

| | | |
|--------------|----------|--------------------|
| GROUP | 3 | INSECTICIDE |
|--------------|----------|--------------------|

DEMAND[®] CS Insecticide

COMMERCIAL

MICROCAPSULE SUSPENSION

GUARANTEE:

Lambda-cyhalothrin 100 g/L

Contains 1,2-benzisothiazolin-3-one at 0.1% as a preservative.

**READ THE LABEL AND ATTACHED PAMPHLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN
SHAKE WELL BEFORE USE**

**POTENTIAL SKIN SENSITIZER
CAUTION: EYE IRRITANT**

REGISTRATION NUMBER: **27428**
PEST CONTROL PRODUCTS ACT

Syngenta Canada Inc.
140 Research Lane, Research Park
Guelph, Ontario N1G 4Z3
Telephone: 1-877-964-3682

PAMPHLET

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

FIRST AID

IN CASE OF POISONING, contact a physician or a poison control centre **IMMEDIATELY**. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

If swallowed, call a poison control centre or doctor **IMMEDIATELY** for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

If on skin/clothing, take off contaminated clothing. Rinse skin **IMMEDIATELY** with plenty of water for 15 – 20 minutes. Call a poison control centre or doctor for treatment advice.

If in eyes, hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

If inhaled, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible.

TOXICOLOGICAL INFORMATION

Contains petroleum distillates. Vomiting may cause aspiration pneumonia. Treat symptomatically.

PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN AND ANIMALS.** Keep unused product in original container tightly closed, locked up and away from food. May irritate eyes.
2. **DEMAND[®] CS Insecticide** is a potential skin sensitizer. In case of exposure to skin or face or other sensitive areas, some individuals may feel a tingling or numbness. This is a transitory effect and does not cause harm to skin. Avoid splashing in eyes or on skin, particularly the face. If hands are contaminated, wash with soap and water before touching other areas of skin. When applying this product workers should wear long pants, long-sleeved shirts, and chemical resistant boots and gloves. In addition, during mixing, loading, clean-up and repair activities, workers must also wear chemical resistant gloves, safety goggles or a face shield. Avoid touching face with contaminated gloves or clothing. Wash gloves before removal. Wash protective equipment with soap and water after each use and separate from household laundry.
3. **VACATE PREMISES DURING APPLICATION AND KEEP ALL PERSONS OUT OF TREATED AREAS UNTIL SURFACES ARE DRY.**

4. When making an application to vinyl or wooden surfaces, treat a small area and allow to dry. Some types of vinyl or wooden surfaces, particularly if aged, may show some staining after application of DEMAND CS Insecticide.

ENVIRONMENTAL HAZARDS

This product is very toxic to fish and aquatic organisms. It also contains a petroleum distillate, which is moderately to highly toxic to aquatic organisms. Do not contaminate ponds, lakes, streams or rivers or any bodies of water by direct application, during sprayer filling or rinsing operations or while spraying. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighbouring areas. When making applications, care should be used to avoid exposure of household pets, particularly fish and reptile pets. This product is highly toxic to bees. Do not apply when weather conditions favour drift from the target area.

STORAGE

Store in a cool, well ventilated area away from foodstuffs and out of the reach of children and animals. Store above 0°C. Shake well before use.

SPILL CLEANUP

Wear appropriate protective equipment (gloves, glasses, apron) when attempting to clean up the spill. If the container is leaking, secure leak and place the container into a drum or heavy gauge plastic bag. Contact Syngenta Canada Inc. at **1-800-327-8633 (FASTMED)** for further information.

For spills and leaks - contain the liquid with dikes of inert material (soil, clay, kitty litter, etc.). Absorb the spill onto inert material and shovel into a sealable waste container.

On hard surfaces - sprinkle spill area with detergent and scrub in a small quantity of water with a coarse broom. Let stand 10 minutes then absorb onto an inert material and shovel into the waste container.

On soil - remove the top 15 cm of soil in the spill area and replace with fresh soil. Dispose of all waste including scrub brush in accordance with provincial requirements.

DISPOSAL OF UNUSED, UNWANTED PRODUCT

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

CONTAINER DISPOSAL:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,
CALL 1-800-327-8633 (FASTMED)***

PRODUCT INFORMATION

DEMAND CS Insecticide is a photostable, synthetic pyrethroid insecticide. It is a fast acting stomach and contact insecticide effective against a broad spectrum of pests. It has no fumigant or systemic activity. Best results will be obtained with DEMAND CS Insecticide when applied against the early development stages of the pest as determined by regular monitoring.

