



The Chemical Company

Safety Data Sheet CYHALOCAP CS

Revision date : 2012/03/20

Version: 1.1

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(30472200/SDS_CPA_US/EN)

1. Product and Company Identification

Company
BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information
CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Registrant:
Whitmire Micro-Gen Research Laboratories, Inc.
3568 Tree Court Industrial Blvd.
St. Louis, MO 63122

Substance number: 000000395725
Synonyms: lambda Cyhalothrin

2. Hazards Identification

Emergency overview

CAUTION:
KEEP OUT OF REACH OF CHILDREN.
KEEP OUT OF REACH OF DOMESTIC ANIMALS.
Moderately irritating to the eyes.
Avoid contact with the skin, eyes and clothing.
Wash thoroughly after handling.

See Product Label for additional precautionary statements.

State of matter: liquid
Colour: yellowish to white
Odour: characteristic

Potential health effects

Primary routes of exposure:

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

Acute toxicity:

Relatively nontoxic after single ingestion. Relatively nontoxic after short-term skin contact.

Irritation / corrosion:

May cause slight but temporary irritation to the eyes. May cause moderate irritation to the skin.

Sensitization:

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Skin sensitizing effects were not observed in animal studies.

Potential environmental effects

Aquatic toxicity:

Very toxic (acute effect) to aquatic organisms.

3. Composition / Information on Ingredients

CAS Number	Content (W/W)	Chemical name
91465-08-6	9.7 %	Lambda-Cyhalothrin
	90.3 %	Proprietary ingredients

4. First-Aid Measures

General advice:

First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or physician for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

If inhaled:

Remove the affected individual into fresh air and keep the person calm.

If on skin:

Rinse skin immediately with plenty of water for 15 - 20 minutes.

If in eyes:

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing.

If swallowed:

Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting. Have person sip a glass of water if able to swallow.

Note to physician

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

5. Fire-Fighting Measures

Flash point: > 85 °C (closed cup)
Lower explosion limit: not determined
Upper explosion limit: not determined

Suitable extinguishing media:

foam, dry powder, carbon dioxide, water spray

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, Hydrogen chloride, hydrogen fluoride, halogenated hydrocarbons, halogenated compounds, hydrocarbons
If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released in case of fire.

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

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Further information:

Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

6. Accidental release measures

Personal precautions:

Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental precautions:

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water. A spill of or in excess of the reportable quantity requires notification to state, local and national emergency authorities. This product is not regulated by CERCLA ('Superfund').

Cleanup:

Dike spillage. Pick up with suitable absorbent material. 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

Handling

General advice:

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. 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. 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. Provide means for controlling leaks and spills. 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:

The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Avoid extreme heat. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

Storage

General advice:

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination. The authority permits and storage regulations must be observed.

Storage incompatibility:

General advice: Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

Storage stability:

May be kept indefinitely if stored properly. If an expiry date is mentioned on the packaging/label this takes priority over the statements on storage duration in this safety data sheet.

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8. Exposure Controls and Personal Protection

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

Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

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) organic vapour/particulate respirator. 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:

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS
Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

9. Physical and Chemical Properties

Form:	liquid, microencapsulated	
Odour:	characteristic	
Colour:	yellowish to white	
pH value:	7.4	(1 %(m), 23.1 °C)
Melting point:	approx. 0 °C	
Density:	1.0103 g/cm3	(20 °C)
Vapour density:		not determined
Viscosity, dynamic:	482 mPa.s	(23 °C)
Solubility in water:		dispersible

10. Stability and Reactivity

Substances to avoid:

strong bases, strong acids, oxidizing agents

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Hazardous reactions:

The product is chemically stable.

Decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated., Prolonged thermal loading can result in products of degradation being given off.

Thermal decomposition:

Possible thermal decomposition products:

carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide, Hydrogen chloride, hydrogen fluoride, halogenated hydrocarbons

Stable at ambient temperature.

Corrosion to metals:

Corrosive effects to metal are not anticipated.

11. Toxicological information

Acute toxicity

Oral:

Type of value: LD50

Species: rat (female)

Value: > 5,000 mg/kg

Dermal:

Type of value: LD50

Species: rat (male/female)

Value: > 5,000 mg/kg

Irritation / corrosion

Skin:

Species: rabbit

Result: moderately irritating

Eye:

Species: rabbit

Result: Slightly irritating.

