

(Container)

GARDEX CHEMICALS LTD.

GARDEX DURSBAN* 2E INSECTICIDE
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.
- . Contains chlorpyrifos
- . For use by pest control operators only to control numerous pests of turf, industrial locations, and for agricultural use to control cutworms in tobacco.

COMMERCIAL

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

GUARANTEE: CHLORPYRIFOS 240 g/L

REGISTRATION NO. 24623 PEST CONTROL PRODUCTS ACT

DANGER



POISON

MAY BE FATAL IF SWALLOWED
MAY BE FATAL IF ABSORBED THROUGH SKIN
DANGER - EYE IRRITANT
CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY
CAUSES SKIN IRRITATION

NET CONTENTS: 4 LITRES

Gardex Chemicals Ltd.
7 Meridian Road
Etobicoke, On
M9W 4Z6
(TEL): 416-675-1638 OR 1-800-561-7302

* Trademark of Dow AgroSciences LLC

Gardex Dursban 2E Insecticide

PRECAUTIONS

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Do not get in eyes, on skin or clothing. Avoid breathing vapours and spray mist. Wear protective clothing, chemically resistant gloves and chemical worker's goggles when handling. Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse. Discard contaminated leather articles, including shoes. Handle concentrate in a ventilated area. Use in food areas or food handling establishments only as specified in this booklet.

FIRST AID:

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

If swallowed: Do not induce vomiting. Call a physician or a Poison Control Centre and/or transport to medical facility **IMMEDIATELY**.

If in eyes: Irrigate with flowing water **IMMEDIATELY** and continuously for 15 minutes. Consult medical personnel or contact a Poison Control Centre **IMMEDIATELY**.

If inhaled: Remove to fresh air if effects occur. If not breathing, give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen. Call a physician or contact a Poison Control Centre **IMMEDIATELY**.

If on skin: In case of contact, **IMMEDIATELY** flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician if irritation persists. Wash clothing before reuse. Destroy contaminated shoes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

TOXICOLOGICAL INFORMATION:

The decision of whether to induce vomiting or not should be made by an attending physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from aspiration must be weighed against toxicity when considering emptying the stomach. If burn is present, treat as any thermal burn, after decontamination. Chlorpyrifos is a cholinesterase inhibitor. 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. Supportive care treatment based on judgment of the physician, in response to reactions of the patient.

AGRICULTURAL CHEMICAL

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

Gardex Dursban 2E Insecticide

ENVIRONMENTAL HAZARDS:

This product is highly toxic to bees exposed to direct treatment or residues on plants. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. Gardex Dursban 2E Insecticide is highly toxic to fish, birds, and other wildlife. Fish and crustaceans may be killed at application rates recommended on this label. Do not apply where these are important resources. Do not apply where runoff is likely to occur. Do not apply when weather conditions favour drift from areas treated. Avoid spraying tree crown before mid-morning. Do not apply when birds are nesting in trees to be treated. Do not contaminate water by cleaning of equipment or disposal of wastes.

COMBUSTIBLE:

Do not use or store near heat or open flame.

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 and fertilizers. Do not store above 38° C for extended periods of time. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

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.

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.

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(Booklet)

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DIRECTIONS FOR USE:

PESTS INDOORS

General Information:

Use Gardex Dursban 2E Insecticide to control the pests indicated in the areas listed on following page by application as a 0.24% or 0.48% chlorpyrifos spray. Use the 0.24% spray to control light infestations and the 0.48% spray to quickly reduce heavy infestations or as directed. To prepare the spray, dilute Gardex Dursban 2E Insecticide with water or with a suitable base oil as shown in Table 1. Repeat the treatment as needed. Keep off treated areas until spray has dried.

Gardex Dursban 2E Insecticide

Table 1: Spray Dilution Chart

Litres of Spray Mixture Desired	mL of Gardex Dursban 2E Insecticide to Use	mL of Gardex Dursban 2E Insecticide to Use
	0.24% spray	0.48% spray
Water Base Spray		
1	10	20
2	20	40
5	50	100
10	100	200
25	250	500
Oil Base Spray		
1	8	16
2	16	32
5	40	80
10	80	160
25	210	420

Gardex Dursban 2E Insecticide can be used as a crack and crevice spray in ship holds, railroad boxcars, industrial plants, manufacturing plants, warehouses, meat packing plants, and food processing plants, and as a spot treatment in industrial plants, manufacturing plants, warehouses, meat packing plants and food processing plants.

