

(Booklet)



Dursban* M.E.

Microencapsulated Insecticide

- This product is not to be used in and around homes or other residential areas such as parks, school grounds, playing fields. It is not for use by homeowners or other uncertified users.
- To be applied only by or under the direct supervision of commercial applicators responsible for insect control programs. Do not formulate this product into other end use products.

COMMERCIAL

READ THE LABEL AND BOOKLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN

GUARANTEE: chlorpyrifos 20.0% w/w

REGISTRATION NO. 25286 PEST CONTROL PRODUCTS ACT

WARNING  **POISON**

NET CONTENTS 0.5 L, 500 L

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**PRECAUTIONS KEEP OUT OF REACH OF CHILDREN
MAY BE HARMFUL IF SWALLOWED
HARMFUL IF ABSORBED THROUGH SKIN
DANGER - EYE IRRITANT
MAY CAUSE SKIN IRRITATION**

Avoid contact with eyes, skin and clothing. Wash thoroughly with soap and water after handling and before eating or smoking. Wear protective clothing, impervious gloves and goggles when handling. Remove contaminated clothing and wash separately from other laundry before reuse. Avoid breathing vapours and spray mist. Keep away from food, feedstuffs and water supplies.

For liquid formulations packaged in containers more than 10 L:

PRECAUTIONS FOR MIXERS/LOADERS

Mixers/loaders must use a closed mechanical transfer loading system.

Mixers/loaders must wear:

- coveralls over a long-sleeved shirt and long pants
- chemical-resistant gloves
- an air purifying respirator with an -R or -P series filter
- socks and shoes

For liquid formulations packaged in containers holding 10 L or less:

PRECAUTIONS FOR MIXERS/LOADERS

Mixers/loaders must wear:

- coveralls over a long-sleeved shirt and long pants
- chemical-resistant gloves
- a chemical-resistant apron
- chemical-resistant footwear plus socks

PRECAUTIONS FOR APPLICATORS

- Do not apply as a paintbrush treatment for indoor uses.
- Do not apply with high-pressure handwand equipment.

Applicators using handheld equipment must wear:

- a long-sleeved shirt and long pants
- chemical-resistant coveralls and head protection (if spray is upwardly directed)
- chemical-resistant footwear and socks
- chemical-resistant gloves
- an air purifying respirator with an -R or -P series filter

FIRST AID

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 or 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 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. Call a poison control centre or doctor for further 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.

TOXICOLOGICAL INFORMATION

Chlorpyrifos is an organophosphate that is a cholinesterase inhibitor. Typical symptoms of overexposure to cholinesterase inhibitors include headache, nausea, dizziness, sweating, salivation, runny nose and eyes. This may progress to muscle twitching, weakness, tremors, incoordination, vomiting, abdominal cramps and diarrhea in more serious poisonings. A life-threatening poisoning is signified by loss of consciousness, incontinence, convulsions and respiratory depression with a secondary cardiovascular component. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate degree of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as pralidoxime chloride, may be therapeutic if used early; however, use only in conjunction with atropine. In cases of severe acute poisoning, use antidotes immediately after establishing an open airway and respiration. With oral exposure, the decision of whether to induce vomiting or not should be made by an attending physician.

NOTE: Product contains a petroleum distillate solvent.

Do not ship or store with food, feeds, drugs or clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to birds and wildlife. Do not apply directly to water. Drift and run-off from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Do not contaminate water by cleaning of equipment or disposal of waste.

STORAGE

Do not contaminate water, food or feed by storage or disposal. Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides or fertilizers. Do not store above 37°C for extended periods of time. Preferred storage is above 0°C. Storage below 0°C may result in solidification. If warmed to above 0°C, 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.

DISPOSAL**Recyclable Containers:**

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.

Returnable Containers:

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

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.

GENERAL INFORMATION

Dursban M.E. Microencapsulated Insecticide is a flowable microencapsulated concentrate designed for use as a residual spray to control various pests in and around non-residential structures. The pests are listed subsequently. Dursban M.E. Microencapsulated Insecticide may be sprayed on any surface which will not be damaged or stained by water. A visible deposit may appear on some dark surfaces. This deposit can be easily removed with a cloth or damp sponge.

Do not apply this product to conduits, motor housings, junction and switch boxes or other electrical equipment because of possible shock hazard.