May cause slight irritation to the eyes.

Sensitization:

Buehler test

Species: guinea pig

Result: Skin sensitizing effects were not observed in animal studies.

Genetic toxicity

Information on: lambda-cyhalothrin

No mutagenic effects reported.

Carcinogenicity

Information on: lambda-cyhalothrin

The US EPA has classified this substance with the rating of 'D', not classifiable as to human carcinogenicity.

Reproductive toxicity

Information on: lambda-cyhalothrin

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No reproductive toxic effects reported.

Development:

Information on: lambda-cyhalothrin
No indications of a developmental toxic / teratogenic effect were seen in animal studies.

12. Ecological Information

Fish

Information on: lambda-cyhalothrin
Acute:
OECD Guideline 203 Flow through.
Oncorhynchus mykiss/LC50 (96 h): 0.00024 mg/l

Aquatic invertebrates

Information on: lambda-cyhalothrin
Acute:
OECD Guideline 202, part 1 static
Daphnia magna/EC50 (48 h): 0.00036 mg/l

Aquatic plants

Information on: lambda-cyhalothrin
Toxicity to aquatic plants:
green algae/EC50 (96 h): > 0.3 mg/l

13. Disposal considerations

Waste disposal of substance:

Pesticide wastes are regulated. If pesticide wastes cannot be disposed of according to label instructions, 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

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

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Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

Chemical	TSCA, US	blocked / not listed
Crop Protection	TSCA, US	released / exempt

EPCRA 311/312 (Hazard categories): Acute;

16. Other Information

Refer to product label for EPA registration number.

Recommended use: insecticide

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.

MSDS Prepared by:

BASF NA Product Regulations
msds@basf.com
MSDS Prepared on: 2012/03/20

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END OF DATA SHEET

Prescription Treatment® brand

CYHALOCAP™ CS

Controlled Release Lambda-Cyhalothrin

CONTROLS: Ants, Bed Bugs, Bees, Boxelder Bugs, Caddies, Carpenter Ants, Carpenter Bees, Carpet Beetles, Centipedes, Chocolate Moths, Cigarette Beetles, Clover Mites, Cluster Flies, Cockroaches, Crickets, Darkling Beetles, Dermestids, Drugstore Beetles, Earwigs, Elm Leaf Beetles, Fire Ants, Firebrats, Fleas, Flies, Flour Beetles, Grain Weevils, Grasshoppers, Hide Beetles, Hornets, Indianmeal Moths, Larder Beetles, Lesser Grain Borers, Lesser Mealworms, Loopers, Mediterranean Flour Moths, Merchant Grain Beetles, Mealworms, Millipedes, Mosquitoes, Psocids, Rice Weevils, Saw-toothed Grain Beetles, Scorpions, Silverfish, Sawbugs, Spiders, Springtails, Termites, Ticks, Yellowjackets, Warehouse Moths, Wasps, Wood Wasps; Wood-infesting Borers and Beetles

FOR USE IN AND AROUND: Apartments, Barns, Caf Hatches, Calving Pens and Parlors, Campgrounds, Commercial and Industrial Buildings, Correctional Facilities, Dairy Areas, Decks, Empty Chicken Houses, Fencing, Food Processing Plants, Food Storage Areas, Grain Mills, Granaries, Greenhouses (non-commercial), Hog Barns, Homes, Horse Barns, Hospitals, Hotels, Laboratories, Landscape Vegetation, Locker Rooms, Machine Rooms, Mausoleums, Meat Packing Plants, Milkrooms, Mobile Homes, Motels, Mulch, Nursing Homes, Offices, Patios, Pet Kennels, Porches, Rabbit Hutches, Resorts, Restaurants and other Food Handling Establishments, Schools, Storage Rooms, Sewers (dry), Stores, Supermarkets, Transportation Equipment (Buses, Boats, Planes†, Ships, Trains, Trucks), Utility Passages, Utilities, Vestibules, Warehouses and Wineries

† Do not use in aircraft cabins.

ACTIVE INGREDIENT:	Lambda-cyhalothrin¹ [1α (S*) ,3 α(Z)-(+/-)-cyano-(3-phenoxyphenyl) methyl-3-(2-chloro-3,3, trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate	9.7%
OTHER INGREDIENTS:	90.3%
'Synthetic pyrethroid, capsule suspension (microencapsulated)		TOTAL: 100.0%

EPA Reg. No. 499-535

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 min. Call a poison control center or doctor for treatment advice.

