

QUALI-PRO®



Distributor
CENTAUR
ASIA PACIFIC

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info@centaur-asiapacific.com

Chlorothalonil 500 ZN

Fungicide

ACTIVE INGREDIENT:		% BY WT.
Chlorothalonil (tetrachloroisophthalonitrile)	38.5%
INERT INGREDIENTS:	61.5%
TOTAL:	100.0%

Contains 4.17 Pounds of Active Ingredient Per Gallon (500 Grams Per Liter)

EPA Reg. No. 66222-150

KEEP OUT OF REACH OF CHILDREN

WARNING – AVISO

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.)

FIRST AID	
IF IN EYES:	<ul style="list-style-type: none">• 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 center or doctor for treatment advice.
IF SWALLOWED:	<ul style="list-style-type: none">• Call a poison control center 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 center or doctor.• Do not give anything by mouth to an unconscious or convulsing person.
IF INHALED:	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth if possible.• Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact Prostar at 1-877-250-9291 for emergency medical treatment information.	
NOTE TO PHYSICIAN: Persons having temporary irritation may respond to treatment with antihistamines or steroid creams and/or systemic steroids.	

For additional precautionary, handling, and use statements, see inside of this booklet.

Manufactured for: **Makhteshim Agan of North America, Inc.**
3120 Highwoods Blvd, Suite 100 • Raleigh, NC 27604

EPA 030211/Notif 032411/Rev E

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**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
WARNING-AVISO**

Causes eye irritation. May cause skin irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Do not get into eyes. Avoid prolonged contact with skin. Avoid breathing spray mist. Do not take internally.

Note to user: This product may produce temporary allergic side effects characterized by redness of the eyes, mild bronchial irritation, and redness or rash on exposed skin areas. Persons having allergic reactions should contact a physician.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical resistance category selection chart.

For WPS or non-WPS applications made in enclosed areas such as greenhouses, applicators and other handlers must wear dust mist filtering respirator (MSHA/NIOSH approval prefix TC-21C) or a NIOSH-approved respirator with any N, P, R, or HE filter.

WPS Uses (commercial production on farms, forests, nurseries, sodfarms, and in greenhouses):

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as nitrile rubber, natural rubber, or butyl rubber
- Shoes plus socks
- Protective eyewear

Non-WPS Uses (such as applications to nonresidential turf, golf courses, etc.):

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as nitrile rubber, natural rubber, or butyl rubber
- Shoes plus socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.

Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENT

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR Part 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates and wildlife. 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 neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

This chemical is known to leach through soil into groundwater under certain conditions as a result of labeled use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This chemical can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface waters for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow groundwater, areas within field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves such as nitrile rubber, natural rubber, or butyl rubber
- Shoes plus socks
- Protective eyewear

Special Eye Irritation Provisions: This product is a severe eye irritant. Although the restricted-entry interval expires after 12 hours, for the next 6.5 days, entry is permitted only when the following safety measures are provided:

- (1) At least one container designed specifically for flushing eyes must be available in operating condition at the WPS-required decontamination site intended for workers entering the treated area.
- (2) Workers must be informed in a manner they can understand:
 - that residues in the treated area may be highly irritating to their eyes,
 - that they should take precautions, such as refraining from rubbing their eyes, to keep residues out of their eyes,
 - that if they do get residues in their eyes, they should immediately flush their eyes using the eyeflush container that is located at the decontamination site or using other readily available clean water, and
 - how to operate the eyeflush container.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides, 40 CFR Part 170.

The WPS applies when the product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow others to enter the treated area until sprays have dried.

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 this label.

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

The required amount of Quali-Pro Chlorothalonil 500 ZN should be added slowly into the spray tank during filling. With concentrate sprays, premix the required amount of Quali-Pro Chlorothalonil 500 ZN 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 this label indicate pints of Quali-Pro Chlorothalonil 500 ZN per acre unless specified otherwise. Under conditions favoring disease development, the high rate specified and shortest application interval should be used.

When an adjuvant is to be used with this product, Makhteshim Agan of North America, Inc. suggests the use of a Chemical Producers and Distributors Association certified adjuvant.

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.

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determines the potential for spray drift. The applicator and grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses, or to applications using dry formulations.