Use as a spot treatment to control cockroaches, ants, crickets, firebrats, silverfish and spiders in and around both food and nonfood areas by application as a coarse, low pressure (150 kPa or less) spray to localized areas where the above pests have been seen or are suspected of hiding or entering. Apply only enough spray to thoroughly cover the surfaces treated using special care to avoid unnecessary runoff. Do not introduce the spray into the air or allow the spray to contact food or food-contacting surfaces. Areas treated may include dark corners of rooms and closets; along and behind baseboards; beneath and behind stoves, refrigeration units and similar equipment, floor drains, and around plumbing and other utility installations.

NOTE: A period of 4 to 7 days is normally required for maximum effect on cockroaches.

For ants, apply to ant trails and wherever these pests may find entrance. Spot treatment may encompass crack and crevice treatment by applying small amounts of material directly into openings leading to voids and hollow spaces in walls, equipment legs and bases or at points between different elements of construction or between equipment and floors. The use of chlorine based cleaning materials will significantly reduce the residual effect of Gardex Dursban 2E Insecticide.

Remove all food and packaging materials. After spraying, wash all surfaces that may contact food and rinse thoroughly with potable water before re-use for food processing.

Gardex Dursban 2E Insecticide

PESTS OUT-OF-DOORS

PEST CONTROL AROUND BUILDINGS:

Gardex Dursban 2E Insecticide can be used as a perimeter soil treatment or for localized areas on outside surfaces of industrial plants, manufacturing plants, warehouses, meat packing plants, and food processing plants. Keep off treated areas until spray has dried.

Table 2: Directions for Use Around Buildings

Pest	Amount of Gardex Dursban 2E per 100 m ²	Specific Directions
ants crickets earwigs millipedes sow bugs (pillbugs)	45 mL*	To help prevent infestation of buildings, treat a band of soil 2-3m wide around and adjacent to building foundation to a height of 50cm to 1m or use as a spot treatment where pests are active and may find entrance. Dilute in enough water to obtain complete and uniform coverage and apply as a coarse spray to thoroughly wet the band area.
Pest	Spray Dilution	Specific Directions
spiders carpenter ants wasps hornets bees box elder bugs cluster flies	0.48 % solution (see "Spray Dilution Chart")	Close all windows. Apply Gardex Dursban 2E Insecticide by hand held, backpack or hydraulic sprayer to nesting sites and other localized areas where pests congregate. In order to minimize drift, apply a coarse spray thoroughly wetting the surface but not allowing runoff to occur. This can best be achieved by utilizing low gun pressures to generate large droplets. Avoid repeat applications at intervals of less than 50 days.

*45 mL/100m² = 225 mL/500 m² = 450 mL/1000 m² or 4.5 L/ha

PEST CONTROL OF TURF GRASS AREAS (GOLF COURSES, INDUSTRIAL SITES, HIGHWAY MEDIANS AND SOD FARMS ONLY)

Use Gardex Dursban 2E Insecticide to control the pests listed in the following table by application at the recommended dosages and in accordance with the directions given below. Dilute Gardex Dursban 2E Insecticide in enough water to obtain complete and uniform coverage of pest infested areas and apply as a coarse, low-pressure spray using suitable application equipment. Thoroughly water turf immediately after treatment to wash the insecticide into the turf, except as noted.

Gardex Dursban 2E Insecticide

Table 3: Dosages and Directions For Use On Turf

Pest	Amount of Gardex Dursban 2E per 100m ²	Remarks
ants cinch bugs cutworms	45 mL*	Spray when pests first appear; repeat when needed.
sod webworms	45 mL*	For sod webworms, delay watering or mowing the treated area for 121 to 24 hours after treatment.
turfgrass (hyperodes) weevil (annual bluegrass weevil)	45 mL*	Spray suspected problem areas in mid-April, and again in mid-May, or as recommended by your local Agricultural Representative.

*45 mL/100 m² = 225 mL/500 m² = 450 mL/1000 m² or 4.5 L/ha

NOTE: To help prevent infestation of buildings by ants, crickets, earwigs, millipedes and sow bugs (pillbugs), either treat a band of soil 2 to 3 metres wide adjacent to the building and the building foundation to a height of 50 cm to 1 m or use as a spot treatment where pests are active and may find entrance. Use the same dosage and dilution recommended for ant control on turf as shown in Table 3. Apply as a coarse spray to thoroughly and uniformly wet the bad area. Keep off treated area until spray has dried.

