

GROUP 2A INSECTICIDE

NET CONTENTS: 2 kg

THIODAN®
50 WP INSECTICIDE
WETTABLE POWDER

COMMERCIAL

VERY TOXIC TO FISH

DANGER



POISON

TRIPLE



RINSE

GUARANTEE: Endosulfan 50%
Warning, contains the allergen soy
REGISTRATION NO.: 15821
PEST CONTROL PRODUCT ACT

READ THE LABEL BEFORE USING

BAYER CROPSCIENCE INC.
100 – 3131 114th Avenue SE
Calgary, Alberta T2Z 3X2
1-(888) 283-6847

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN: Hazardous if swallowed, inhaled or absorbed through the skin. Avoid breathing dust or spray mist. After handling, wash thoroughly with soap and water before eating, drinking 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, rivers 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 to Lima Beans, Geraniums and Chrysanthemums. When spraying in greenhouses and during commercial or prolonged exposure to spray, mixing and loading operations, wear chemical resistant gloves and a suitable mask or respirator for THIODAN 50WP protection, such as American Optical Respirator 5058 or Wilson Agritox Respirator.

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., consult www.cropro.org/.

FIRST AID:

INGESTION: If swallowed, induce vomiting by touching back of throat with finger; repeat until vomit fluid is clear. Rush patient to nearest hospital taking this labelled container with you, or contact a poison control centre.

SKIN CONTACT: In case of skin contact, remove contaminated clothing and wash skin with soap and water.

EYE CONTACT: If in eyes, flush with plenty of water for 15 minutes and go to nearest hospital at once, or contact a poison control centre.

INHALATION: If inhaled, remove patient to fresh air, administer artificial respiration if not breathing and summon medical help immediately.

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

TOXICOLOGICAL INFORMATION:

Medical personnel should contact Bayer's medical information services toll-free: 1-800-334-7577. 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 may be given intravenously for convulsions. Do not give stimulants.

RESISTANCE MANAGEMENT

For resistance management, please note that Thiodan 50 WP contains a Group 2A insecticide. Any insect population may contain individuals naturally resistant to Thiodan 50 WP and other Group 2A insecticides. The resistant individuals may dominate the insect population if this group of insecticides is 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 resistance:

- Where possible, rotate the use of Thiodan 50 WP or other Group 2A insecticides with different groups that control the same pests in a field.
- 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 Bayer CropScience representative, 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 or to report suspected resistance, contact Bayer CropScience via internet at www.bayercropscience.ca or call 1-888-283-6847.

STORAGE:

Store the tightly closed bags away from feeds, seeds, fertilizer, plants and foodstuffs. Keep in original container during storage. Store at temperatures between 5 and 30 ° C.

CONTAINER DISPOSAL:

1. Empty the bag thoroughly into the spray mixture in the tank.
2. Render the empty bag unsuitable for further use.
3. Dispose of the bag in accordance with provincial requirements.
4. For information on the disposal of unused, unwanted product, contact the provincial regulatory agency or the manufacturer. Contact the manufacturer and the provincial regulatory agency in case of a spill or for clean-up of spills.

DISPOSAL OF UNUSED SPRAY SOLUTION:

If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the field just sprayed - NOT ON THE CROP and away from water supplies, ditches and irrigation canals.

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 the 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.

DIRECTIONS FOR USE

DO NOT APPLY BY AIR. Unless otherwise mentioned, apply when insects first appear and repeat as required to maintain control. Rates “per 1000 L” are on the 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 spray mixture continuously.

CROPS, INSECTS	METHOD OF APPLICATION	RATE
APPLE, PEAR Green Apple Aphid, Rosy Apple Aphid, Pearleaf Blister Mite, Tarnished Plant Bugs	EASTERN CANADA Apply when local government spray letters or calendars recommend spraying for these insects. Do not make more than 2 applications after Calyx. DO NOT APPLY WITHIN 15 DAYS OF HARVEST.	1.0 kg/1000L 4.5 kg/ha
Rust Mite, Pear Psylla, Codling Moth	Apply when local government spray letters or calendars recommend spraying for these insects. DO NOT APPLY WITHIN 15 DAYS OF HARVEST.	1.5kg/1000 L 6.75 kg/ha
APPLE, PEAR Green Apple Aphid, Leafhopper, Rosy Apple Aphid, Lygus Bugs	BRITISH COLUMBIA Apply according to provincial recommendations. DO NOT APPLY WITHIN 15 DAYS OF HARVEST.	0.75kg/1000L 3.25 kg/ha
Rust Mite, Wooly Apple Aphid, Pear Leaf Blister Mite	Apply when local government spray letters or calendars recommend spraying for these insects. DO NOT APPLY WITHIN 15 DAYS OF HARVEST.	1.0 kg/1000L 4.5 kg/ha
PEACH, APRICOT, PLUM, CHERRY Peach Tree Borer (Root Borer), Lesser Peach Tree Borer	EASTERN AND WESTERN CANADA Make 3 applications in Eastern Canada (2 applications in B.C.) when local government spray calendar recommends spraying. Spray thoroughly all bark area on trunk and main scaffold limbs. Apply coarse spray with a gun at 2000-2750 kPa pressure. Avoid	1.5 kg/ 1000 L

spraying on the fruit. DO NOT APPLY WITHIN 15 DAYS OF HARVEST.