1. The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. Excluding helicopters, nozzles must always point backward parallel with the airstream and never be pointed downward more than 45 degrees.

Where states have more stringent regulations, they should be observed. The applicator should be familiar with and take into account the information covered in the [Aerial Drift Reduction Advisory Information](#).

[Aerial Drift Reduction Advisory Information](#):

INFORMATION ON DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly or under unfavorable conditions (see [Wind, Temperature](#)).

CONTROLLING DROPLET SIZE—General Techniques

- **Volume**-Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure**-Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

CONTROLLING DROPLET SIZE—Aircraft

- **Number of nozzles**-Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle orientation**-Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- **Nozzle type**-Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift potential.

BOOM HEIGHT

Setting the boom at the lowest labeled height (if specified) which provides uniform coverage reduces the exposure of droplets to evapora-

tion and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

BOOM LENGTH

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

APPLICATION HEIGHT

Application should not be made at a height greater than 10 ft. above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

SWATH ADJUSTMENT

When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the upwind and downwind edges of the field, the application must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller drops, etc.).

WIND

Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. **NOTE:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

TEMPERATURE INVERSIONS

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SENSITIVE AREAS

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, nontarget crops) is minimal (e.g., when wind is blowing away from the sensitive

areas).

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS

Air assisted field crop sprayers carry droplets to the target via a downward directed airstream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring. **NOTE:** Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration.

AIR ASSISTED (AIR BLAST) TREE AND VINE SPRAYERS

Air assisted tree and vine sprayers carry droplets into the canopy of trees and vines via a radially or laterally directed airstream. In addition to the general drift management principles already described, the following specific practices will further reduce the potential for drift:

- Adjust deflectors and aiming devices so that spray is only directed into the canopy.
- Block off upward pointed nozzles when there is no overhanging canopy
- Use only enough air volume to penetrate the canopy and provide good coverage.
- Do not allow spray to go beyond the edge of the cultivated area. Spray the outside row only from outside the planting.

CHEMIGATION

Apply this product only through center pivot, motorized lateral move, traveling gun, solid set, and portable (wheel move, side roll, end tow, or hand move) irrigation system(s). Do not apply this product through any other type of irrigation system. Use only on crops specifically designated in the **DIRECTIONS FOR USE**.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers, or other experts.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Specific Instructions for Public Water Systems:

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must

contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Always inject Quali-Pro Chlorothalonil 500 ZN into irrigation water after it discharges from the irrigation pump and after it passes through the check valve. Never inject pesticides on the intake line on the suction side of the pump.
8. Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur.
9. Do not apply when wind speed favors drift beyond the area intended for treatment.

Specific Instructions for Sprinkler Irrigation Systems:

Quali-Pro Chlorothalonil 500 ZN may be used through two basic types of sprinkler irrigation systems as outlined in Sections A and B. Determine which type of system is in place, then refer to the appropriate directions provided for each type.

A. Center Pivot, Motorized Lateral Move, and Traveling Gun Irrigation Equipment

For injection of pesticides, these continuously moving systems must use a positive displacement injection pump, of either diaphragm or piston type, constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock and capable of injection at pressures approximately two to three times those encountered within the irrigation water line. Venturi application units cannot be used on these systems.

Fill chemical supply tank of injection equipment with water. Operate system for one complete revolution or run across the field, measuring time required, amount of water injected, and acreage covered. Thoroughly mix recommended amount of Quali-Pro Chlorothalonil 500 ZN for acreage to be covered into same amount of water used during calibration and inject into system continuously for one revolution or run. Mixture in the chemical supply tank must be continuously

agitated during the injection run. Shut off injection equipment after one revolution or run, but continue to operate irrigation system until Quali-Pro Chlorothalonil 500 ZN has been cleared from last sprinkler head.

B. Solid Set and Portable (Wheel Move, Side Roll, End Tow, or Hand Move) Irrigation Equipment

With stationary systems, an effectively designed in-line venturi applicator unit is preferred which is constructed of materials that are compatible with pesticides; however, a positive-displacement pump can also be used.

