



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

February 7, 2017

Leanna Bosarge, Director, Regulatory Affairs
Control Solutions Inc.
5903 Genoa Red Bluff
Pasadena, Texas 77507-1041

Subject: Notification per PRN 98-10: Adds patent number & optional marketing claims regarding the patent and formulation; Updates the FRAC code box
Product Name: Quali-Pro Enclave 5.3 F
EPA Registration Number: 53883-309
Application Date: January 23, 2017
Decision Number: 525505

Dear Ms. Bosarge:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped "Notification" and will be placed in our records. Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you have any questions, please contact Tony Kish by phone at 703 308-9443, or via email at kish.tony@epa.gov; or Craig Reeves by phone at 703 347-0486, or via email at reeves.craig@epa.gov.

Sincerely,

A handwritten signature in black ink that reads "Tony Kish".

Tony Kish, Product Manager 22 Fungicide Branch
Registration Division (7505P)
Office of Pesticide Programs

NOTIFICATION

53883-309

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

02/07/2017

GROUP 1 2 3 M FUNGICIDES

Group	1	2	3	M	Fungicides
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QUALI-PRO® ENCLAVE™ 5.3 F

(ALTERNATE BRAND NAME: ENCLAVE™)

(GENERIC DESCRIPTOR: [FOUR-WAY] FLOWABLE FUNGICIDE)

A broad-spectrum combination of contact and systemic fungicides with multi-site mode of action for control of snow mold, spring, summer and fall turf diseases of non-residential turf and ornamentals

ACTIVE INGREDIENT:	% BY WT.
Chlorothalonil (tetrachloroisophthalonitrile)	28.7%
Iprodione: 3-(3,5-dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1-imidazolidinecarboxamide)	9.4%
Thiophanate methyl: (dimethyl[(1,2-phenylene)-bis(iminocarbonothioyl)]bis[carbamate])	9.4%
Tebuconazole: alpha-[2-(4-chlorophenyl)ethyl]-alpha-(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol	2.8%
OTHER INGREDIENTS:	49.7%
TOTAL	100.0%

- Contains 3.0 pounds of chlorothalonil per gallon.
- Contains 1.0 pounds of iprodione per gallon.
- Contains 1.0 pounds of thiophanate methyl per gallon.
- Contains 0.3 pounds of tebuconazole per gallon.

U.S. Patent No.: 9,364,001

KEEP OUT OF REACH OF CHILDREN CAUTION

Manufactured for:
Control Solutions, Inc.
5903 Genoa-Red Bluff Road
Pasadena, TX 77507-1041

EPA Reg. No. 53883-309

EPA Est. No. [REDACTED]

NET CONTENTS: [REDACTED] GALS

FIRST AID	
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 person.
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 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.
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.
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact SafetyCall® at (866) 897-8050 for emergency medical treatment information.</p>	

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

Harmful if swallowed, absorbed through skin, or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water, after handling, and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are barrier laminate, butyl rubber (≥ 14 mils), neoprene rubber (≥ 14 mils) and polyethylene. If you want more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

Mixers, loaders, and applicators who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR Part 170) must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves Category A such as barrier laminate, butyl rubber, nitrile or neoprene rubber, polyvinyl chloride or Viton.
- Protective eyewear
- Chemical-resistant apron for mixers, loaders, and other handlers exposed to the concentrate.

User Safety Requirements: Follow manufacturer's instructions for cleaning/maintaining personal protective equipment, (PPE). If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them.

USER SAFETY RECOMMENDATIONS

Users should:

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

ENGINEERING CONTROLS

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

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided with all of the PPE specified above for applicators and other handlers, and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to mammals, fish and aquatic invertebrates. **Do not** apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Runoff from

treated areas may be hazardous to aquatic organisms in neighboring areas. **Do not** contaminate water when disposing of equipment washwater or rinsate.