IF IN EYES: Hold eyes open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 min, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also call 1-800-832-HELP for emergency medical treatment information.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. When making applications, take care to avoid household pets, particularly fish and reptiles.

ENVIRONMENTAL HAZARDS
This product is extremely toxic to fish. 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 hr 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 run-off to water bodies or drainage systems.

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

PHYSICAL OR CHEMICAL HAZARDS
Do not apply this product in or around electrical equipment due to the possibility of shock hazard.

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

GENERAL INFORMATION

Apply this product only as specified on this label. This product is a flowable microencapsulated concentrate containing 0.5 lb of lambda-cyhalothrin per gallon. This product may be used 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.

In situations where conventional application methods have not or are not likely to provide adequate coverage, Micro-Injector® 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 section entitled "Foam Application Use Directions".

USE RESTRICTIONS

- 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 run-off.

• 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 run off 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 ft above grade;
- 4. Applications to 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" 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, gutter 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.

• 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 in aircraft cabins.

• 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 allow applications to contact water inhabited by fish, such as in aquariums and ornamental fish ponds that are located in and/or around structures being treated.

• 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.

• Avoid contamination of food, feedstuffs or water supply. Do not contaminate food preparation surfaces, kitchen utensils, dishes or feed storage containers. Any food/feed contact surfaces and cooking utensils in the treatment area should be covered during treatment or thoroughly cleaned before using.

• Do not apply this product to edible growing crops or stored raw agricultural com-modities.

MIXING INSTRUCTIONS

Thoroughly clean spray equipment before using this product. Shake concentrate well before diluting. When diluting, first add approximately one-half of the water to the spray tank and then add the proper amount of this product. 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 re-agitate 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			
Application Rate	Amount of Water	% of λ-cyhalothrin in Finished Spray	Area of Coverage (ft²)
0.2 fl oz	1 gal	0.015%	800 - 1,200 ft²
0.4 fl oz	1 gal	0.030%	800 - 1,200 ft²
0.8 fl oz	1 gal	0.060%	800 - 1,200 ft²

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

MIXING CHART FOR MULTIPLE GALLONS

% of λ-cyhalothrin in Finished Spray			
Gallons	0.015%	0.030%	0.060%
1	0.2 fl oz	0.4 fl oz	0.8 fl oz
2	0.4 fl oz	0.8 fl oz	1.6 fl oz
5	1.0 fl oz	2.0 fl oz	4.0 fl oz

VOID / CRACK & CREVICE® APPLICATION

To treat insects harbored in voids and in cracks and crevices, apply with equipment designed for Crack & Crevice or 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. Application should be made in such a manner to limit dripping and run-off on structural surfaces and plants.

FOAM APPLICATION USE DIRECTIONS: This product can be converted to 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 of this product with manufacturer's recommended volume of foaming agent. Use the recommended rate suspension converted to foam to achieve the desired foam expansion ratios. Verify before treatment that the foaming agent is compatible with this product.

FOOD AREAS OF FOOD HANDLING ESTABLISHMENTS

Food handling establishments are defined as places other than private residences in which exposed food is held, processed, prepared or served. Food areas are areas for receiving, storing, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage, and enclosed processing systems (mills, dairies, edible oils, syrups) of food. Serving areas where food is exposed and the facility is in operation are also considered food areas.

Product applications in food areas of food handling establishments are limited to Crack & Crevice or spot treatment. Apply in small amounts directly into cracks and crevices, using equipment capable of delivering a fine stream of insecticide, in points between different elements of construction, between equipment and floor, openings leading to voids and hollow spaces in walls, equipment and bases. Clean food contact surfaces and equipment with an effective cleaning compound and rinse with potable water before using.

Limit individual spot treatments to an area no larger than 20% of the treated surface. Individual spot treatments should not exceed 2 ft². Take extreme care that the product is not introduced into the air. Avoid contamination of food and food processing surfaces.

Application within Food Serving Areas (facilities where foods are served, such as dining rooms): Do not apply when facility is in operation or foods are exposed. Apply as a Crack & Crevice or

CYHALOCAP CS™ Controlled Release Lambda-Cyhalothrin

spot treatment to selective surfaces such as baseboards, under elements of construction and into cracks and crevices. Avoid treating surfaces likely to be contacted by food. Cover or remove food in the area being treated. Do not apply directly to food or allow applications to contaminate food.