Determine acreage covered by sprinkler. Fill tank of injection equipment with water and adjust flow to use contents over a 30- to 45-minute period. Mix desired amount of Quali-Pro Chlorothalonil 500 ZN for acreage to be covered with water so that the total mixture of Quali-Pro Chlorothalonil 500 ZN plus water in the injection tank is equal to the quantity of water used during calibration and operate entire system at normal pressures recommended by the manufacturer of injection equipment used for amount of time established during calibration. No agitation should be required. Quali-Pro Chlorothalonil 500 ZN can be injected at the beginning or end of the irrigation cycle or as a separate application. Stop injection equipment after treatment is completed and continue to operate irrigation system until Quali-Pro Chlorothalonil 500 ZN has been cleared from last sprinkler head.

Do not use on greenhouse-grown crops.

TREE CROPS-APPLICATION INSTRUCTIONS

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. When concentrate sprays are used or when treating 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:

CROP	SPRAY VOLUME (Gallons per Acre)	
	Dilute	Concentrate
Conifers:		
Forest Stands	Not used	10 to 20 (aircraft)
Christmas Trees	100	10 to 50 (aircraft or ground equipment)
Nursery Beds	100	5 to 10 (ground equipment only)

CROP	DISEASES CONTROLLED	QUALI-PRO CHLOROTHALONIL 500 ZN RATE PINTS/ACRE	SEASONAL LIMIT PINTS/ACRE	APPLICATION DIRECTIONS
CONIFERS Pines, Spruces	See Below	See Below	31.6	The minimum re-treatment interval for established trees is 21 days. The minimum re-treatment in nursery beds is 7 days. Single-application technique: In Christmas tree plantations or forest stands, make one application in the spring when new shoot growth is 1/2 to 2 inches in length. Make the first application in spring when new shoot growth is 1/2 to 2 inches in length. Make additional applications at 4-week intervals until conditions no longer favor disease development. For use in nursery beds, apply the highest rate specified on a 4-week schedule.
	Swiss Needlecast	4.0-8.0		
	Scleroderris Canker (Pines), Swiss Needlecast	2.25-4.0		
	Sirococcus Tip Blight	2.75-5.0		
	Rhizosphaera Needlecast (Spruces), Scirrhia Brown Spot (Pines)	8.0		
Cyclaneusma and Lophodermium Needlecast (Pines)	4.0-8.0		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.	

CROP	DISEASES CONTROLLED	QUALI-PRO CHLOROTHALONIL 500 ZN RATE PINTS/ACRE	SEASONAL LIMIT PINTS/ACRE	APPLICATION DIRECTIONS
CONIFERS Pines, Spruces (cont.)	Rhabdocline Needlecast (Douglas fir)	2.25-4.0	31.6	Apply at budbreak and repeat at 3- to 4-week intervals until needles are fully elongated and conditions no longer favor disease development. In plantations of mixed provenance, or when irregular budbreak occurs, apply weekly until all trees have broken bud, then every 3 to 4 weeks as specified above. In nursery beds, use the high rate on a 3-week schedule. Begin applications in nursery beds when seedlings are 4 inches tall and when cool, moist conditions favor disease development. Make additional applications at 7- to 14-day intervals as long as disease favorable conditions persist. Begin applications when 10% of buds have broken and twice thereafter at 7- to 10-day intervals.
	Botrytis Seedling Blight Phoma Twig Blight	2.25-4.0		
	Autoecious Needle Rust (Weir's Cushion)(Spruces)	8.0		

GRASSES: GOLF COURSE FAIRWAYS

For low disease pressure, follow the re-treatment intervals and the application rates provided below.

For an extreme disease condition, a single maximum application of 21.6 pints per acre with a minimum re-treatment interval of 7 days can be made each year. After making the 21.6 pints per acre application, the low disease regime must be followed for the remainder of the year. For Quali-Pro Chlorothalonil 500 ZN, no more than 49.8 pints per acre may be applied per year on fairways. For reentry into treated areas, refer to the **NON-AGRICULTURAL USE REQUIREMENTS** box.

