water and agitate the sprayer thoroughly. Agitate sprayer occasionally during use to ensure even mixture. Shake or reagituate sprayer if spraying is interrupted or if dilution is left in sprayer overnight. If spray screens are used, they should be 50 mesh or larger.

Spray Dilution Chart		
Amount of Finished Spray (gallons)	0.025% Spray Concentrate (fluid ounces)	0.050% Spray Concentrate (fluid ounces)
1	1.0	2.0
3	3.0	6.0
5	5.0	10.0
10	10.0	20.0

Use the higher rate for clean-outs, longer residual control, or for high insect infestations.

Void/Crack & Crevice Application

To treat insects harbored in cracks, crevices, and voids, applications must be made in such a manner to limit dripping and avoid runoff onto untreated structural surfaces and plants. Apply with equipment designed for void applications. Follow the manufacturer's recommendations for proper equipment set-up and operating pressures. Place the tip of the applicator at or into the crack or crevice to be treated. Apply product in short bursts while keeping tip in position. Allow the air stream to push insecticide deep into voids if one exists on the equipment. Treat surfaces to ensure thorough coverage but avoid runoff.

Spot Application

Apply at the rate of 1 second per 2 square feet or to the point of runoff. Direct nozzle approximately 12 inches from surface to be treated. Apply directly on insects in these locations when possible. Spot treatments must not exceed two square feet in size (for example, 2 ft. by 1 ft. or 4 ft. by 0.5 ft.).

Residual Control

- 90 days for fire ants on painted wood, unpainted wood, and ceramic tile
- 59 days for mosquitoes at 0.050% rate on leaf surfaces
- 30 days for mosquitoes at 0.025% rate on leaf surfaces
- 14 days for scorpions at 0.050% rate on porous surfaces

For applications to non-food/feed handling and service areas of food/feed handling establishments:

DO NOT apply when food is present. **DO NOT** use in food areas of food handling establishments, restaurants, or other areas where food is commercially prepared or processed. **DO NOT** use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared foods are served, such as dining rooms, but excluding areas where foods may be prepared or held.

Applications may be made in non food/feed areas: garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage areas (after packaging, canning, or bottling) and other areas where listed pests may be harboring, traveling, breeding, or entering the structure.

In the home, cover or remove exposed food prior to application. Cover food processing surfaces and utensils in the treatment area prior to application or wash thoroughly before use.

Apply as a **Crack & Crevice**, void, spot, or general surface application to selective surfaces: baseboards, under elements of construction, shelving, machinery, storage areas, and other areas where listed pests may be harboring, traveling, breeding, or entering the structure.

Indoor Applications

Dilute concentrate to 0.025% or 0.050% with water using the spray dilution chart.

Use as a **Crack & Crevice** residual product where insects may be hiding, living, and breeding and/or for selected spot application.

Cheese Mites, Cockroaches, Crickets, Dermestids, Earwigs, Firebrats, Millipedes, Psocids*, Silverfish, Sowbugs, and Spiders (including Black Widow and Brown Recluse)

Make spot treatment and/or **Crack & Crevice** injections into hiding places: cracks and crevices, void areas, moist areas, openings around pipes and sinks, and under refrigerators and shelves.

* Not registered for use in California.

Flies (Fruit and House)

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.

Carpet Beetles, Dermestids, and Clothes Moths

Treat along edges of carpet, under carpet edge, furniture, throw rugs, and as a **Crack & Crevice** and spot application in closets and other shelving where infested items are stored. **DO NOT** treat clothing with this product.

Bed Bugs and Bed Bug Eggs

Apply to cracks and crevices where evidence of bed bugs occurs. This includes bed frames, box springs, inside empty dressers and clothes closets, carpet edges, high and low wall moldings, and wallpaper edges. **DO NOT** use this product on mattresses, pillows, bed linens, or clothes. Remove all clothes and other articles from dressers or clothes closets before application. Allow all treated areas to dry thoroughly before use. Not recommended for use as sole protection against bed bugs. If evidence of bed bugs is found in/on mattresses, use a product approved for this use. For bed bug eggs, use the 0.050% rate.

Ticks

Apply as a spot and/or **Crack & Crevice** treatment in infested and egg laying areas: pet resting quarters, nearby cracks and crevices, behind baseboards, doors, and window frames. Replace pet's old bedding with clean fresh bedding after treatment. **DO NOT** treat pets with this product.

