

01-FEB-2005

BASE

GROUP	2A	INSECTICIDE
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ENDOSULFAN 400E

INSECTICIDE COMMERCIAL

DANGER POISON

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

REGISTRATION NO. 27021

PEST CONTROL PRODUCTS ACT

GUARANTEE: endosulfan 400 g/L

WARNING, CONTAINS THE ALLERGEN SOY

UNITED AGRI PRODUCTS CANADA INC.

789 Donnybrook Drive

Dorchester, Ontario

N0L 1G5

NET CONTENTS: 10 L

03/04

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FRONT

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PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. DO NOT APPLY BY AIR.

Hazardous if swallowed, inhaled or absorbed through the skin. After handling, wash thoroughly with soap and water before eating or smoking and change to clean clothing. Do not apply or allow to drift to areas occupied by unprotected persons and animals, or to streams, lakes or ponds to protect wildlife. THIS PRODUCT IS VERY TOXIC TO FISH. Avoid contamination of feed or food, including such crops on which residue is unsafe.

Wear coveralls, long sleeved shirt, long pants and chemical resistant gloves during application, mixing, loading, clean-up and repair.

When spraying in greenhouses and during commercial or prolonged exposure in spray mixing and loading operations, wear synthetic rubber gloves and suitable mask or respirator for Endosulfan protection, such as American Optical Respirator 5058 or Willson Agritox Respirator.

RE-ENTRY: Do not re-enter treated areas for 48 hours. If required, individuals may re-enter treated areas within 48 hours for short-term tasks not involving hand labour if at least 12 hours have passed since application and long pants, long sleeved shirt, hat and chemical resistant gloves are worn. No re-entry shall occur in treated greenhouse unless it has been ventilated or an approved respirator is worn.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., contact 1-866-375-4648 or www.cropro.org/.

This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment.

FIRST AID

In case of poisoning, call a physician or poison control centre IMMEDIATELY.

IF SWALLOWED, DO NOT induce vomiting, because product contains a petroleum distillate. Never give anything by mouth to an unconscious or convulsive person. Artificial respiration may be required. See a doctor or contact a poison control centre, IMMEDIATELY.

IF INHALED, move to fresh air, change clothing. Wash thoroughly and see a doctor. Artificial respiration may be required.

IF IN EYES, IMMEDIATELY flush eyes with large quantities of clean water. Hold eyelids apart to ensure thorough rinsing. See a doctor.

IF ON SKIN, remove contaminated clothing IMMEDIATELY. Wash skin thoroughly with soap and water.

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

TOXICOLOGICAL INFORMATION

Endosulfan is a central nervous system stimulant. Symptoms of poisoning are nausea, headache, general feeling of being unwell, followed by generalized convulsion. There is no specific antidote. Use saline cathartics and gastric lavages (avoid aspiration). This product contains PETROLEUM DISTILLATES. Amobarbital sodium or thiopental sodium may be given intravenously for convulsion. Do not give stimulants.

STORAGE

CANNOT be stored below freezing. If stored for one year or longer, shake well before using. Store the tightly closed container away from seeds, fertilizer, plants and foodstuffs. Keep in original container during storage.

DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the 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.

NOTICE TO USER: This control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use a control product under unsafe conditions.

NOTICE TO BUYER: Seller's guarantee shall be limited to the terms set out on this label and, subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

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DATAPAK

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DIRECTIONS FOR USE

ENDOSULFAN 400E Insecticide is generally effective in controlling the insects and mites listed below. Use the rate of ENDOSULFAN 400E Insecticide in 100-300 L of water/ha unless otherwise indicated. DO NOT APPLY BY AIR. Mist blowers and boom sprayers utilizing a controlled air flow to facilitate particle size and spray deposition may be used at a vehicle speed of 5 - 15 km/h. Unless otherwise specified, apply when insects first appear and repeat to maintain control. Do not apply more than twice per season. Use sufficient water for thorough coverage, depending on foliage development and spray equipment. Thorough wetting of all plant parts is essential for good results.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that ENDOSULFAN 400E Insecticide contains a Group 2A insecticide/acaricide. Any insect/mite population may contain individuals naturally resistant to ENDOSULFAN 400E Insecticide and other Group 2A insecticide/acaricide. The resistant individuals may dominate the insect/mite population if this group of insecticides/acaricides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide/acaricide resistance:

