

2013-2370

2013-07-22

WSP label

THIONEX 50W WSP

Wettable Powder Insecticide

In Water Soluble Pouches

GUARANTEE: Endosulfan 50%
Warning, contains the allergen soy.

REG. NO. 29990 PCP ACT

DANGER POISON

**KEEP OUT OF REACH OF CHILDREN
VERY TOXIC TO FISH**

READ THE LABEL BEFORE USING

NET CONTENTS: 454 g

Overpak

GROUP	2A	INSECTICIDE
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THIONEX 50W WSP
Wettable Powder Insecticide

COMMERCIAL

This product is not to be used in and around homes or other residential areas such as parks, school grounds and playing fields. It is not for use by homeowners or other uncertified users.

NOTE TO USER	
This product may only be used on:	apricot, celery, cherry, field cucumber, eggplant, lettuce (head), melon, ornamentals (outdoors), ornamentals (greenhouse), peach, field pepper, plum, potato, pumpkin, squash, strawberry
DO NOT use this product on any crop or site after December 31, 2016.	
This product is not to be used in and around homes or other residential areas such as parks, school grounds and playing fields. It is not for use by homeowners or other uncertified users.	

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REGISTRATION NO. 29990 PEST CONTROL PRODUCTS ACT

LOVELAND PRODUCTS CANADA INC.
789 Donnybrook Drive
Dorchester, Ontario
N0L 1G5
1-800-328-4678

NET CONTENTS: 2.27kg (5 x 454 g water soluble pouches)
WATER SOLUBLE PACKETS MAY NOT BE SOLD SEPARATELY

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

Hazardous if swallowed, inhaled or absorbed through the skin. After handling, wash thoroughly with soap and water before drinking or smoking. Wash contaminated clothing separately from other laundry before reuse.

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. Do not contaminate fertilizer, seed and like commodities. Causes severe injury to Concord grapes. Some injury may occur to lima beans, geraniums and chrysanthemums.

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., visit CropLife Canada's website at: www.croplife.ca.

Apply only when the potential for drift to areas of human habitation or areas of human activity (houses, cottages, schools and recreational areas) is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

DO NOT make silage from treated crop or feed crop refuse to livestock or allow them to graze on treated sites.

PERSONAL PROTECTIVE EQUIPMENT

Keep the following personal protective equipment immediately available for use in case of emergency (i.e. a broken package, spill or equipment breakdown): chemical-resistant coveralls, chemical-resistant gloves, chemical-resistant headgear and a NIOSH-approved respirator.

Mixing and Loading Wettable Powder in Water Soluble Bags

Wear chemical-resistant coveralls over long-sleeved shirt and long pants, chemical resistant gloves, and shoes plus socks.

Application using handheld equipment

Wear coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves and shoes plus socks during application.

DO NOT handle more than 0.54 kg of product in a day per person. (At the rate of 1.2 kg product/1000 L water, this allows an applicator to apply approximately 450 L spray mixture per day.) Note: this restriction is in place to minimize exposure to individual operators and means that the application may need to be performed over multiple days or using multiple applicators.

For apricot, peach, cherry and plum: do not handle more than 32 kg of product in a day per person (At the rate of 4.5 kg/ha, this allows for treatment of approximately 7 ha/day.) Note: this restriction is in place to minimize exposure to individual operators and means that the application may need to be performed over multiple days or using multiple applicators.

Application using airblast equipment

Applicators using airblast equipment must either:

(i) use a closed cab that provides both a physical barrier and respiratory protection (i.e., dust/mist filtering and/or vapour/gas purification system). The closed cab must have a chemical resistant barrier that totally surrounds the occupant and prevents contact with pesticides outside the cab. Wear coveralls over a long-sleeved shirt, long pants, shoes plus socks. Have chemical resistant gloves ready for leaving the cab during calibration, repair or cleaning of equipment; or

(ii) use an open cab and wear chemical resistant coveralls over a long-sleeved shirt, long pants, chemical-resistant shoes plus socks, chemical resistant gloves, chemical-resistant headgear, and a NIOSH approved respirator. Chemical resistant headgear includes So'Westers, or large brimmed, waterproof hats, and hoods with sufficient neck protection. Avoid touching face or other unprotected parts of the body during application.