DISEASES CONTROLLED	LOW DISEASE PRESSURE TREATMENT REGIME		EXTREME DISEASE CONDITION		Maximum Application Rate Per Year for Fairways (Pints/Acre)
	Re-treatment Interval (Days)	Application Rate (Pints/Acre)	Maximum Single Application Allowed in a Year (Pints/Acre)	Minimum Re-treatment Interval for the Maximum Single Application (Days)	
Dollar Spot	7-10	3.88 ^a -7.2	21.6	7	49.8
	14 - 21	7.2-13.9			
Leaf Spot, Melting Out, Brown Blight	7-10	7.2	21.6	7	49.8
	14 - 21	7.2-13.9			
Brown Patch	7-14	7.2-13.9	21.6	7	49.8
Gray Leaf Spot	7-10	7.2-13.9			
Red Thread	7-10	7.2-13.9	21.6	7	49.8
Anthracnose	7-14	11.6-13.9			

^aLow rate is not effective on intensively mowed grasses.

Diseases are caused by some of the following fungi:

Dollar Spot: *Sclerotinia homeocarpa*, *Lanzia* or *Moellerodiscus* spp.

Leaf Spot, Melting Out and Brown Blight: *Drechslera* spp., *Bipolaris* spp., *Curvularia* spp.

Brown Patch: *Rhizoctonia* spp.

Anthracnose: *Collectotrichum*

GRASSES: GOLF COURSE TEES, GREENS, AND ORNAMENTAL TURF USES

Do not use on home lawns and turf sites associated with apartment buildings, daycare centers, playgrounds, playfields, recreational park athletic fields located on or next to schools (i.e., elementary, middle, and high schools), campgrounds, churches, and theme parks.

For low disease pressure, follow the re-treatment intervals and the application rates provided below. For an extreme disease condition, a single maximum application of 21.6 pints per acre with a minimum re-treatment interval of 7 days can be made. For Quali-Pro Chlorothalonil 500 ZN, maximum yearly application limits exist for fairways, greens, and other nonresidential ornamental turf. For reentry into treated areas, refer to the **NON-AGRICULTURAL USE REQUIREMENTS** box.

DISEASES CONTROLLED	RE-TREATMENT INTERVAL (DAYS)	APPLICATION RATE (fl. oz./1000 SQ FT)		Maximum Application Rate per Year for Ornamental Turf, Tees, and Greens (fl. oz. per 1000 sq. ft.)
		Low disease pressure regime	High disease pressure regime Single Maximum application (fl. oz.) and Re-treatment Interval (days)	
Dollar Spot	7-14	3.0 - 5	7.9 (14)	18.2 fl. oz. per 1000 sq. ft (ornamental turf)
Brown Patch	7-14	3.0 - 5	7.9 (14)	
Leaf Spot, Melting Out	7-10	3.0 - 5	7.9 (14)	
Gray Leaf Spot	7-10	3.0 - 5	7.9 (14)	36.5 fl. oz. per 1000 sq ft (tees)
Red Thread	7-10	3.0 - 5	7.9 (14)	51.4 fl. oz. per 1000 sq ft (greens)
Anthraxnose	7-14	3.0 - 5	7.9 (14)	
Copper Spot	7-10	3.0 - 5	7.9 (14)	
Stem Rust (Bluegrass)	7-14	3.0 - 5	7.9 (14)	
DICHONDRA: Leaf Spot (CALIFORNIA ONLY)	7-14	3.0 - 5	7.9 (14)	

Diseases listed are caused by fungi, some of which are named as follows:

1. Dollar Spot: *Sclerotinia homeocarpa*; *Lanzia* or *Moellerodiscus* spp.
2. Brown Patch: *Rhizoctonia solani*, *R. zeae*, *R. cerealis*.
3. Leaf Spots; Melting Out; Brown Blight; *Drechslera* spp. (including *D. poae*, *D. siccans*, *Bipolaris sorokiniana*, *Curvularia* spp.)
4. Gray Leaf Spot: *Pyricularia grisea*, *P. oryzae*
5. Red Thread: *Laetisaria fuciformis*
6. Anthracnose: *Colletotrichum graminicola*
7. Copper Spot: *Gloeocercospora sorghi*
8. Stem Rust: *Puccinia graminis*
9. Dichondra Leaf Spot: *Alternaria* spp.

