



MAKHTESHIM
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 NORTH AMERICA

RESTRICTED USE PESTICIDE

Due to acute toxicity to humans, aquatic organisms, and avian species. For retail sale to and use only by certified applicators or persons under their direct supervision, and only for these uses covered by the certified applicator's certification.

**FOR CONTROL OF VARIOUS INSECT PESTS IN
 CONIFERS (GROWN AS CHRISTMAS TREES)
 EPA SLN NO. OR-030012**

**SUPPLEMENTAL LABELING FOR DISTRIBUTION AND USE ONLY
 IN THE STATE OF OREGON**

This label valid until December 31, 2013 or until otherwise amended, withdrawn, canceled, or suspended.

**THIONEX[®] 50W
 INSECTICIDE**

For Agricultural or Commercial Use Only

ACTIVE INGREDIENT	% BY WEIGHT
Endosulfan: (Hexachlorohexahydromethano-2,4,3-benzodioxathiepin-3-oxide)	50.0%
INERT INGREDIENTS:	50.0%
TOTAL 100.0%	

KEEP OUT OF REACH OF CHILDREN

DANGER-POISON
PELIGRO

SEE OTHER PANELS FOR ADDITIONAL PRECAUTIONARY INFORMATION.

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish and aquatic invertebrates, and toxic to birds, and mammals. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. See Spray Drift management instructions under the "Directions for Use" on the Federally registered label. Do not contaminate water when disposing of equipment wash waters or rinsate. This product must not be used in areas where impact on threatened endangered species is likely. Contact your State Fish and Game Agency before applying this product.

This pesticide is toxic to bees exposed to direct application. Applications should be timed to coincide with periods of minimum bee activity, usually between late evening and early morning. See Restrictions Section of this supplemental label for additional comments.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Not for use or storage in or around residential sites, including homes, non-agricultural outbuildings, non-commercial greenhouses, pleasure boats, recreational vehicles, preschools, day care centers, and applications to humans and pets. Do not use in undiluted form. This labeling and the base label must be in the possession of the user at the time of pesticide application. All applicable directions, restrictions, and precautions on the EPA registered label are to be followed. Personal Protective Equipment and Agricultural Use Requirements on the basic label must be followed. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

GENERAL INSTRUCTIONS

CROP	PEST	MAXIMUM RATE OF APPLICATION
Conifers (Grown as Christmas Trees)	Balsam Twig Aphid, Balsam Woolly Adelgid, Cooley Spruce Gall Adelgid, Douglas Fir Needle Midge, Pine Bark Adelgid, Eriophyid Needle Mite	Use 1 pound per 100 gallons (Ground application) Use 1 to 2 pounds per acre in a minimum of 5 gallons of water (Aerial Application)

RATE AND METHOD OF APPLICATION

- **Ground application:** Use 1 pound of Thionex 50W (1/2 pound active ingredient) per 100 gallons of water. Spray to wet and ensure thorough coverage. Depending on the size of trees being sprayed, 100 gallons of tank-mix will usually treat 2 to 4 acres.
- **Aerial application:** Use 1 to 2 pounds of Thionex 50 W (1/2 to 1 pound active ingredient) per acre in a minimum of 5 gallons of water.

TIMING OF APPLIATION

- **Balsam Twig Aphid:** Apply in spring to midsummer or when populations become noticeable throughout the field. During certain years, multiple insecticide applications may be necessary on harvest-sized trees to prevent sooty mold buildups that may render trees unsaleable.
- **Balsam Woolly Adelgid / Pine Bark Adelgid:** Apply just prior, at, or just after bud break when Adelgids are still in the crawler stage. A single application usually suffices.
- **Cooley Spruce Gall Adelgid:** Apply just prior, at, or just after bud break when Adelgids are still in the crawler stage. Application may also be made in the fall.
- **Douglas Fir Needle Midge:** Application timing should be determined through the use of fly emergence cages. Adults usually emerge shortly before bud break. Instructions for using fly emergence cages can be obtained through the local extension office.
- **Eriophyid Needle Mite:** Apply when new growth is 1 inch or less.

RESTRICTIONS / PRECAUTIONS:

- As a precaution, treat a few trees of each variety that are to be spray for potential phytotoxicity problems before treating the whole acreage.
- A 30 foot vegetative buffer strip must be maintained between all areas treated with this product and rivers, natural ponds, lakes, streams, reservoirs, marshes, estuaries, and commercial fish ponds.
- Do not apply this product through any type of irrigation system.
- Do not apply this product using a hand held or backpack sprayer.
- Do not exceed a maximum of 2 pounds of Thionex 50W (1 pound active ingredient) per acre per application for aerial application. For ground application, do not exceed a maximum of 1 pound of Thionex 50W (½ pound active ingredient) per 100 gallons of water.
- Do not exceed a maximum of 6 pounds of Thionex 50W (3 pounds active ingredient) per acre per year.
- Restricted Entry Interval (REI) of 4 days.
- This product is toxic to fish, birds and other wildlife. Thionex 50W must not be used in areas where impact on listed threatened or endangered species is likely. You may contact the Oregon Department of Fish and Wildlife, National Marine Fisheries Service, or U. S. Fish and Wildlife Service for information on listed threatened or endangered species. Consult the federal label for additional restrictions and precautions to protect aquatic organisms.
- A 100 foot spray buffer is required for ground boom applications between a treated area and water bodies. See the EPA registered product label for details and limits regarding boom width, nozzle selection, spray release height, and wind speed limitations.
- A 300 foot spray buffer is required for aerial applications between a treated area and water bodies. See the EPA registered product label for details and limits regarding boom width, nozzle selection, spray release height, and wind speed limitations.

24(c) Registrant:

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