Application using groundboom equipment

Use a closed cab that provides both a physical barrier and respiratory protection (i.e dust/mist filtering and/or vapour/gas purification system). The closed cab must have a chemical resistant barrier that totally surrounds the occupant and prevents contact with pesticides outside the cab. Wear coveralls over long-sleeved shirt and long pants, and shoes plus socks. Have chemical resistant gloves ready for leaving the cab during calibration, repair or cleaning of equipment.

For potatoes, use every other year only. Do not handle more than 174 kg product in a day per person. (At the rate of 1.75 kg product/ha, this allows for treatment of approximately 100 ha/day.) Note: this restriction is in place to minimize exposure to individual operators and means that the application may need to be performed over multiple days or using multiple applicators.

Application in greenhouses

When spraying in greenhouses and during commercial or prolonged exposure in spray-mixing and loading operations, wear synthetic rubber gloves and a suitable mask or respirator for ENDOSULFAN protection, such as American Optical Respirator 5058 or Wilson Agritox Respirator. Avoid breathing dust.

Early entry to treated areas

If early entry into treated areas is required (i.e. prior to the specified restricted-entry interval[REI]), workers must wear coveralls over a long-sleeved shirt and long pants, chemical-resistant gloves, shoes plus socks and either goggles or a face shield.

ENVIRONMENTAL HAZARDS

TOXIC to aquatic organisms, birds and small wild mammals.

TOXIC to bees exposed to direct treatment, drift or residues on flowering crops or weeds.

DO NOT apply this product to flowering crops or weeds if bees are visiting the treatment area. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site.

TOXIC to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

To minimize the release of endosulfan into the environment due to volatilization, endosulfan should only be applied on cool mornings and evenings when air temperatures are 15°C or lower. To further reduce volatilization to the atmosphere, incorporation into the soil should occur concurrently with applications.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that THIONEX 50W WSP Insecticide contains a Group 2A insecticide/acaricide. Any insect/mite population may contain individuals naturally resistant to THIONEX 50W WSP Insecticide and other Group 2A insecticides/acaricides. 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 THIONEX 50W WSP Insecticide or other Group 2A insecticides/acaricides with different groups that control the same pests in a field.
- Avoid application of more than the indicated number of sprays of THIONEX 50W WSP 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, Loveland Products, 1-800-328-4678 or at www.uap.ca.

FIRST AID

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 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 SWALLOWED: Call a poison control centre or doctor immediately for treatment advice.

Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible.

Call a poison control centre or doctor for treatment advice.

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. Amobarbital-sodium or thiopental-sodium may be given intravenously for convulsion. Do not give stimulants.

DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instruction 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 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 pest 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 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.

DATAPAK

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To minimize the release of endosulfan into the environment due to volatilization, endosulfan should only be applied on cool mornings and evenings when air temperatures are 15°C or lower. To further reduce volatilization to the atmosphere, incorporation into the soil should occur concurrently with applications.

DIRECTIONS FOR USE

Unless otherwise mentioned, apply when insects first appear and repeat as required to maintain control. Rates “per 1000 litres” are on basis of dilute spray. Rates “per hectare” for tree fruits are based on mature trees. For vegetables and small fruits, use sufficient water for thorough coverage, depending on foliage development and spray equipment.

Thorough wetting of all plant parts, which are to be treated, is essential for good results. Agitate continuously.

Apply by ground only. **DO NOT** apply by air.

DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries or estuarine/marine habitats.

As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Field sprayer application:

DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) fine classification. Boom height must be 60 cm or less above the crop or ground.

Airblast application:

DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

BUFFER ZONES:

Use of the following spray methods or equipment DOES NOT require a buffer zone: hand-held or backpack sprayer and spot treatment.