Gray Snow Mold caused by Typhula spp.: Apply in sufficient water to obtain adequate spray coverage (2.9-14.4 gallons per 1000 sq ft). Apply a single application of 7.9 fl. oz. of Quali-Pro Chlorothalonil 500 ZN per 1000 sq ft of turf area. Application must be made before snow cover in autumn. If snow cover is intermittent or lacking during the winter, reapply at 7.9 fl. oz. per 1000 sq ft at monthly intervals until gray snow mold conditions no longer prevail. In areas where pink snow mold (Gerlachia or Fusarium patch) is likely to occur, apply Quali-Pro Chlorothalonil 500 ZN at 7.9 fl. oz. in combination with products containing iprodione at 2 oz. active ingredient per 1000 sq. ft. of turf area. Read and observe all label directions for products con-

taining this active ingredient. The maximum seasonal limit of 18.2 oz. per 1000 sq ft may be applied to ornamental turf, no more than 36.5 oz. per 1000 sq. ft. may be applied to tees, and a maximum seasonal amount of 51.4 oz. per 1000 sq ft of Quali-Pro Chlorothalonil 500 ZN may be applied to greens.

Fusarium (Gerlachia) Patch: For control of Fusarium patch only in areas where snow cover is intermittent or lacking during the winter, apply 7.9 fl. oz. of Quali-Pro Chlorothalonil 500 ZN per 1000 sq. ft. Begin applications in autumn and reapply at 21- to 28-day intervals until conditions favoring Fusarium patch no longer prevail. A maximum seasonal limit of 18.2 oz. per 1000 sq. ft. may be applied to ornamental turf, no more than 36.5 oz. per 1000 sq ft may be applied to tees, and a maximum seasonal amount of 51.4 oz. per 1000 sq ft. of Quali-Pro Chlorothalonil 500 ZN may be applied to greens.

Algae: For prevention of algae on turfgrasses, apply Quali-Pro Chlorothalonil 500 ZN at the rate of 3 to 7.9 fl. oz. per 1000 sq. ft. on a 7- to 14-day schedule. When algae is well established, every attempt should be made to dry out the afflicted area. Once dry, spiking or verticutting should be done to enhance turfgrass recovery in conjunction with Quali-Pro Chlorothalonil 500 ZN applications. Several applications may be necessary for turfgrass recovery. Only a preventative spray program with Quali-Pro Chlorothalonil 500 ZN will prevent a recurrence of the algae when environmental conditions are favorable for algal growth. A maximum seasonal limit of 18.2 oz. per

1000 sq. ft. may be applied to ornamental turf, no more than 36.5 oz. per 1000 sq. ft. may be applied to tees, and a maximum seasonal amount of 51.4 oz. per 1000 sq. ft. of Quali-Pro Chlorothalonil 500 ZN may be applied to greens.

GRASS: SODFARMS

Do not use on home lawns and turf sites associated with apartment buildings, daycare centers, playgrounds, playfields, recreational park athletic fields located on or next to schools (i.e., elementary, middle, and high schools), campgrounds, churches, and theme parks.

Apply Quali-Pro Chlorothalonil 500 ZN in 30 to 40 gallons of water per acre. Begin applications when conditions favor disease development and repeat applications as long as these conditions persist

using the rates recommended in the following table.

Under severe disease conditions, a single application of 21.6 pints per acre may be made with a 7-day re-treatment interval. Subsequent applications must follow the rates and re-treatment intervals outlined in the following table for the remainder of the year.

Do not mow or water after treatment until spray deposited on grass is thoroughly dry. Quali-Pro Chlorothalonil 500 ZN should always be used in conjunction with good turf management practices.

Sodfarm turf treated with chlorothalonil prior to harvest must be mechanically cut, rolled, and harvested. Follow all provisions outlined in the **AGRICULTURAL USE REQUIREMENTS** box.

DISEASES CONTROLLED	LOW DISEASE PRESSURE TREATMENT REGIME		EXTREME DISEASE CONDITION		Application Limit Per Year for Sodfarms (Pints/Acre)*
	Re-treatment Interval (Days)	Application Rate (Pints/Acre)	Maximum Single Application Allowed in a Year (Pints/Acre)	Minimum Re-treatment Interval for the Maximum Single Application (Days)	
Dollar Spot	7-10	3.88 ^a -7.2	21.6	7	25.0
	14 - 21	7.2-13.9			
Leaf Spot, Melting Out, Brown Blight	7-10	7.2	21.6	7	25.0
	14 - 21	7.2-13.9			
Brown Patch	7-14	7.2-13.9	21.6	7	25.0
Gray Leaf Spot	7-10	7.2-13.9			
Red Thread	7-10	7.2-13.9	21.6	7	25.0
Anthracnose	7-14	11.6-13.9			

^aLow rate is not effective on intensively mowed grasses.