Ants (including foraging Pharaoh)

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

Stored Product Pests

(Exposed Adult and Immature Stages)

Before storing products, treat warehouses, production facilities, storage areas, rail cars, truck beds, and other areas where products are stored. Apply as a spot and/or **Crack & Crevice** treatment to cracks, crevices, and surfaces where pests have been seen or may have harborage. This product may be used to treat grain storage facilities and other listed areas for stored product pest control. Cleaning areas prior to use of this product will increase levels of control. Remove and destroy any food-stuffs infested with pests.

Foam Application Use Directions

This product can be converted to a foam and the foam used to treat structural voids to control insect and arthropod pests in walls, under slabs, or in other void areas. Apply as a dry foam (approximately 25:1). Fill void with foam so that all surfaces are contacted. Mix end-use dilution with manufacturer's recommended volume of foaming agent. Use the specified rate suspension converted to a foam to achieve the desired foam expansion ratios. Verify before treatment that the foaming agent is compatible with this product.

Indoor and Outdoor Applications

Select one of the following dilutions, 0.025% or 0.050% for pests listed below unless otherwise noted.

Active and Hibernating Stages of Asian Lady Beetles, Boxelder Bugs, Clover Mites, Cluster Flies, and Elm Leaf Beetles

As a preventative or remedial treatment, inject cracks, crevices and/or voids where these pests are or may harbor or hibernate. Treatable areas: cracks and crevices in weep holes, wall voids, around window and door frames, under siding, and other areas where listed pests may be harboring, traveling, breeding, or entering the structure. Treat wall area around entry points on exterior where pests congregate.

Scorpions

Using the 0.050% rate, treat known or suspected harborages from inside and/or outside. Areas: cracks and crevices in weep holes, wall voids, around window and door frames, under infrequently moved items including furniture and shelving, under siding and exposed concrete, and other areas where scorpions may be harboring or entering the structure. Spot treat the area around entry points on exterior.

Carpenter Ants and Foraging, Harvester and Southern Fire Ants

Make spot, **Crack & Crevice** or foam applications to any trails, inside or outside around doors and windows, and other places where ants enter premises: atriums, crawl spaces, ceilings, garages, soffits, wall voids, weep holes, and other void areas where ants may be harboring, traveling, breeding, or entering the structure. Where possible, treat ant nests or infested wood directly.

Bees

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

For treatment of nests inside wall voids, inject into the nest sufficient quantity to treat the complete nest. More than one point of application maybe required. Most applications should require no more than 1/2 gallon of diluted material. Pay particular attention to what the water 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 TO HELP PREVENT STINGING.

Yellowjackets

To kill yellowjackets, liberally treat the active nest and the surrounding area, contacting as many insects as possible.

THIS PRODUCT DOES NOT PROVIDE INSTANT KNOCK-DOWN. THE BEST TIME TO TREAT IS LATE IN THE DAY. DEPENDING ON THE SITUATION, PROTECTIVE

EQUIPMENT FOR THE APPLICATOR MAY BE REQUIRED TO HELP PREVENT STINGING.

Localized Treatment of Wood-Infesting Insects - Beetles, Borers and Wood Wasps (such families as *Anobiidae*, *Bostrichidae*, *Buprestidae*, *Cerambycidae*, *Lyctidae*, *Oedemeridae*, and *Sesiidae*)*

Locate suspected infestation and/or insect tunnels and cavities. Drill pilot holes into insect tunnels, galleries, and inaccessible closed voids. Drill holes 8 to 10 inches apart to ensure thorough coverage. Inject 5 to 10 seconds per hole or until coverage is obtained or product runs out an opening. **DO NOT** contact electrical wiring, plumbing, etc. Use the 0.025% or 0.050% rate. For beetles and borers, spot surface treatments may also be made.

* Not registered for use in California.

Drywood Termites

This treatment is intended to kill drywood termites on contact only. The purpose of such applications is to kill workers or winged reproductive forms which may be present in the treated channels or on surfaces at the time of treatment. Treatment of exposed surfaces should be done to cover thoroughly but excess runoff should be avoided. Such applications are not a substitute for mechanical alteration, soil treatment, or foundation treatment.