PESTS ON ORNAMENTALS (Commercial Production Only) - Greenhouses, Nurseries, and Industrial Sites

Use Gardex Dursban 2E Insecticide to treat flowers, shrubs, vines, shade and flowering trees, and evergreens found to be infested with the pests listed in Table 4. Dilute Gardex Dursban 2E with water according to directions given in Table 4 and apply using suitable hand or power spray equipment in a manner to provide complete and uniform coverage. For best results apply a wetting spray to both upper and lower leaf surfaces and infested limb and trunk areas. Attempt to penetrate dense foliage but avoid over-spraying to the point of excessive runoff. Treat when pests appear and repeat at 7 to 10 day intervals, if needed.

NOTE: Do not use on azaleas, camellias, poinsettias, rose bushes, geraniums, oxalis, coleus or variegated ivy because of possible injury to these plants.

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Table 4: Dosages And Dilutions For Use On Ornamental Plants

Pest	Host Plants	Dosages And Dilutions For Use
eastern tent caterpillar forest tent caterpillar	ash, birch	1.0 L/1000 L
mites such as two-spotted spider mite, European red mite, spruce spider mite, red oak mite, clover mite, honey locust mite	arborvitae juniper	750-1000 mL/1000L
aphids	beech, birch, elm, hickory, linden, maple, oak, pine, flowering cherry, flowering plum, spruce, tulip tree, viburnum, willow, spirea, nasturtium	750 mL / 1000 L
grasshoppers	various ornamental plants	1.0 L / 1000L
European pine sawfly, red-headed pine sawfly	conifers, mountain ash	1.0 L / 1000 L
spittlebugs such as meadow spittlebugs	various ornamental plants	175-300 mL / 1000 L
whiteflies	various ornamental plants	1.0 L / 1000 L
leafhopper such as potato and six spotted leafhoppers	various ornamental plants	2.0 L / 1000 L
thrips	various ornamental plants	1.0 L/1000 L
borers such as ash and lilac borer	locust, birch, mountain ash, willow, lilac	1.0 L/1000 L
scale insects such as lecanium, cottony maple, San Jose, oystershell	various ornamental plants	4.0 L/ 1000 L

1.0 L is equivalent to 240 g of chlorpyrifos per 1000 L

2.0 L is equivalent to 480 g of chlorpyrifos per 1000 L

4.0 L is equivalent to 960 g of chlorpyrifos per 1000 L

Keep off treated areas until spray has dried.

CUTWORMS IN TOBACCO

Dark-sided cutworms may feed on the cover crop before spring ploughdown. Apply 2.25 L/ha Gardex Dursban 2E Insecticide to the area planted to tobacco and a strip about 15 m into nearby cover crop and fencerows. Application should be made in mid to late April, 4 to 5 days before ploughdown. When the rye cover crop is about 15 cm tall, the cutworm larvae will be at the right stage for the best control.

In the event of failure to apply the cover crop treatment, or if there is no cover crop, or where cool temperatures have delayed cutworm hatching until after the application of the cover crop treatment resulting in poor cutworm control, Gardex Dursban 2E Insecticide may be applied to the soil surface.

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Apply about 3 to 5 days before planting preferably before mid-May. A rate of 4.5 L/ha of Gardex Dursban 2E Insecticide should be applied except under low soil moisture conditions. If the top 1 cm or more of soil is dry, 9.0 L/ha of Gardex Dursban 2E Insecticide may be necessary to give the desired control.

Dilute Gardex Dursban 2E Insecticide in water and apply as a broadcast spray. Volumes of 200-400 L/ha and nozzle pressures of 200-350 kPa are recommended. Best results will be obtained when the spray is applied during the afternoon or early evening. Do not make more than one soil application of Gardex Dursban 2E Insecticide per year.

Table 4: Use Rates of Gardex Dursban 2E to Control Dark-Sided Cutworms in Tobacco

Area to be treated	Amount of Gardex Dursban 2E per Hectare	Amount of Chlorpyrifos per Hectare
Cover Crop	2.25 L	540 g
Soil Surface	4.5 L	1.1 kg
Soil Surface Dry Conditions (see "Directions for Use")	9.0 L	2.2kg

Cereals grown for cover crop treated with Gardex Dursban 2E Insecticide should not be used for human or animal consumption if treated within 60 days of harvest.

Restricted Entry Interval

The worker restricted entry level (REI) is 24 hours.

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This label transcript service is offered by the Pest Management Regulatory Agency to provide efficient searching for label information. This service and this information do not replace the official hard-copy label. The PMRA does not provide any guarantee or assurance that the information obtained through this service is accurate, current or correct, and is therefore not liable for any loss resulting, directly or indirectly, from reliance upon this service.