Diseases are caused by some of the following fungi:

Dollar Spot: *Sclerotinia homeocarpa*, *Lanzia* or *Moellerodiscus* spp.

Leaf Spot, Melting Out and Brown Blight: *Drechslera* spp., *Bipolaris* spp., *Curvularia* spp.

Brown Patch: *Rhizoctonia* spp.

Anthracnose: *Collectotrichum*

*Do not use for sodfarms at application rates greater than 13 pounds a.i. (25 pints of Quali-Pro Chlorothalonil 500 ZN) per acre per year.

ORNAMENTAL PLANTS

Quali-Pro Chlorothalonil 500 ZN may be used on ornamental plants grown in the field, nurseries, or greenhouses, and for spot treatment of ornamental plants growing in landscapes. Due to the large number of species and varieties of ornamental and nursery plants and the widely varying growing conditions, it is impossible to test every variety for sensitivity to Quali-Pro Chlorothalonil 500 ZN. Prior to commercial use, apply the recommended rates to a small area of plants in question (i.e., bedding plants, foliage, etc.) and observe for 7 to 10 days prior to treatment of a commercial crop.

Field-grown ornamentals: No more than 69.1 pints per acre of Quali-Pro Chlorothalonil 500 ZN may be applied to field-grown ornamentals per year.

For aerial application to field-planted ornamentals, a minimum rate of 10 gallons of spray per acre should be used during application. Quali-Pro Chlorothalonil 500 ZN should be applied to plants when both foliage and flowers are dry or nearly dry. For field-grown roses, apply 2 pints of Quali-Pro Chlorothalonil 500 ZN per acre for a single application. For field-planted pachysandra, apply 5.9 pints of Quali-Pro Chlorothalonil 500 ZN per acre for a single application.

Ornamentals grown in nurseries, greenhouses: Do not use mist-blowers or high pressure spray equipment when making applications of Quali-Pro Chlorothalonil 500 ZN in greenhouses. Apply Quali-Pro Chlorothalonil 500 ZN at the rate of 1.9 pints per 100 gallons of water unless other directions are given in the tables below. Apply in a spray until foliage runoff occurs when conditions are favorable for disease development. Repeat applications at 7- to 14-day intervals until conditions are no longer favorable. During periods when conditions favor severe disease incidence, generally cloudy or wet weather, apply

Quali-Pro Chlorothalonil 500 ZN at 7-day intervals. Quali-Pro Chlorothalonil 500 ZN should be applied to plants when both foliage and flowers are dry or nearly dry.

Do not combine Quali-Pro Chlorothalonil 500 ZN in the 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.

Spot treatment of ornamental plants growing in landscapes:

Apply Quali-Pro Chlorothalonil 500 ZN at the rate of 1.9 teaspoons per 2 gallons of water. Apply in a spray until foliage runoff occurs when conditions are favorable for disease development. Repeat applications at 7- to 14-day intervals until conditions are no longer favorable. During periods when conditions favor severe disease incidence, generally cloudy or wet weather, apply Quali-Pro Chlorothalonil 500 ZN at 7-day intervals. Quali-Pro Chlorothalonil 500 ZN should be applied to plants when both foliage and flowers are dry or nearly dry.

Use of Quali-Pro Chlorothalonil 500 ZN is recommended for control of fungal diseases referred to by numbers in parentheses following each ornamental. Ornamentals listed on this label have been tested and found to tolerate applications of Quali-Pro Chlorothalonil 500 ZN at the recommended rates. The user should test for possible phytotoxic responses using recommended rates on ornamental plants on a small area prior to commercial treatments and observe for 7 to 10 days for symptoms of phytotoxicity. Applications made during bloom may damage flowers and/or fruits. **NOTE:** Fruits and other treated foliage must not be eaten or fed to livestock.