ATTENTION: Do not use in food preparation or handling areas. Do not allow spray to contact food or food-contacting surfaces, feedstuffs or water supplies. Do not use in fogging equipment. Keep off treated areas until spray has dried. Keep out of fishponds or other bodies of water.

DIRECTIONS FOR USE

Do not tank mix this product with dichlorvos (DDVP) containing products.

Mixing Instructions

Thoroughly clean spray equipment before using Dursban M.E. Microencapsulated Insecticide Shake concentrate well before diluting so that material is thoroughly dispersed. When diluting, add water to the spray tank and the appropriate amount of Dursban M.E. Microencapsulated Insecticide AGITATE THE SPRAYER BEFORE USING and occasionally during use to ensure even coverage. Re-agitate sprayer if dilution is left in sprayer overnight. IF SPRAY SCREENS ARE USED, THEY SHOULD BE 50 MESH OR LARGER. Dilute Dursban M.E. Microencapsulated Insecticide only with water.

Table 1: Amount of Dursban M.E. Microencapsulated Insecticide to Make 4 L of Finished Spray

% Concentration of Spray Mixture	0.2%	0.4%
Dursban M.E. Microencapsulated Insecticide	40 mL	80 mL

GENERAL PEST CONTROL INDOORS

Dursban M.E. Microencapsulated Insecticide may be applied within non-residential buildings or structures and within non-food handling areas of industrial buildings, manufacturing plants and warehouses. Treat areas where insects are found or normally occur. Application of a 0.2% solution is suitable for control of light pest infestations (i.e., maintenance applications). Application of a 0.4% solution provides residual control of heavy infestations (i.e., clean-out applications). A period of 4 to 7 days is normally required to observe maximum effectiveness on insect populations. If re-treatment is necessary because of subsequent reinfestations or rigorous cleaning procedures, do not treat more often than once every 7 days. Apply spray solutions in such a manner as to minimize spray drift to non-target surfaces.

INDOOR PESTS CONTROLLED WITH DURSBAN M.E. MICROENCAPSULATED INSECTICIDE

ants	clover mites	millipedes
carpenter ants	cockroaches	sowbugs
carpet beetles	crickets	spiders
centipedes	earwigs	

SPECIFIC INDOOR USE DIRECTIONS**Ants**

Ants may be controlled by treating ant trails and wherever else these pests may find entrance. For example, around doors and windows.

Carpet Beetles

Carpet beetles may be controlled by thoroughly applying the spray as a crack and crevice treatment along baseboards, edges of carpeting, under carpeting, rugs and furniture, in closets and on shelving.

Cockroaches

Treat using a crack and crevice treatment in areas such as dark corners of rooms and closets, floor drains, cracks and crevices in walls, along and behind baseboards, beneath and behind sinks, stoves, refrigerators, refrigerator units and cabinets and around plumbing and other utility installations. Crack and crevice treatments are applied by delivering a pin stream or small amount of solution directly into cracks or voids.

GENERAL PEST CONTROL OUTDOORS (Industrial Plants, Manufacturing Plants and Warehouses only) - Use Dursban M.E. Microencapsulated Insecticide to control outdoor pests listed below by application as either a perimeter treatment or on localized areas as a residual surface spray.

Perimeter treatments help prevent infestation of buildings and may be applied at rates ranging from 300 to 600 mL/200 L of spray solution. When making perimeter treatments, apply Dursban M.E.

Microencapsulated Insecticide where pests are active or may find entrance. For example, treat a band of soil 2 to 3 m wide, around and adjacent to buildings and treat the building foundation to a height of 0.75 to 1 m. Apply as a coarse spray at the rate of about 40 L spray mixture/100 m² to thoroughly and uniformly wet the band area.

Residual sprays provide extended control and may be applied at a rate of 40 mL of Dursban M.E.

Microencapsulated Insecticide/4 L of water. Apply dilution to localized areas on outside surfaces of buildings and other outdoor areas where pests congregate or have been seen. Apply as a coarse, low pressure (less than 20 psi) spray or use other suitable equipment to minimize spray drift.

OUTDOOR PESTS CONTROLLED BY DURSBAN M.E. MICROENCAPSULATED INSECTICIDE

ants	earwigs	sowbugs
carpenter ants	fleas	spiders
crickets	millipedes	

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.

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