

2010-2023
2011-11-23

Container label

GROUP	3	FUNGICIDE
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QUALI-PRO® PROPICONAZOLE 14.3 ME

COMMERCIAL

EMULSIFIABLE CONCENTRATE

TURF FUNGICIDE

For control of certain diseases in golf course turf

GUARANTEE:

Propiconazole 154.5 g/L (14.3%)

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

REGISTRATION NO. 28797
PEST CONTROL PRODUCTS ACT

CAUTION



POISON

CAUTION – SKIN IRRITANT
POTENTIAL SKIN SENSITIZER

NET CONTENTS: 1 – 1000 Litres

Makhteshim Agan of North America Inc.
4515 Falls of Neuse Road, Suite 300
Raleigh, NC 27609
919-256-9300

PRECAUTIONS

- KEEP OUT OF REACH OF CHILDREN.
- KEEP PEOPLE OFF TREATED AREA UNTIL FOLIAGE IS DRY.
- Avoid breathing mist or vapours.
- May irritate the skin. Avoid contact with skin.
- Potential skin sensitizer.
- Harmful if swallowed, inhaled or absorbed through the skin.
- Wear chemical resistant coveralls over long sleeved shirt, long pants and chemical resistant (neoprene) gloves during mixing, loading, application, clean up and repair. Do not use leather or cloth gloves. Rinse gloves with soap and water before removal and wash hands.
- Do not eat, drink or smoke during application; wash hands and face thoroughly immediately following each application of this product.
- Immediately wash off accidental splashes of the concentrate or spray mixture from skin, clothing and eyes.
- After work, change clothing and wash entire body thoroughly.
- Wash contaminated clothes separately from other laundry before reuse.
- Do not contaminate food or feed.
- Do not graze livestock on treated areas.
- Do not feed clippings from treated areas to livestock or poultry.
- This pesticide is toxic to fish and other aquatic organisms. Do not spray any body of water by direct application, drift or by cleaning and rinsing spray equipment.
- Do not use or store near heat or open flame.

DO NOT APPLY BY AIR.

FIRST AID

IF SWALLOWED: Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN/CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

IF IN EYES: 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 centre or doctor for treatment advice.

IF INHALED: 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 centre or doctor for further treatment advice.

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

TOXICOLOGICAL INFORMATION

Note to Physician: If ingested, induce emesis or lavage stomach. There is no specific antidote for this product. Treat symptomatically.

ENVIRONMENTAL HAZARDS

Toxic to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

Toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application sites such as hedgerows and woodland.

STORAGE

- Do not use or store near heat or open flame.
- Keep from freezing.
- Store in original container in a secured, dry storage area.
- Store the tightly closed container away from seeds, fertilizers, plants and foodstuffs.
- Prevent cross contamination with other pesticides.

DISPOSAL

For recyclable containers: Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean up of spills.

For refillable containers: For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not use this container for any other purpose.

**IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING
CALL COLLECT
1-919-256-9300**

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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DIRECTIONS FOR USE

GENERAL INFORMATION

QUALI-PRO® PROPICONAZOLE 14.3 ME is a broad spectrum systemic fungicide for use on turfgrasses for the control of dollar spot (*Sclerotinia homoeocarpa*), brown patch (*Rhizoctonia solani*), anthracnose (*Colletotrichum graminicola*), red thread (*Laetisaria fuciformis*), summer patch (*Magnaporthe poae*), leafspot and melting out (*Bipolaris* spp., *Drechslera* spp., *Helminthosporium* spp.), pink snow mold (*Microdochium nivale*), Fusarium patch (*Microdochium nivale*), gray snow mold (*Typhula* spp.), and yellow patch (*Rhizoctonia cerealis*).

Do not apply this product through any type of irrigation system.

As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

DO NOT apply by air.

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. Boom height must be 60 cm or less above the crop or ground.