Outdoor Applications

KILLS: Ants, Asian Lady Beetles, Boxelder Bugs, Brown Marmorated Stink Bugs, Carpenter Ants, Carpenter Bees, Carpet Beetles, Clover Mites, Cluster Flies, Cockroaches, Crickets, Dermestids, Earwigs, Elm Leaf Beetles, Fire Ants, Fleas, Grasshoppers, House Flies, Kudzu Bugs, Millipedes, Mosquitoes, Psocids*, Scorpions, Sowbugs, Spiders (including Black Widow and Brown Recluse), Stable Flies, and Ticks

* Not registered for use in California.

This product may be used on outdoor surfaces and/or as a crack, crevice, and void treatment of buildings, porches, window frames, eaves, patios, garages, garbage dumps, and other areas where pests are or may congregate or enter premises. This product can also be used in outdoor void areas such as meter boxes and manholes. Use the 0.025% or 0.050% rate unless otherwise noted.

Perimeter Treatment

Treat a band of soil 6 to 7 feet wide around and adjacent to the building. Also treat the building foundation where pests are active and may find entrance to a height of 2 ft above impervious and pervious surfaces. Treat other insect entry points: doors; windows; under siding, decks, and eaves of structure. This product may be applied in compressed air, backpack, or power spray equipment. Apply at the rate of 0.5 to 1.0 fluid ounce concentrate per 1,000 square feet. Apply in a sufficient amount of water to adequately cover the area being treated. Apply in such a

manner to limit dripping and runoff on structural surfaces and plants. Alternate directions are to use 4 to 8 fluid ounces per 50 gallons of water.

Suggested Mixing Chart for Larger Tank Sizes

Tank Size (gallons)	Suggest Amount of Concentrate per Tank (fluid ounces)
15	1.5 to 2.5
25	2.0 to 4.0
50	4.0 to 8.0
100	8.0 to 16.0

Flies (House and Stable)

Inspect and treat where activity is detected: outside surfaces of screens, doors, window frames, or wherever flies enter, contacting as many insects as possible. Also treat surfaces on porches, in garages, and other places where insects are known to congregate. Reapply as necessary, but not more than twice per week. Applications must be at least 3 days apart. Treat known resting areas: 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. Apply so as to lightly moisten the target surface, contacting as many insects as possible. For best results, begin treatments at the start of the fly season and repeat during periods of heavy fly activity.

Mosquitoes

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 100 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. Apply only to the point of runoff. Direct application of this product to any body of water is prohibited.

Carpenter Bees

Locate entrance holes. Treat galleries through entrance holes. Seal bee entrances after application.

Scorpions

Using the 0.050% rate, apply spot treatments into areas where scorpions may hide, known or suspected harborages on and around exterior walls, in cracks, crevices, weep holes, or other access points into hollow block walls, and behind masonry veneer. Inspect and spray areas and treat where activity is detected or suspected, especially around and beneath stones and along rocky areas, in landscaped and mulch areas, and beneath the bark of trees. When possible, remove debris along the foundation that may

provide harborage. Apply a perimeter treatment to exterior walls and adjacent soil according to directions in the **Perimeter Treatment** portion of the **Outdoor Applications** section of this label. Treatment around firewood piles is allowed, but **DO NOT** treat firewood directly.

Crawling Insects - including Ants, Cockroaches, Crickets, Earwigs, and Sowbugs

Apply in outdoor areas which are landscaped, planted, mulched, or unmaintained. For ants, treat mounds and runways. Repeat applications as infestation warrants and as reinfestations occur, but not more than twice per week. Applications must be at least 3 days apart. Apply to cracks and crevices where insects may enter premises. Areas: weep holes; under siding; wall voids; soffits; around attic vents; cracks and crevices; and openings around windows, doors, and pipes. Treatment of infested fences and tree holes is permitted.

Fleas

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

Turfgrass and Ornamentals

This product can be used on ornamentals and turfgrass in the following use sites:

- Residential and non-residential landscapes
- Residential and non-residential lawns
- Interiorscapes

This product can be used on the following ornamental plants:

- Bedding plants
- Flowering hanging baskets
- Foliage
- Potted flowering plants
- Trees and shrubs

DO NOT use this product on vegetable gardens.

DO NOT apply when the wind speed is greater than 15 mph.