STRUCTURAL AND PERIMETER PEST CONTROL

FOR USE AS A CRACK AND CREVICE TREATMENT IN RESIDENTIAL, INDUSTRIAL AND COMMERCIAL BUILDINGS/STRUCTURES, AND ON MODES OF TRANSPORT. PERMITTED AREAS OF USE INCLUDE, BUT ARE NOT LIMITED TO, RESIDENTIAL AND INDUSTRIAL/COMMERCIAL BUILDINGS, HOMES, APARTMENTS, HOSPITALS, DAYCARES, SCHOOLS, NURSING HOMES, HOTELS, MOTELS, LABORATORIES, BUSES, GREENHOUSES (NON-COMMERCIAL), STORES, WAREHOUSES, VESSELS, RAILCARS, TRUCKS, TRAILERS, AIRCRAFT (CARGO AND OTHER NON-CABIN AREAS ONLY), RESTAURANTS, LIVESTOCK/POULTRY HOUSING, PET KENNELS, FOOD GRANARIES, FOOD GRAIN MILLS, AND FOOD MANUFACTURING, PROCESSING AND SERVICING ESTABLISHMENTS. INDOOR APPLICATION OF THE PRODUCT SHOULD BE PERFORMED WHEN COMMERCIAL FACILITIES ARE NOT IN OPERATION.

CRACK AND CREVICES USE RESTRICTIONS:

USE IN FOOD SERVICES AREAS OF SCHOOLS, DAYCARES, HOSPITALS, ETC. IS PERMITTED ONLY DURING CLOSED DOWN PERIODS.

For indoor applications, DEMAND CS Insecticide can be reapplied at 21-day intervals if necessary, maximum 4 applications per year.

FOR USE AS AN EXTERIOR PERIMETER (BARRIER) TREATMENT AROUND BUILDINGS AND STRUCTURES SUCH AS HOUSES, APARTMENT BUILDINGS, LABORATORIES, GREENHOUSES (NON-COMMERCIAL), STORES, WAREHOUSES, SCHOOLS, NURSING HOMES, HOSPITALS, RESTAURANTS, HOTELS, LIVESTOCK/POULTRY HOUSING, PET KENNELS, FOOD GRANARIES, FOOD GRAIN MILLS, AND FOOD MANUFACTURING, PROCESSING AND SERVICING ESTABLISHMENTS.

DIRECTIONS FOR USE

STRUCTURAL AND PERIMETER PEST CONTROL

| PESTS | Concentration of Active Ingredient | DILUTION RATE (mL of DEMAND CS/litre of water) | Comments |
|--|---|---|--|
| <p>Ants</p> <p>Centipedes</p> <p>German Cockroaches</p> <p>Crickets</p> <p>Firebrats</p> <p>Millipedes</p> <p>Sowbugs</p> <p>Cluster Flies</p> | <p>0.03%</p> | <p>0.03% = 3.0 mL per litre water</p> <p>To obtain a concentration of active ingredient of 0.03%, mix 3.0 mL of DEMAND CS Insecticide per litre of water.</p> | <p>Indoor crack and crevice: retreat if necessary after minimum interval of 21 days.</p> <p>Perimeter, barrier treatment: control of ants, crickets, millipedes and sowbugs</p> <p>Apply evenly to sufficiently wet surfaces without puddling.</p> <p>To control cluster flies apply in late summer or early fall before cluster flies are observed alighting on surfaces. Apply as a coarse spray, to run-off, on siding, under eaves, and around windows and doors, paying particular attention to south-facing surfaces. In winter and spring when cluster flies become active and are emerging, interior crack-and-crevice treatment can help reduce the infestation, along with general surface application in infested attics or unoccupied lofts.</p> <p>Re-apply when re-infestation occurs, max. 4 applications per year.</p> |
| <p>Bed Bugs</p> | <p>0.03%</p> | <p>0.03% = 3.0 mL per litre water</p> <p>To obtain a concentration of active ingredient of 0.03%, mix 3.0 mL of DEMAND CS Insecticide per litre of water.</p> | <p>Indoor crack and crevice: Apply evenly to sufficiently wet surfaces without puddling. Apply directly to bed bugs when possible.</p> <p>Re-apply when re-infestation occurs, max. 4 applications per year.</p> |