- Where possible, rotate the use of ENDOSULFAN 400E Insecticide or other Group 2A insecticides/acaricides with different groups that control the same pathogens.
- Avoid application of more than the indicated number of sprays of ENDOSULFAN 400E Insecticide or other insecticides/acaricides in the same group in a season.
- Use tank mixtures with insecticides/acaricides from a different group when such use is permitted.
- Insecticide/acaricide 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 the Technical Service, United Agri Products, 1-800-265-4624 or at www.uap.ca.

FRUIT INSECTS

For control of insects and mites on fruit, apply in accordance with the directions in the following table. Apply by ground only to fruit crops.

CROP - Insects	RATE	METHOD OF APPLICATION
APRICOT, CHERRY, PEACH, PLUM Peachtree borer (root borer) Lesser peachtree borer	1.75 L/ 1000 L	Make 3 applications in Eastern Canada (2 applications in B.C.) when local government spray calendars recommend spraying. Spray all bark on trunk and scaffold limbs, apply coarse spray with gun at 2100-2800 kPa pressure. Avoid spraying fruit. Do not apply within 15 days of harvest.
Preplant Treatment Peachtree borer	1.25 L/100 L	Dip roots and crown of peach tree seedlings prior to planting. If not planted immediately, (Root borer) allow to dry before placing in storage. Wear rubber gloves while handling.
STRAWBERRY Cyclamen mite	5 L/ha	Apply before bud formation. Repeat once after harvest if necessary. For heavy mite infestations, topping of plants before postharvest treatment may be advisable. Apply 5 L in 4000-8000 L of spray per ha. Use higher water volume under severe mite pressure. *See Limitations.
Tarnished plant bug	1.25 L/ha in 2000 L water	Apply at first bloom and repeat once 10 days later. *See Limitations.
Strawberry aphid	1.25 L/ha in 2000 L water	Apply when insects first appear. Repeat once if necessary. *See Limitations.
Meadow spittlebug	1.25 L/ha in 2000 L water	Apply as soon as possible after eggs hatch. *LIMITATIONS: Do not apply within 7 days of harvest. Do not apply when bees are working in the field. NOTE: Geese may be used for weeding 24 hours after treatment. Such geese may be used for human consumption after 2 months following the last application. DO NOT treat more than 2 times per season.
CROP - Insects	RATE	METHOD OF APPLICATION
VEGETABLE AND FIELD CROPS BEANS Bean aphid, Mexican bean beetle, Potato leafhopper, Green cloverworm	1.5-2.5 L/ha	Apply sprays in sufficient water to cover. Repeat as necessary. Treat upper and lower leaf surfaces. Limitations: Do not apply within 2 days of harvest. Do not ensile or feed crop refuse to livestock. Do not use on lima beans.
SUGARBEET Beet webworm, Green peach aphid	2-2.75 L/ha	Apply when insects first appear. The 2 L/ha rate will control aphids only. Limitations: Do not apply within 45 days of harvest. Use higher rate under severe insect pressure. Do not feed treated foliage to livestock, but roots may be fed. Do not apply more than once per season.
BROCCOLI, CABBAGE, BRUSSELS SPROUTS, CAULIFLOWER Aphids, Cabbage looper, Diamondback moth (larvae), Flea beetles, Imported cabbageworm	1.5-2 L/ha	Apply when first signs of feeding appear. Do not apply more than twice per season. Use lower rates for small larvae or flea beetles. Use higher rates for aphids and large larvae and all loopers. Use drop pipes to spray undersides of foliage. For loopers repeat every 7 days. Limitations: Do not apply within 7 days of harvest. Do not ensile or feed crop refuse to livestock.

