

TREE CROPS: CONIFERS (PINES, SPRUCES) - (CYCLANEUSMA AND LOPHODERMIIUM NEEDLECASTS)

General Information

APPLICATION INSTRUCTIONS

Quali-Pro Chlorothalonil 500 ZN, a flowable product containing chlorothalonil, is recommended for use as a spray for the control of many important plant diseases.

RESISTANCE MANAGEMENT

To avoid the development of tolerant or resistant strains of fungi, Quali-Pro Chlorothalonil 500 ZN should always be tank mixed with a fungicide of different chemistry, and/or a fungicide of different chemistry should be alternated with Quali-Pro Chlorothalonil 500 ZN at each application. If after using Quali-Pro Chlorothalonil 500 ZN as recommended and the treatment is not effective, a tolerant or resistant strain of fungi may be present. Discontinue the use of Quali-Pro Chlorothalonil 500 ZN for at least one season.

Quali-Pro Chlorothalonil 500 ZN is effective for use in programs that attempt to minimize disease resistance to fungicides. Quali-Pro Chlorothalonil 500 ZN has a multi-site mode of action and may be used to delay or prevent the development of resistance to single-site fungicides. Consult with your Federal or State Cooperative Extension Service representatives for guidance on the proper use of Quali-Pro Chlorothalonil 500 ZN in programs that seek to minimize the occurrence of disease resistance to other fungicides.

GENERAL PRECAUTIONS

Quali-Pro Chlorothalonil 500 ZN can be used effectively in dilute or concentrate sprays. Thorough, uniform coverage is essential for disease control. Do not combine Quali-Pro Chlorothalonil 500 ZN in a spray tank with pesticides, surfactants, or fertilizers, unless prior use has shown the combination to be physically compatible, effective, and noninjurious under your conditions of use. Do not combine Quali-Pro Chlorothalonil 500 ZN with DiPel 4L, Foil, Triton AG-98, Triton B-1956, or Latron B-1956 as phytotoxicity may result from the combination when applied to crops listed

on the label.

Note: Prior to pouring, slowly invert container several times to assure uniform mixture.

Dosage rates on the label indicate pints of Quali-Pro Chlorothalonil 720 SFT per acre, unless specified otherwise. Under conditions favoring disease development, the high rate specified and shortest application interval should be used.

APPLICATION PRECAUTIONS AND REQUIREMENTS

This product must not be applied within 150 feet for aerial and air-blast applications or 25 feet for ground applications of marine/estuarine water bodies unless there is an untreated buffer area of that width between the area to be treated and the water body.

Limitations, Restrictions, and Exceptions

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Apply Quali-Pro Chlorothalonil 500 ZN in sufficient water and with proper calibration to obtain uniform coverage of tree canopy. Application with ground equipment is preferable to aerial application because ground applications generally give better coverage of the tree canopy. If application with ground equipment is not feasible, Quali-Pro Chlorothalonil 500 ZN may be applied with aircraft using at least 20 gallons of spray per acre. When concentrate sprays are used or when treating nonbearing or immature trees, the lower rate of Quali-Pro Chlorothalonil 500 ZN listed may be used. Both ground and aircraft methods of application are recommended unless specific directions are given for a crop. Application through sprinkler irrigation systems is not recommended unless specific directions are given for a crop. See the following instructions for application and calibration.

DO NOT allow livestock to graze treated areas.

The following spray volumes are recommended as gallons of spray per acre:

Forest Stands

Dilute: Not Used.

Concentrate: 10-20 gallons / acre (aircraft).

Christmas Trees

Dilute: 100 gallons / acre.

Concentrate: 10-50 gallons / acre (aircraft or ground equipment).

Nursery Beds

Dilute: 100 gallons / acre.

Concentrate: 5-10 gallons / acre (ground equipment only).

FOR CONIFERS (PINES, SPRUCES) - (CYCLANEUSMA AND LOPHODERMIIUM NEEDLECASTS)

Apply in early spring prior to budbreak. Repeat applications at approximately 6- to 8-week intervals, until spore release ceases in late fall. Apply monthly during periods of frequent rainfall, and where Lophodermium infections occur during dormancy (Pacific Northwest). During drought periods, applications may be suspended, then resumed upon next occurrence of needle wetness.

The minimum retreatment interval for established trees is 21 days. The minimum retreatment in nursery beds is 7 days.

Note: Cyclaneusma and Lophodermium Needlecasts (Pines)

Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Spray](#)

Rates

[field_rates 0](#)

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Restricted Entry Interval

12 hours

Timings

In early spring prior to budbreak