Buffer zones:

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop	Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial habitat
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Turf	10	1	4	2	4

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

Mixing Instructions

QUALI-PRO® PROPICONAZOLE 14.3 ME Only

Fill the spray tank 1/2-3/4 full with water. Add the proper amount of QUALI-PRO® PROPICONAZOLE 14.3 ME and then add the rest of the water. Provide sufficient agitation during mixing and application to maintain a uniform emulsion.

Tank Mixtures – Pesticides

QUALI-PRO® PROPICONAZOLE 14.3 ME can be tank mixed with ONLY ONE of the following partners: DACONIL® 2787 Flowable Fungicide or HERITAGE® Fungicide or Primo MAXX® Turf Growth Regulator. Read the label of DACONIL 2787 Flowable Fungicide or HERITAGE Fungicide or Primo MAXX Turf Growth Regulator and follow the precautionary statement, directions for use (rates, diseases controlled and application intervals) and other restrictions.

- Always check the compatibility of a QUALI-PRO® PROPICONAZOLE 14.3 ME tank mix using a jar test with proportionate amounts of QUALI-PRO® PROPICONAZOLE 14.3 ME or DACONIL 2787 Flowable Fungicide or HERITAGE Fungicide or Primo MAXX Turf Growth Regulator, and the water, before mixing in the spray tank.
- Provide sufficient jet or mechanical agitation during filling and application to keep the tank mix uniformly suspended.
- Fill tank at least 1/2 full of clean water.
- If using HERITAGE Fungicide as a tank mix partner add HERITAGE Fungicide first then add QUALI-PRO® PROPICONAZOLE 14.3 ME next.
- If using DACONIL 2787 Flowable Fungicide or Primo MAXX Turf Growth Regulator as the tank mix partner, add QUALI-PRO® PROPICONAZOLE 14.3 ME first then DACONIL 2787 Flowable Fungicide or Primo MAXX Turf Growth Regulator next.
- Do not leave tank mix combinations in the spray tank for prolonged periods without agitation. Mix and apply them the same day.

TURFGRASS DISEASE CONTROL

- USE QUALI-PRO® PROPICONAZOLE 14.3 ME IN A PREVENTATIVE DISEASE CONTROL PROGRAM.
- Apply in sufficient water to ensure thorough coverage (3 to 15L per 100 sq. metres).
- Apply after mowing OR allow sprayed area to completely dry before mowing.
- For control of foliar diseases, allow sprayed area to completely dry before irrigation.
- For control of soil-borne diseases, apply QUALI-PRO® PROPICONAZOLE 14.3 ME in higher spray volumes (13-21 litres of water per 100 sq. metres). If this is not possible, then QUALI-PRO® PROPICONAZOLE 14.3 ME can be watered in after application (0.60 cm of water prior to drying of the spray application).
- Under conditions optimum for high disease pressure, use the higher rate and the shorter interval.
- For optimum turf quality and disease control, use QUALI-PRO® PROPICONAZOLE 14.3 ME in conjunction with turf management practices that promote good plant health and optimum disease control.

- Evaluate spray additives prior to use. Label directions are based on data obtained with no additives.
- Before use of any fungicide, proper diagnosis of the organism causing the disease is important. Use of diagnostic kits or other means of identification of the disease organism is essential to determine the best control measures.
- When treating greens, always treat aprons and fairway approaches.
- Do not apply more than 473 mL/100m²/year.

NOTE: Do not graze animals on treated areas. Do not feed clippings from treated areas to livestock or poultry.

TURFGRASS – SPRAY SCHEDULE

Disease	Rate of QUALI-PRO® PROPICONAZOLE 14.3 ME (mL per 100 Sq. Metres)	Application Interval/ Duration of Control*	Instructions
Dollar Spot	26-51	21-28 days	Apply QUALI-PRO® PROPICONAZOLE 14.3 ME during periods of humid, warm days and cool nights that result in heavy dew formation. Nitrogen deficiency and drought stress also promote the disease. 1) QUALI-PRO® PROPICONAZOLE 14.3 ME can be tank-mixed (see mixing instructions) with DACONIL 2787 Flowable Fungicide or HERITAGE Fungicide. OR 2) Rotated with fungicides which have a different mode of action. Do not apply more than 6 applications per season.