Diseases Controlled by Quali-Pro Chlorothalonil 500 ZN:

1. Leaf Spots/Foliar Blights:

- Actinopelte Leaf Spot
- Alternaria Leaf Spot/Leaf Blight
- Anthracoze Leaf Blotch/Spot
- Anthracoze (Discula) Blight
- Ascochyta Blight
- Bipolaris (Helminthosporium) Leaf Spot
- Botrytis Leaf Spot/Leaf Blight
- Cephalosporium Leaf Spot
- Cercospora Leaf Spot
- Cercosporidium Leaf Spot
- Coryneum Blight (shothole)
- Corynespora Leaf Spot
- Curvularia Leaf Spot
- Cylindrosporium Leaf Spot
- Dactylaria Leaf Spot
- Didymellina Leaf Spot
- Drechslera Leaf Spot
- Fabraea (Entomosporium) Leaf Spot
- Fusarium Leaf Spot
- Gloeosporium Black Leaf Spot
- Ink spot (Drechslera)
- Marssonina Leaf Spot
- Monilinia Blossom Blight, Twig Blight
- Mycosphaerella Ray Blight

- Mycothecium Leaf Spot, Brown Rot
- Nematostoma Leaf Blight
- Phyllosticta Leaf Spot
- Rhizoctonia Web Blight
- Ramularia Leaf Spot
- Septoria Leaf Spot
- Sphaeropsis Leaf Spot
- Stagonospora Leaf Scorch
- Tan Leaf Spot (Curvularia)
- Volutella Leaf Blight

2. Flower Spots/Blights:

- Botrytis Flower Spot/Flower Blight
- Curvularia Flower Spot
- Monilinia Blossom Blight
- Ovinia Flower Blight
- Rhizopus Blossom Blight
- Sclerotinia Flower Blight

3. Cylindrocladium Stem Canker

4. Phytophthora Leaf Blight/Dieback

5. Powdery Mildews:

- Erysiphe cichoracearum
- Microsphaera spp.

6. Rusts:

- Gymnosporangium spp.
- Puccinia spp.
- Pucciniastrum hydrangeae

7. Taphrina Blister

8. Scab:

- Venturia inaequalis

Ornamentals recommended for treatment with Quali-Pro Chlorothalonil 500 ZN:

Avoid applications during bloom periods for those plants where flower injury is unacceptable. For poinsettia, discontinue applications prior to bract formation; phytotoxicity is possible on bracts. For roses, use 1.6 pints per 100 gallons of water.

PLANT	DISEASES	COMMENTS
Aglaonema	1	
Andromeda (Pieris)	4	
Arabian Violet	2	
Areca Palm	1	
Artemesia	1	
Ash, Fraxinus	1	
Aspen	1	
Azalea	1,2,4	
Begonia	1	
Boston Fern	1	
Buckeye, Horsechestnut	1	
Camellia	2	
Carnation	1,2	

PLANT	DISEASES	COMMENTS	PLANT	DISEASES	COMMENTS
Cherry-laurel	1		Prayer Plant (Maranta)	1	
Chrysanthemum	1,2		Privet, Ligustrum	1	
Crabapple	1,6,8		Rhododendron	1,2,4	
Crocus	1		Rose	1	Use 1.6 pints per 100 gallons of water for greenhouse-grown plants.
Daffodil	1				
Daisy	1				
Daylily	6		Sand Cherry	1,2	
Dogwood	1		Sequoia	1	
Dumbcane, Dieffenbachia	1		Spiraea	1	
Dracaena	1		Statice	1	
Eucalyptus	3		Sycamore, Planetree	1	
Euonymus	1		Syngonium	1	
Fatsia (Aralia)	1		Tulip	1	
Ficus	1		Viburnum	5	
Firethorn, Pyracantha	1		Walnut, Juglans	1	
Florida Ruffe Fern	1		Zebra Plant (Aphelandra)	1	
Flowering Almond	1,2		Zinnia	1,5	
Flowering Cherry	1,2				
Flowering Peach	1,2				
Flowering Plum	1,2				
Flowering Quince	1,2				
Geranium	1,6				
Gladiolus	1,2				
Hawthorn	1,6				
Holly	1				
Hollyhock	6				
Hydrangea (Foliage Only)	1,6				
Iris	1,2				
Leatherleaf Fern	1				
Lilac	5				
Lily	1				
Lipstick Plant	1				
Magnolia	1				
Maple	1				
Marigold	1				
Ming aralia	1				
Mountain Laurel	1				
Narcissus	1				
Oak (Red Group Only)	1,7				
Oregon Grape (Mahonia)	6				
Oyster Plant (Rhoeoe)	1				
Pachysandra	1	Use 4.3 pints of Quali-Pro Chlorothalonil 500 ZN per 100 gallons of water for greenhouse-grown plants			
Pansy	1				
Parlor Palm (Chamaedorea)	1				
Peperomia	1				
Petunia	1,4				
Philodendron	1,4				
Phlox	1				
Photinia	1				
Poinsettia	1	Discontinue applications prior to bract formation; phytotoxicity is possible			
Poplar	1				