RUTABAGA, TURNIP Aphids, Cabbage looper, Diamondback moth, Flea beetle, Imported cabbageworm	2 L/ha	Apply when insects first appear. Do not feed treated foliage to livestock; roots may be fed. Limitations: Do not apply 45 days before harvest. Do not apply more than twice per season.
CROP - Insects	RATE	METHOD OF APPLICATION
CELERY, SPINACH, HEAD LETTUCE (field) Aphids, Cabbage looper Imported cabbageworm Tarnished plant bug	2 L/ha	Trim celery at harvest. Do not apply more than once on spinach or two times on lettuce per season. Do not apply to greenhouse lettuce. Do not apply within 14 days of harvest. Do not ensile or feed crop refuse to livestock.
LETTUCE (Greenhouse) Green peach aphids	1.5 L/ha	Apply when aphids appear. Do not apply more than once per crop season. Use a low volume mist or a high volume spray in 12 L to 1000 L of water/ha. Do not apply within 14 days of harvest.
CUCUMBER, MELONS, PUMPKIN, SQUASH Aphids, Cucumber beetles, Potato flea beetle, Squash vine borer	1.5 L/ha	Apply when insects first appear. Do not apply more than twice per season. For Squash vine borer make 4 applications to base and stem of plant at 7 day intervals beginning in late June. Limitation: Do not apply within 2 days of harvest.
EGGPLANT, PEPPER, TOMATO Colorado potato beetle, Flea beetle, Aphid, Hornworms, Pepper maggot, Leafhoppers, Tomato fruitworm	1.5 - 2.75 L/ha	Apply when insects first appear. Do not apply more than twice per season. For fruitworm, use 4.2 L per ha. Limitation: Do not apply within 2 days of harvest.
CUCUMBER, TOMATO (green house) Aphids, Whitefly	1.25-1.5 L in 1000 L water	Spray plants thoroughly. Do not apply more than twice per season. Wear suitable mask or respirator. Limitation: Do not apply within 2 days of harvest.
CROP - Insects	RATE	METHOD OF APPLICATION
POTATO Aphids, Colorado potato beetle, Leafhoppers, Potato flea beetle, Tuber flea beetle Tarnished plant bug	1.5 L/ha	Apply when insects first appear. Do not apply more than twice per season. May be applied up to one day before harvest. Cull potatoes may be fed to livestock. Limitation: Do not ensile or feed crop refuse to livestock.
PEA (canning, seed) Pea aphid, Pea weevil	2 L/ha 1.5-2 L/ha	As Above. Treat only if crop is to be mechanically harvested by combine. Apply when insects first appear. DO NOT apply more than 2 times per season. Limitations: Do not apply within 7 days of harvest. Do not feed fresh, dry or ensiled vines and pods to any livestock or allow grazing in treated fields.
CORN (field, sweet) Corn leaf aphid Corn earworm	2.75 L/ha 2.75-4.25 L/ha	Apply when aphids are first noticed. Do not apply more than twice per season. Apply to the silk as recommended by local authorities. Limitations: Do not ensile or feed crop refuse to livestock. Do not apply more than twice per season. Do not apply within 50 days of harvest on commercially grown corn crops. Refuse may be fed to livestock.
ALFALFA, CLOVER Meadow spittlebug	0.75 L/ha	Apply as eggs begin hatching. Limitations: Do not apply more than twice per season. Do not feed forage to livestock within 30 days after application. Do not apply when bees are working in the field.
CROP - Insects	RATE	METHOD OF APPLICATION
SUNFLOWER Sunflower beetle	1.5 L/ha	Apply when the plants are 45 cm high, using a row-crop sprayer with 45 litre nozzle. Best control is obtained if 110 litres of water per hectare are used. Do not make more than one application per season and not later than 60 days before harvest. Do not feed treated foliage to livestock.
ORNAMENTALS (greenhouse, outdoors) Aphids, Cyclamen mite, Elm leaf beetle, Whitefly, Rose chafer, Spruce gall aphid, Black Vine Weevil	1.25-1.75 mL in 1000 L of water	In greenhouse wear suitable mask or respirator. For Cyclamen mite apply very thoroughly. Do not apply on Birch trees; nor Bonnafon mums and geraniums in greenhouse; or on mum cuttings within 1 month after potting. For Spruce gall aphid apply in first half of May For Black vine weevil, spray lower branches and soil in early July at 1.75 litres per 1000 litres.

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