APPLICATION OF THIS PRODUCT IN THE FOOD AREAS AND/OR FOOD SERVICE AREAS OF FOOD HANDLING ESTABLISHMENTS OTHER THAN AS A CRACK & CREVICE OR SPOT TREATMENT IS NOT ALLOWED.

INDOOR TREATMENTS

Apply as a Crack & Crevice residual product where insects may be hiding, living and breeding and/or for selected spot application. Retreat at 21 day intervals or as necessary to maintain control.

When using in food/feed areas of food/feed handling establishments, restaurants or other areas where food/feed is commercially prepared or processed, refer to the section entitled "Food/Feed Areas of Food Handling Establishments" for use directions. Non-food/feed areas are areas such as garbage rooms, restrooms, floor drains (in sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling).

CENTIPEDES, COCKROACHES, CRICKETS, DERMETIDS, 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.

FLEES: Make spot applications of this product 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 (DERMETIDS): Treat along edges of carpet, under carpet edge, furniture, throw rugs and as a Crack & Crevice application in closets and other shelving where infested items are stored. Do not treat clothing with this product.

BED BUGS: Allow treated articles to dry thoroughly before use. Take bed apart. Treat joints and channels if hollow, such as square or round tubing, and see that the interior framework is treated. Treat mattresses, especially tufts, folds and edges. Cover mattresses with outer sheets before use. Also treat other areas where bed bugs may be harboring such as box springs, furniture and wall voids; and behind headboards, wall hangings, baseboards and crown moldings.

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 clean fresh bedding after treatment. Do not treat pets with this product.

ANTS: Inject cracks, crevices and voids where ants may be traveling and/or harboring, including but not limited to, 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 with this product. Apply as a spot and/or Crack & Crevice treatment to cracks, crevices and surfaces where pests have been seen or may have harborage. Apply as a spot and/or Crack & Crevice treatment in pantries and other areas where food may be stored in a home or other structures. 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. Any foodstuffs infested with pests should be removed and destroyed.

INDOOR AND OUTDOOR TREATMENTS

HIBERNATING STAGES OF BOXELDER BUGS, ELM LEAF BEETLES, CENTIPEDES, CLUSTER FLIES, CLOVER MITES, COCKROACHES, CRICKETS, DERMETIDS, EARWIGS, FIREBRATS, MILLIPEDES, PSOCIDS, SILVERFISH, SOWBUGS AND SPIDERS: Inject cracks, crevices and/or voids where these insects may be harboring or hibernating. Infested areas include, but are not limited to, cracks and crevices in weep holes, wall voids, around window and door frames, and under siding. Treat wall area around entry points on exterior where insects congregate.

CARPENTER ANTS: Make spot and/or Crack & Crevice applications to any traits, inside or outside around doors and windows, and other places where ants enter premises. Areas which may be treated include, but are not limited to, atriums, crawl spaces, ceilings, garages, soffits, wall voids, weep holes, and other void areas. Where possible, treat ant nest or infested wood directly.

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 outdoor 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 treat- ment of nests inside wall voids, inject a sufficient quantity of product into the nest to treat the entire nest. More than one point of application may be required. Most applications would not require 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 possibility of shock hazard.

THIS PRODUCT DOES NOT PROVIDE INSTANT KNOCKDOWN. The best time to treat is late in the day. The colony should be dead in 2 - 3 days. Depending on the situation, protective equipment for the applicator may be required (is advisable).

WOOD DESTROYING INSECTS

LOCALIZED TREATMENT OF WOOD-INFESTING INSECTS - Beetles and Borers (such as the following families): Anobiidae, Bostrichidae, Buprestidae, Cerambycidae, Lyctidae, Oedemeridae, Sesididae and Termites: Locate suspected infestation and/or insect tunnels and cavities. Drill pilot holes into insect tunnels, gallery and inaccessible closed voids. Drill holes 8 - 10" apart to ensure thorough coverage. Inject 5 - 10 seconds per hole. Do not contact electrical wiring, plumbing, etc.