Disease	Rate of QUALI-PRO® PROPICONAZOLE 14.3 ME (mL per 100 Sq. Metres)	Application Interval/ Duration of Control*	Instructions
Anthracnose	26-51	21 days	Apply when warm, humid weather conditions occur. Areas of compaction, poor soil drainage, excess thatch, or with large amounts of <i>Poa annua</i> favour the development of anthracnose. Do not apply more than 3 applications per season.
Red Thread	51	14 days	Apply when cool, wet conditions occur. Prolonged periods of high humidity air favour the development of the disease. Do not apply more than 3 applications per season.
Brown Patch	51-103	14 days	Apply QUALI-PRO® PROPICONAZOLE 14.3 ME preventively when conditions favour disease development (high surface moisture or humidity and warm night temperatures). Use the higher rate under severe disease pressure. Do not apply QUALI-PRO® PROPICONAZOLE 14.3 ME if disease symptoms are present. Do not apply more than 6 applications

Disease	Rate of QUALI-PRO® PROPICONAZOLE 14.3 ME (mL per 100 Sq. Metres)	Application Interval/ Duration of Control*	Instructions
			per season.
Leaf Spot & Melting Out	51-103	14 days	Under light to moderate disease pressure, apply QUALI-PRO® PROPICONAZOLE 14.3 ME to reduce the severity of leaf spot and melting out caused by <i>Drechslera</i> spp. (<i>Helminthosporium</i>) pathogens. Do not apply more than 3 applications per season.
Summer Patch	103	30 days	Apply QUALI-PRO® PROPICONAZOLE 14.3 ME on a preventative basis. The first application should be when the soil temperature is greater than 16°C at a 5 cm depth for 4 consecutive days with a second application 30 days later. A third application may be required if hot, humid weather occurs. Apply QUALI-PRO® PROPICONAZOLE 14.3 ME with 13-21 L of water per 100 sq. metres. Do not apply more than 3 applications per season.
Gray and Pink Snow Mold	206	Late Fall	Apply one application in the late fall before

Disease	Rate of QUALI-PRO® PROPICONAZOLE 14.3 ME (mL per 100 Sq. Metres)	Application Interval/ Duration of Control*	Instructions
			snow cover. Do not apply on top of snow or when the temperature is below 0°C. Do not apply more than 1 application per season.
Fusarium Patch	51-103	30 days	Apply QUALI-PRO® PROPICONAZOLE 14.3 ME in the fall or early spring during cool, wet weather. Use the high rate only under high disease pressure. Do not apply more than 2 applications per season.
Yellow patch	77-103		Apply one application in the late fall before snow cover. Do not apply on top of snow. Do not apply more than 1 application per season.

*Expected length of control when used in a preventative disease control program.

Resistance-Management Recommendations

For resistance management, please note that QUALI-PRO® PROPICONAZOLE 14.3 ME contains a Group 3 fungicide. Any fungal population may contain individuals naturally resistant to QUALI-PRO® PROPICONAZOLE 14.3 ME and other group 3 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance management strategies should be followed.

To delay fungicide resistance:

- Where possible, rotate the use of QUALI-PRO® PROPICONAZOLE 14.3 ME or other group 3 fungicides with different groups that control the same pathogens.
- Avoid application of more than the maximum number listed in the label and consecutive sprays of QUALI-PRO® PROPICONAZOLE 14.3 ME or other fungicides in the same group in a season.
- Use tank mixtures with fungicides from a different group when such use is permitted.
- Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other control practices.
- Monitor treated fungal populations for resistance development.
- If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, if available.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops or pathogens.
- For further information or to report suspected resistance, contact company representatives collect at 1-919-256-9300 or www.quali-pro.com.

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