The following ornamental plant species which have been tested with Quali-Pro Chlorothalonil 500 ZN at recommended rates (1.9 teaspoons per 2 gallons of water, 7 to 14 days re-treatment interval) did not exhibit phytotoxicity:

Botanical name	Common name
<i>Aechmea fasciata</i>	Aechmea
<i>Araucaria heterophylla</i>	Norfolk Island Pine
<i>Asplenium nidus</i>	Birdnest Fern
<i>Bougainvillea</i> spp.	Bougainvillea
<i>Caladium</i> spp.	Caladium
<i>Calathea makoyana</i>	Peacock Plant
<i>Calistephus chinensis</i>	Aster
<i>Carissa grandiflora</i>	Natal Plum
<i>Clerodendron thomsonae</i>	Bleeding Heart
<i>Codiaeum</i> spp.	Croton
<i>Cordylone terminalis</i>	Ti Plant
<i>Crassula argentea</i>	Jade Plant
<i>Cyrtanthium falcatum</i>	Holly Leaf Fern
<i>Dionaea muscipula</i>	Venus Fly Trap
<i>Dizygotheca elegantissima</i>	False Aralia
<i>Epipremnum aureum</i>	Golden Pothos, Scindapsus
	Flame Violet
<i>Episcia cupreata</i>	Silver-Nerve Plant
<i>Fittonia</i> spp.	Gerbera Daisy
<i>Gerbera jamesonii</i>	Purple Passion Vine
<i>Gynura sarmentosa</i>	Baby's Breath
<i>Gypsophila paniculata</i>	Wax Plant
<i>Hoya</i> spp.	Chinese Holly
<i>Ilex cornuta</i>	Japanese Holly
<i>Ilex crenata</i>	Impatiens
<i>Impatiens</i> spp.	Aluminum plant
<i>Pilea cadierei</i>	Staghorn Fern
<i>Platyterium</i> spp.	Birdsnest Sansevieria
<i>Sansevieria trifasciata</i> "Hahnii"	Piggy-Back Plant
<i>Tolmeia menziesii</i>	Spineless Yucca
<i>Yucca elephantipes</i>	Christmas Cactus
<i>Zygocactus truncatus</i>	

Note: Do not apply Quali-Pro Chlorothalonil 500 ZN to either green or variegated Pittosporum or to Schefflera, as multiple applications have been demonstrated to cause phytotoxic responses.

STORAGE AND DISPOSAL

Do not contaminate water, foodstuffs, feed, or seed by storage or disposal.

PESTICIDE STORAGE: Store in a cool place. Protect from excessive heat. Store product in original container only away from water, food, or feed. Keep container closed to prevent spills and contamination. Carefully open containers. After partial use, replace lid and close tightly. Do not put concentrate or diluted product into food or drink containers.

PESTICIDE DISPOSAL: Do not contaminate water, food, or feed by disposal. Improper disposal of excess pesticide, pesticide spray, or rinsate is a violation of Federal law. Wastes resulting from the use of this product that cannot be used according to the label instructions or chemically reprocessed may be disposed of on site or at a landfill or waste disposal facility approved for pesticide disposal, or in accordance with all applicable Federal, state, or local regulations. For further guidance, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL:

Nonrefillable Container (five gallons or less): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Nonrefillable Container (greater than five gallons): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Refillable Container: (greater than 55 gallons) Refillable container. Refill this container with chlorothalonil only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. For final disposal, offer for recycling or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

LIMITATIONS OF WARRANTY AND LIABILITY

Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following **CONDITIONS, DISCLAIMER OF WARRANTIES, and LIMITATIONS OF LIABILITY.**

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Makhteshim Agan of North America, Inc. All such risks shall be assumed by the user or buyer.

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