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 a 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 Habitat of Depths:		Estuarine/Marine Habitats of Depths:	
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater Than 1 m
Field sprayer*	field cucumber, squash, melon, pumpkin, eggplant, field pepper, potato, strawberry		90	40	120	120
	lettuce (head)		75	30	120	120
	celery		50	20	120	120
Airblast	apricot, cherry, peach, plum	Early Growth Stage	70	60	90	80
		Late Growth Stage	60	50	80	70

* For field sprayer application, buffer zones can be reduced by using drift reducing spray shields. When using as pray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labelled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labelled buffer zone can be reduced by 30%.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that THIONEX 50W WSP Insecticide contains a Group 2A insecticide/acaricide. Any insect/mite population may contain individuals naturally resistant to THIONEX 50W WSP Insecticide and other Group 2A insecticides/acaricides. 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 THIONEX 50W WSP Insecticide or other Group 2A insecticides/acaricides with different groups that control the same pests in a field.
- Avoid application of more than the indicated number of sprays of THIONEX 50W WSP 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, Loveland Products, 1-800-328-4678 or at www.uap.ca.

CROPS	INSECTS	RATE / HECTARE
APRICOT, CHERRY, PEACH, PLUM (EASTERN AND WESTERN CANADA)	Peach tree borer (Root borer) Lesser peach tree borer: Make 3 applications in Eastern Canada (2 applications in B.C.) by handheld equipment when local government spray calendar recommends spraying. Spray thoroughly all bark areas on trunk and main scaffold limbs. Apply coarse spray with a sprayer at 2000-2700kPa pressure. Avoid spraying on the fruit. Do not exceed 600 g a.i./1000 L for application with high-pressure handwand equipment.	1.5 kg/1000 L Equivalent to 3 water soluble packets(wsp)/1000 L
	Black cherry aphid, Peach silver mite, Plum rust mite, Green peach aphid, Mealy plum aphid, Twig borer, Tarnished Plant bug, Stink bug, Leafhopper and Eye-spotted budmoth. For Peach silver mite use the higher rate. Apply at the time and rates as recommended in local government calendar or spray letters. Do not make more than 2 applications by handheld equipment during the fruiting season.	0.75-1 kg/1000 L Equivalent to 2 wsp/1000 L 3.25-4.5 kg/ha Equivalent to 7-10 wsp/ha
Restricted Entry Interval (REI) of 20 days for thinning, 7 days for all		

CROPS	INSECTS	RATE / HECTARE
	<p>other activities. DO NOT APPLY within 20 days of harvest. DO NOT exceed 2800 g a.i./ha per season. Apply a maximum of 3 applications per year by handheld equipment.</p>	
STRAWBERRY	Cyclamen mite: Apply 4000-8000 L/ha depending on foliage development before bud formation in spring; repeat after harvest if mites present.	2-4 kg/ha Equivalent to 4-9 wsp/ha
	Tarnished plant bug, Strawberry aphid, Spittle bug: Apply 2000 L/ha. For plant bug, apply at first bloom and repeat 10 days later. For aphid, apply when noticed, repeat if necessary (minimum 7 day interval). For Spittle bug, apply when eggs hatch. ENDOSULFAN is moderately toxic to bees and can be applied in early morning or evenings when bees are not working in the field. Geese may be used for weeding after 24 hours following application of THIONEX 50W WSP. Such geese may be used for human consumption after 2 months following the last application.	2 kg/ha Equivalent to 4 wsp/ha
	<p>Restricted Entry Interval (REI) of 7 days for scouting, hand weeding, irrigation, mulching; 12 days for other activities. DO NOT APPLY within 12 days of harvest. DO NOT exceed 4000 g a.i./ha per season. DO NOT exceed two applications per season; minimum 7 day interval. Spray volume: Apply in sufficient water for thorough coverage.</p>	
POTATO	Aphid, Colorado potato beetle, Potato flea beetle, Tuber flea beetle, Leafhopper, Tarnished plant bug: Apply when insects first appear. For Tarnished plant bug, use one application of 1.5 kg/ha. Do not ensile or feed crop refuse (vines, tops, stocks or threshings) to livestock.	1.1-1.5 kg/ha Equivalent to 2-3 wsp/ha
	<p>Restricted Entry Interval (REI) of 5 days. DO NOT APPLY within 5 days of harvest. DO NOT exceed two applications per season, minimum 7 day interval. DO NOT exceed 2200 g a.i./ha per season. For use every other year only.</p>	
FIELD PEPPER, EGGPLANT	Aphid, Hornworm, Colorado potato beetle, Flea beetle, pepper maggot: Apply lower rate when insects first appear, repeat if required. Spray plants thoroughly, also underside of leaves. If applied at 2.25 kg/ha, the Tomato fruit worm is also controlled.	1.1-2.25 kg/ha Equivalent to 2-5 wsp/ha