Black Cherry Aphid, Peach Silver Mite, Plum Rust Mite, Green Peach Aphid, Mealy Plum Aphid, Twig Borer, Plant Bugs, Stink Bugs, Leafhopper, Eye-Spotted Bud Moth	Also controls Leafhopper, and Eye-Spotted Budmoth. For Peach Silver Mite, use the higher rate. Apply at the time and rate as recommended in local government spray letters or calendars. Do not make more than 2 applications during the fruiting season. DO NOT APPLY WITHIN 15 DAYS OF HARVEST	0.75-1.0 kg/ 1000 L, 3.25-4.5 kg/ha
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APPLE

White Apple Leafhopper, Potato Leafhopper	Apply late July, early August when young nymphs are at threshold levels. Make one application per year. DO NOT APPLY WITHIN 15 DAYS OF HARVEST.	2.6 kg/ha
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GRAPE

Phylloxera (leaf form) in Ontario, Leafhopper in British Columbia	To control the leaf-form of Phylloxera, apply in regular post-bloom spray and repeat in the first cover spray. Spray 3000 L of spray mixture per hectare as thorough coverage is necessary for good control. DO NOT APPLY LATER THAN 30 DAYS BEFORE HARVEST.	1.0 kg/ 1000 L
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STRAWBERRY Cyclamen Mite

	Apply in 4000-8000 L of water per hectare depending on foliage development before bud formation in Spring. Repeat after harvest if mites present.	4.0 kg/ha
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Tarnished Plant Bug Strawberry Aphid, Meadow Spittlebug

	Apply in 2000 L of water per hectare. For Plant Bug, apply at first bloom and repeat 10 days later. For aphids apply when noticed. Repeat as necessary. For Meadow Spittle Bug apply when eggs hatch. DO NOT APPLY WITHIN 7 DAYS OF PICKING BERRIES.	2.0 kg/ha
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THIODAN 50WP is moderately toxic to bees and can be safely applied in early morning or evening when bees are not working in the field. Geese may be used for weeding after 24 hours following application of THIODAN 50 WP. Such geese may be used for human consumption after 2 months following the last application.

<p>POTATO Aphid,Colorado Potato Beetle, Potato Flea Beetle, Tuber Flea Beetle, Leafhopper, Tarnished Plant Bug</p>	<p>Apply when insects first appear; repeat as necessary to maintain control. For Tarnished Plant Bug, use 1.5 kg per hectare. May be applied up to the day of harvest. DO NOT ENSILE OR FEED CROP REFUSE (VINES, TIPS, STOCKS OR THRESHINGS) TO LIVESTOCK.</p>	<p>1.0-1.5 kg/ha</p>
<p>TOMATO, PEPPER, EGGPLANT Aphid,Hornworm, Col.Potato Beetle, Flea Beetle, Pepper Maggot, Leafhopper, Tomato Fruitworm</p>	<p>Apply when insects first appear; repeat as required. Spray plants thoroughly, also underside of leaves. If applied at 2.25 kg per hectare the Tomato Fruit Worm is also controlled. DO NOT APPLY WITHIN 2 DAYS OF HARVEST.</p>	<p>1.0-2.25 kg/ha</p>
<p>TOMATO, CUCUMBER (Greenhouse) Whitefly, Aphid</p>	<p>Spray plants thoroughly when insects first appear; repeat as necessary. Wear suitable mask or respirator. DO NOT APPLY WITHIN 2 DAYS OF HARVEST.</p>	<p>1.0-1.5 kg/ha</p>
<p>CUCUMBER, MELON, SQUASH, PUMPKIN Aphid, Cucumber Beetle, Squash Vine Borer, Potato Flea Beetle</p>	<p>Apply when aphids and beetles first appear and repeat as required. For Squash Vine Borer make 4 applications at 7 day intervals, starting late June and thoroughly spray the base and stems of plants. DO NOT APPLY WITHIN 2 DAYS OF HARVEST.</p>	<p>1.0 kg/ha</p>
<p>Tarnished Plant Bug</p>	<p>Ground application: mix in sufficient water for good coverage. Apply when pest first observed, repeat as required. DO NOT APPLY WITHIN 2 DAYS OF HARVEST.</p>	<p>1.1 kg/ha</p>
<p>CABBAGE, BROCCOLI,</p>	<p>For all loopers, use 1.75 kg and</p>	<p>1.0-1.75</p>

<p>CAULIFLOWER, BRUSSELS SPROUTS Aphid, Flea Beetle, Imported Cabbage Worms, Cabbage Looper, Diamondback Moth (larvae)</p>	<p>use drop pipes to spray underside of foliage. Use the 1 kg rate only for small worms and flea beetles. For aphids and large larvae use the 1.75 kg rate. DO NOT FEED CROP REFUSE TO LIVESTOCK. DO NOT APPLY LATER THAN 7 DAYS BEFORE HARVEST.</p>	<p>kg/ha add 125-250 g of a recommended wetter- sticker/1000 L of spray</p>
<p>CELERY, SPINACH, HEAD LETTUCE Aphid, Cabbage Looper, Imported Cabbage Worm, Tarnished Plant Bug</p>	<p>Trim Celery at harvest. Do not apply more than once on Spinach or three times on Lettuce. DO NOT FEED CROP REFUSE TO LIVESTOCK. DO NOT APPLY TO GREENHOUSE LETTUCE. DO NOT APPLY WITHIN 14 DAYS OF HARVEST.</p>	<p>1.75 kg/ha</p>
<p>ORNAMENTALS (Outdoors and Greenhouse) Aphid, Whitefly, Cyclamen Mite, Black Vine Weevil, Rose Chafer, Spruce Gall Aphid, Elm Leaf Beetle</p>	<p>Do 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. When applying in Greenhouse, wear suitable mask or respirator. For Black Vine Weevil on Japanese Yew, use 1.5 kg/1000 L and spray lower branches and soil in early July. For Spruce Gall Aphid apply in first half of May.</p>	<p>1.0-1.5 kg/ 1000 L</p>

FOR MORE INFORMATION, CONTACT:

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