KILLS: Ants, Aphids, Armyworms, Bagworms, Beetles, Billbugs (adults), Boxelder Bugs, Caterpillars, Chiggers, Chinch Bugs, Clover Mites, Crickets, Cutworms, Earwigs, Fire Ants, Firebrats, Fruitworms, Grasshoppers, House Flies, Japanese Beetle (adults), Lace Bugs, Leafrollers, Loopers, Mealy Bugs, Millipedes, Mosquitoes, Pillbugs, Plant Bugs, Psylla, Scale Insects, Sod Webworms, Sowbugs, Spiders (including Black Widow and Brown Recluse), Tent Caterpillars, Thrips, Ticks, Whiteflies, and Wood Wasps

For use on residential and commercial turfgrass, residential and commercial landscape ornamentals and interiorscapes. Apply according to label instructions found in **Table 1. Application Rates for Turfgrass and Ornamentals**. Consult **Plant Tolerance** portion of label

for more information on plant safety when using this product.

Table 1. Application Rates for Turfgrass and Ornamentals

Plant Type	Rate	Comments
Bedding plants Flowering hanging baskets Foliage Potted flowering plants Trees and shrubs	4 to 6 fluid ounces/ 100 gallons water	Treat upper and lower foliage surfaces of plants uniformly
Turfgrass	0.5 to 1 fluid ounce/ 1,000 square feet	Use a coarse, low-pressure spray

Plant Tolerance

This product been applied to ornamental plants without observed plant injury. Not all species, varieties, and cultivars have been tested for tolerance to this product, possible tank mix combinations with this product, pesticide treatments preceding or following those with this product, and combinations of this product with surfactants or adjuvants. Local conditions can also influence plant tolerance and may not match those under which BASF has conducted testing. Because many cultivars within a plant species vary in tolerance to chemical applications and growing conditions, the grower must recognize these differences and test the product accordingly. At a minimum, always test a small group of representative plants for tolerance to this product under local growing conditions and prior to large-scale use.

Applicator assumes responsibility for testing species suitability under local growing conditions by treating a small number to plants at the specified rate. At a minimum, this should include evaluating treated plants for several weeks following treatment for possible injury or other effects. To the extent consistent with applicable law, by applying this product, the user assumes responsibility for any crop damage or other liability associated with factors beyond the manufacturer's control, such as weather, presence of other materials, and manner or use of application.

Plant Safety Restrictions and Limitations

DO NOT tank mix with other pesticides or additives that have not been tested for tolerance under local conditions. If tank-mixed with another product, always test a small group of representative plants for tolerance prior to large-scale use.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing.

Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

DO NOT apply to plants exhibiting symptoms of stress or injury, such as stunting, wilting, leaf burn or drop, or abnormal growth.

Livestock Housing

May be used in and on outside surfaces of outer buildings.

DO NOT apply to lactating or food animals. **DO NOT** contaminate milk, food, or drinking water. Remove all animals prior to making applications to housing. **DO NOT** apply or allow insecticide to drift onto animals. **DO NOT** allow animals to enter treated areas until surfaces are dry.

Flies (House and Stable)

Treat known fly resting areas: ceilings, screens, upper corners of the area, around windows and doors, and light fixtures on outdoor surfaces and in animal areas such as dog kennels, hog barns, horse barns, empty chicken houses, rabbit hutches, dairy areas, milkrooms, calf hutches, calving pens and parlors, contacting as many insects as possible. Apply as a coarse, wet spray. Using a mixture of 1 fluid ounce of concentrate per gallon of water, apply at a rate of 1 gallon diluted product per 1,000 square feet of surface. For best management practices, initiate treatments at the beginning of the fly season and repeat during periods of heavy fly activity, but not more than twice per week. Applications must be at least 3 days apart.

Darkling Beetles

Treat the litter paying particular attention to the areas under the feeder line, water line, and the perimeter. Use 2 to 5 fluid ounces per 1,000 square feet in an adequate amount of water to provide good coverage.

Perimeter Treatment

Treat a band of soil 6 to 7 feet wide around and adjacent to the building. Also treat the building foundation and sides where pests are active and may find entrance. Treat other insect entry points: doors, windows, under siding, and eaves of structure. This product may be applied in compressed air, backpack, or power spray equipment. Apply at the rate of 1.0 fluid ounce concentrate per 1,000 square feet. Apply in sufficient water to adequately cover the area being treated. Apply in such a manner to limit dripping and runoff on structural surfaces and plants.

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 CORPORATION ("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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We create chemistry