ANIMAL HOUSING (such as poultry and livestock housing)

| PESTS | DOSAGE | COMMENTS |
|---|---|---|
| Cluster flies in industrial and commercial buildings/structures, including animal housing (such as poultry and livestock housing) | 3.0 mL of DEMAND CS Insecticide per litre of water, equivalent to a concentration of active ingredient in water of 0.03%. Apply as a coarse spray, to run-off. | Apply in late summer or early fall before cluster flies are observed alighting on surfaces. Apply as a coarse spray, to run-off, on siding, under eaves, and around windows and doors, paying particular attention to south-facing surfaces. In winter and spring when cluster flies become active and are emerging, interior crack-and-crevice treatment can help reduce the infestation, along with general surface application in infested attics or unoccupied lofts. Re-apply when re-infestation occurs. |
| House flies in animal housing (such as poultry and livestock housing) | 3.0 mL of DEMAND CS Insecticide per litre of water, equivalent to a concentration of active ingredient in water of 0.03%. Apply as a coarse spray, to run-off. | When infestation occurs, apply as a coarse spray, to run-off, to horizontal surfaces and overhead areas and allow to dry before reintroduction of animals. Re-apply when re-infestation occurs. |

ANTS: Apply to cracks and crevices around doors and windows and other places where ants may be found. For best results, locate and treat nests within structures. Where ants are trailing inside, apply as a crack and crevice treatment to active areas such as baseboards, corners, around pipes, in and behind cabinets, behind and under refrigerators, sinks, furnaces and stoves. When combining baits and crack and crevice insecticides, apply insecticides in cracks and crevices along baseboards and infested surfaces. Use baits in other areas that are untreated by residual insecticides.

COCKROACHES, CRICKETS and FIREBRATS: Apply as a coarse, low pressure spray to cracks and crevices where these pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, cabinets, behind and under refrigerators, sinks, furnaces, and stoves, the underside of shelves, drawers and similar areas.

CENTIPEDES, MILLIPEDES AND SOWBUGS: Apply around doors and windows where these pests may be found or where they may enter premises. Treat baseboards, storage areas, and other locations. Apply barrier treatments to prevent infestation as described below. (See **BARRIER TREATMENT**).

BED BUGS: Crevices, baseboards, loose plaster, behind bed frames and headboards, and beneath beds and furniture. Do not apply to furniture surfaces or mattresses where people will be laying or sitting. Infested bedding should not be treated, but should be removed, placed in sealed plastic bags, and taken for laundering and drying at high temperatures.

Application Within Food Handling Establishments: (places other than private residences in which exposed food is held, processed, prepared, or served) including, but not limited to, areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing foods, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups) and serving areas. Use as a crack and crevice treatment in and around both food and non-food areas. Apply in small amounts directly into cracks and crevices, using equipment capable of delivering

a pin-stream spray, in points between different elements of construction, between equipment and floor, openings leading to voids and hollow spaces in walls, equipment and bases. Food contact surfaces and equipment should be cleaned with an effective cleaning compound and rinsed with potable water before using.

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): Apply as a crack and crevice treatment. Avoid treating areas likely to be contacted by food. (Do not apply when facility is in operation or foods are exposed.) Food must be covered or removed in area being treated. Do not apply directly to food or allow applications to contaminate food.

ANY TREATED SURFACE THAT MAY CONTACT FOOD PRODUCTS SHOULD BE WASHED AND RINSED THOROUGHLY WITH POTABLE WATER BEFORE USE. Use of application equipment such as the Micro-Injector or Actisol applicator in food areas should be limited to crack and crevice treatment only.

BARRIER TREATMENT: For control of ants, crickets, millipedes and sowbugs apply a continual band of insecticide solution around a building foundation and around windows, doors, service line entrances, eaves, vents and other areas with potential for entry by crawling pests. To facilitate application, remove debris and leaf litter from next to the foundation, cut back vegetation and branches that touch the foundation, and move or rake back rocks, deep mulch, or other potential pest harborage next to the foundation. Apply the band up to 3.0 m wide around the structure and upwards along the foundation to 0.9 m and around windows, doors, and roof overhangs. Apply as a coarse spray to thoroughly and uniformly wet the foundation and/or band area so that the insecticide will reach the soil or thatch level where pests may be active.