CROPS	INSECTS	RATE / HECTARE
<p>Restricted Entry Interval (REI) of 9 days. DO NOT APPLY within 27 days of harvest. DO NOT exceed two applications per season, minimum 7 day interval. DO NOT exceed 2200 g a.i./ha per season.</p>		
FIELD CUCUMBER, MELON	Aphid, Cucumber beetle, Squash vine borer, Potato flea beetle: Apply when aphids and beetles first appear and repeat if required. For squash vine borer, thoroughly spray the base and stems of plants (starting in late June).	1.1 kg/ha Equivalent to 2 wsp/ha
	Tarnished Plant Bug Ground application: mix in sufficient water for good coverage. Apply when pest first observed, repeat if required.	1.1 kg/ha Equivalent to 2 wsp/ha
	<p>Restricted Entry Interval (REI): 4 days DO NOT APPLY within 13 days of harvest. Do not exceed 2 applications per season, minimum 7 day interval. Do not exceed 2200 g a.i./ha per season.</p>	
SQUASH, PUMPKIN	Aphid, Cucumber beetle, Squash vine borer, Potato flea beetle: Apply when aphids and beetles first appear and repeat if required. For squash vine borer, thoroughly spray the base and stems of plants (starting in late June).	1.1 kg/ha Equivalent to 2 wsp/ha
	Tarnished Plant Bug Ground application: mix in sufficient water for good coverage. Apply when pest first observed, repeat if required.	1.1 kg/ha Equivalent to 2 wsp/ha
	<p>Restricted Entry Interval (REI): 12 days for hand weeding, pruning, hand thinning; 10 days for all other activities. Do not exceed 2 applications per season, minimum 7 day interval. Do not exceed 2200 g a.i./ha per season.</p>	
CELERY	Aphid, Cabbage looper, Imported cabbage worm: Trim celery at harvest. Do not feed crop refuse to livestock.	1.75 kg/ha Equivalent to 4 wsp/ha
	<p>Restricted Entry Interval (REI) of 4 days. DO NOT APPLY within 17 days of harvest. DO NOT exceed 1 application per season.</p>	
HEAD LETTUCE	Aphid, Cabbage looper, Imported cabbage worm: Do not feed crop refuse to livestock.	1.75 kg/ha Equivalent to 4 wsp/ha
	<p>Restricted Entry Interval (REI) of 4 days. DO NOT APPLY within 17 days of harvest. DO NOT APPLY to greenhouse lettuce. Do not exceed two applications per season, minimum 7 day interval.</p>	
ORNAMENTALS (Outdoors and	Aphids, Whitefly, Cyclamen mite, Black vine weevil, Rose chafer, Spruce gall aphid, Elm leaf beetle: Do	1 kg/1000 L Equivalent to 2

CROPS	INSECTS	RATE / HECTARE
Greenhouse)	not use on birch trees. Cyclamen mite requires very thorough application. On Chrysanthemums, apply before flowering for best results. DO NOT treat Bonnafon mums and geraniums in the greenhouse or mum cuttings within one month of planting. DO NOT exceed 600g a.i. /1000L of water for application with high-pressure handwand equipment.	wsp/1000L
	For Black vine weevil on Japanese yew, spray lower branches and soil in early July. For Spruce gall aphid apply in 1st half of May. DO NOT APPLY using high-pressure handwand equipment.	1.5kg/1000 L Equivalent to 3 wsp/1000L
	Restricted Entry Interval (REI) of 17 days for handline irrigation and 4 days for any other activities for outdoor use. Restricted Entry Interval (REI) of 2 days for greenhouse use. DO NOT exceed 2800 g a.i./ha per season. For greenhouse use, DO NOT exceed 1 application per crop cycle. For outdoor use, DO NOT exceed 2 applications per year, minimum 7 day interval.	

COMPATIBILITY: Endosulfan is compatible with most commonly used insecticides and fungicides, except Bordeaux mixture and hydrated lime.

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. Amobarbital-sodium or thiopental-sodium may be given intravenously for convulsion. Do not give stimulants.

DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
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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.