

# **CONIFERS (PINES) - CYCLANEUSMA AND LOPHODERMIIUM NEEDLECASTS**

## General Information

### APPLICATION INSTRUCTIONS

Quali-Pro Chlorothalonil DF, a dry 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 DF 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 DF at each application. If after using Quali-Pro Chlorothalonil DF 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 DF for at least one season.

Quali-Pro Chlorothalonil DF is effective for use in programs that attempt to minimize disease resistance to fungicides. Quali-Pro Chlorothalonil DF 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 DF in programs that seek to minimize the occurrence of disease resistance to other fungicides.

### GENERAL PRECAUTIONS

Quali-Pro Chlorothalonil DF can be used effectively in dilute or concentrate sprays. Thorough, uniform coverage is essential for disease control.

Do not combine Quali-Pro Chlorothalonil DF in a spray tank with pesticides, surfactants, or fertilizers, unless prior use has shown the combination to be physically compatible, effective, and noninjurious under conditions of use. Do not combine Quali-Pro Chlorothalonil DF with DiPel 4L, Foil, Triton AG-98, Triton B-1956 and Latron B-1956 as phytotoxicity may result from the combination when applied

to crops listed on the label.

The required amount of Quali-Pro Chlorothalonil DF should be added slowly into the spray tank during filling. With concentrate sprays, premix the required amount of Quali-Pro Chlorothalonil DF in a clean container and add to the spray tank as it is being filled. Keep agitator running when filling spray tank and during spray operations.

Dosage rates on the label indicate pounds of Quali-Pro Chlorothalonil DF 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

#### TREE CROPS - APPLICATION INSTRUCTIONS

Apply Quali-Pro Chlorothalonil DF 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 usually give better coverage of the tree canopy. If application with ground equipment is not feasible, Quali-Pro Chlorothalonil DF can be applied with aircraft. When concentrate sprays are used or when treating immature trees, the lower rate of Quali-Pro Chlorothalonil DF listed can be used. Both ground and aircraft methods of application are suggested unless specific directions are given for a crop. Do not apply through sprinkler irrigation systems 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 specified as gallons of spray per acre:

CROP SPRAY VOLUME (Gallons per Acre)

Conifers:

Forest Stands

Dilute: Not used

Concentrate: 10 to 20 (aircraft)

Christmas Trees

Dilute: 100

Concentrate: 10 to 50 (aircraft or ground equipment)

Nursery Beds

Dilute: 100

Concentrate: 5 to 10 (ground equipment only)

#### APPLICATION DIRECTIONS

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

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.

Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

Rates

[field rates 0](#)

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Restricted Entry Interval

12 hours

Timings

In early spring prior to budbreak.