NOTE: Do not use water base sprays of DEMAND CS Insecticide in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard. For best results, thoroughly wash out sprayer and screen with water and detergent before using DEMAND CS Insecticide. DEMAND CS Insecticide has not stained or caused damage to painted or varnished surfaces, plastics, fabrics or other surfaces where water applied alone causes no damage.

- Do not apply this product in any room being used as living, eating, sleeping or recovery area by patients, the elderly, or infirm when they are in the room.
- Do not apply this product to edible growing crops or stored raw agricultural commodities used for food or feed.
- Do not allow applications to contact water inhabited by fish, such as in aquariums and ornamental fish ponds that are located in/around structures being treated.

Mixing Instructions

DEMAND CS Insecticide is intended for dilution with water for application using hand held or power operated application equipment as a coarse spray for crack and crevice treatments. Application equipment that delivers low volume treatments, such as the Micro-Injector or Actisol applicator, may also be used to make crack and crevice treatments. Fill applicator tank with the desired volume of water and add DEMAND CS Insecticide. Close and shake before use in

order to ensure proper mixing. Shake or re-agitate applicator tank before use if application is interrupted. Mix only amount of treatment volume as required.

NOTE TO USER:

The DIRECTIONS FOR USE for this product for the use described below were developed by persons other than Syngenta Canada Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Syngenta Canada Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crops listed below.

ANTS ON TURF – Directions for Use

| | |
|--------------------------------------|--|
| Pest(s) | Ants |
| Site (Crop) | Turf (sod, golf course, home, industrial and commercial lawns) |
| Method of Application | Ground application only. Apply DEMAND CS as a broadcast foliar application to turf. Do not apply when turf is waterlogged or when soils are saturated with water. |
| Rate of Application and Spray Volume | 3.7 mL product/100 m ² (37 g ai/ha) and spray volume of 800-1000 L/ha. Delay irrigation or mowing for 2 days after application. |
| Number of Applications | Maximum of 4 applications per year. Applications should be made in spring and late summer. |
| Application Interval | Reapply after a minimum of 7 days if monitoring indicates further applications are required. |
| Application Timing | Apply prior to the establishment of high insect pest populations and significant turf damage. Applications should be made in spring and late summer. |
| OTHER | DO NOT APPLY BY AIR. Keep children and pets off treated areas until spray has dry following the application. During mixing, loading, cleanup and repair wear long pants, long-sleeved shirts, chemical-resistant boots, chemical-resistant gloves, safety goggles and a face shield. When applying this product workers must wear long pants, long-sleeved shirts and chemical resistant boots. When applying this product using hand-held equipment, workers must also wear chemical resistant gloves. |

Restrictions:

Field sprayer application: DO NOT apply during periods of dead calm. Avoid applications of this product when winds are gusty. DO NOT apply with spray droplets smaller than the ASAE medium classification.

DO NOT apply by air.

Buffer zones:

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

| Method of Application | Crop | Buffer zones (metres) required for the protection of : | | | | | |
|----------------------------|------|--|--------|------------------|--------------------------------------|--------|------------------|
| | | Freshwater habitats of depths: | | | Estuarine/marine habitats of depths: | | |
| | | Less than 1 m | 1 -3 m | Greater than 3 m | Less than 1 m | 1 -3 m | Greater than 3 m |
| Field sprayer | Turf | 65 | 25 | 10 | 120 | 120 | 120 |
| Field sprayer with shrouds | | 20 | 10 | 3 | 120 | 120 | 35 |
| Field sprayer with cones | | 45 | 20 | 5 | 120 | 120 | 85 |

Resistance-Management Recommendations

For resistance management, please note that DEMAND CS Insecticide contains a Group 3 insecticide. Any insect population may contain individuals naturally resistant to DEMAND CS Insecticide and other Group 3 insecticides. The resistant individuals may dominate the insect population if this group of insecticide is used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance:

Where possible, rotate the use of DEMAND CS Insecticide or other Group 3 insecticides with different groups that control the same pests in a field.

Use tank mixtures with insecticides from a different group when such use is permitted.

Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.

Monitor treated pest populations for resistance development.

Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.

For further information and to report suspected resistance, contact Syngenta Canada Inc. company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.