TERMITES: To inhibit termite infestations, treat exposed tubing, cracks or cold joints in concrete or other structural interstices. Treat exposed surfaces to cover thoroughly but avoid excess run-off. This type of application is intended to be a supplemental treatment for control of drywood and above ground subterranean termites and

other wood-infesting insects. It is not intended to be a substitute for soil treatment or for extensive infestation of drywood or other wood-infesting insects. To treat for severe infestations or for treatments under slabs, in basements and buildings with insufficient crawlspace, use a registered termiticide.

OUTDOOR TREATMENTS

CONTROLS: Ants, Boxelder Bugs, Carpenter Ants, Carpenter Bees, Cricket Beetles, Centipedes, Clover Mites, Cluster Flies, Cockroaches, Crickets, Dermetids, Earwigs, Elm Leaf Beetles, Fleas, Flies, Grasshoppers, Millipedes, Mosquitoes, Psocids, Scorpions, Silverfish, Sowbugs, Spiders and Ticks

Follow the instructions for outdoor applications under Use Restrictions. This product can be used as a residual treatment 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 congregate or enter premises. Repeat treatment as necessary to maintain effectiveness, but not more than twice per week. Treatment must be at least 3 days apart.

This product can be used as a residual treatment to control pests in outdoor void areas such as meter boxes and manholes. Repeat treatment as necessary, but not more than twice per week. Treatments must be at least 3 days apart.

PERIMETER TREATMENT: To help prevent infestations of buildings, treat a band of soil 6 - 10 ft 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 such as doors, windows, under siding and eaves of structure. This product may be applied in compressed air, backpack or power spray equipment. Apply at 0.015% - 0.060% finished spray, using an amount of water sufficient to adequately cover the area being treated, yet limit dripping and run-off on structural surfaces and plants.

LIVESTOCK / POULTRY HOUSING STRUCTURES AND PET KENNELS: Apply as a general surface (including directed sprays) and/or Crack & Crevice treatment. Control is enhanced when interior and exterior perimeter applications are made in and around the livestock, poultry and pet housing structures. Normal cleaning practices of the structure also must be followed along with applications of this product to effectively control the listed crawling and flying insect pests.

For unoccupied areas of livestock barns or housing structures, apply to floors, vertical and overhead surfaces where crawling or flying insect pests are or may be present. Cover feeders, waterers and feed carts before application to prevent contamination. Do not apply to milk rooms or feed rooms. Pay attention to animal areas including stanchions, pipes, windows, doors and areas where insect pests hide or congregate. Exterior applications to south facing walls and foundation perimeters can help prevent interior infestations of flying and crawling insect pests.

For poultry houses, apply to floor area (birds grown on litter) or to walls, posts and cage framing (birds grown in cages). Also apply to cracks and crevices around insulation. Reapply after each growth or sanitization procedure. Indoor control can be enhanced by making perimeter treatments around the outside of building foundations to prevent immigrating adult beetles. Apply in a uniform band 1 - 3 ft up and 2 - 6 ft out from foundation. Maintaining a year-round treatment program will prevent background populations from reaching problem levels.

Do not make interior applications of this product in areas of facility where animals other than cattle or calves are present. Allow treated surfaces to completely dry 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.

STORAGE AND DISPOSAL

Nonrefillable container. 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 in accordance with the label directions or at an approved waste disposal facility.

CONTAINER DISPOSAL: Empty container by using the product according to the label directions. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank 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 and store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure 2 more times. Place triple rinsed, empty container in trash or offer for recycling if available. If container is partly filled or to dispose of stored rinsate, call your local solid waste agency for disposal instructions. NEVER PLACE UNUSED PRODUCT DOWN ANY INDOOR OR OUTDOOR DRAIN!

Offer triple rinsed, empty containers for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

CONDITIONS OF SALE AND WARRANTY

Directions for Use: It is impossible to eliminate all risks inherently associated with use of this product, and therefore all such risk shall be assumed by the Buyer. Whitmire 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) WHITMIRE MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR PARTICULAR PURPOSE, OR MERCHANTABILITY. (B) BUYER'S EXCLUSIVE REMEDY AND WHITMIRE'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) WHITMIRE AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. Whitmire and the Seller offer this product, and the Buyer accepts 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 Whitmire.

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Whitmire Micro-Gen Research Laboratories, Inc.®
By BASF Corporation
3568 Tree Court Industrial Blvd.
St. Louis, MO 63122-6682
Questions? Call 1-800-777-8570
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