GROUND WATER ADVISORY: Chlorothalonil, iprodione and tebuconazole are known to leach through soil into ground under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

SURFACE WATER LABEL ADVISORY: This product may contaminate water through drift or spray in wind. Under some conditions, it may also have a high potential for runoff into surface waters for several days to weeks after application. Poorly draining soils, wet soils with readily visible slopes toward adjacent surface waters or soil with shallow water tables are more prone to runoff that contains this product. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams and springs will reduce the potential for contamination of water from rainfall runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted within 48 hours.

PHYSICAL OR CHEMICAL HAZARDS

Do not use with or store near any oxidizing or reducing agents.

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.

Do not apply when wind speed favors drift beyond the area intended for treatment.

AGRICULTURAL USE REQUIREMENTS

Use this product 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 intervals (REI). 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 (REI) of 12 hours for all crops.

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:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear

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 (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. The area treated must be vacated by unprotected persons.

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

Do not treat areas while unprotected humans or domestic animals are present in the treatment area. Because certain States may require more restrictive reentry intervals, consult your State Department Agriculture for further information.

GENERAL PRECAUTIONS

QUALI-PRO® ENCLAVE 5.3 F can be used effectively in dilute or concentrate sprays. Thorough, uniform coverage is essential for disease control. Do not combine QUALI-PRO® ENCLAVE 5.3 F in a spray tank with pesticides, surfactants, or fertilizers, unless prior use has shown the combination to be physically compatible, effective, and non-injurious under your conditions of use. Do not combine QUALI-PRO® ENCLAVE 5.3 F with DiPel® 4L, Foil®, Triton AG-98®, Triton B-1956™ as phytotoxicity may result.

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

The required amount of QUALI-PRO® ENCLAVE 5.3 F should be added slowly into the spray tank during filling. With concentrate sprays, premix the required amount of QUALI-PRO® ENCLAVE 5.3 F 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 fl.oz. (fluid ounces) of QUALI-PRO® ENCLAVE 5.3 F per 1,000 square feet or pints 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 25 feet for ground applications near marine/estuarine water bodies unless there is an untreated buffer area of that width between the area to be treated and the water body.

PRODUCT INFORMATION

QUALI-PRO® ENCLAVE 5.3 F is a flowable product containing fungicides with multiple modes of action, to provide broad-spectrum preventative and curative control of all major turf diseases that injure cold- and warm-season turf on golf courses.

Apply QUALI-PRO® ENCLAVE 5.3 F with ground equipment using sufficient volume of spray to provide thorough coverage. Do not tank mix with highly alkaline pesticides such as Bordeaux mixture or lime sulfur. No claim of compatibility with other pesticides is implied. Use the higher rate under conditions of severe disease pressure. Also, see local State Extension Service instructions for application schedules.

Use the fl.oz./1,000 square feet rate for dilute ground application. Higher spray volume will result in better coverage and better disease control.

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

- The state of Arizona has not approved this product for use on agricultural commodities. If grown for commercial production, use on turf being grown for sale or other commercial uses such as sod and greenhouse or nursery sites/crops grown for commercial production is prohibited.

RESISTANCE MANAGEMENT

QUALI-PRO® ENCLAVE 5.3 F is effective for strategies designed to minimize the risk of disease resistance that could otherwise develop by continuous use of single-site mode of action fungicides. To avoid the development of tolerant or resistant strains of fungi, QUALI-PRO® ENCLAVE 5.3 F should be alternated with a fungicide of different chemistry such as one from the strobilurin (QoI) class (FRAC Code 11) for season-long programs. DO NOT USE PRODUCTS CONTAINING THIABENDAZOLE OR OTHER PRODUCTS CONTAINING THIOPHANATE METHYL IN COMBINATION OR IN ROTATION WITH QUALI-PRO® ENCLAVE 5.3 F. As long as these precautions are followed, QUALI-PRO® ENCLAVE 5.3 F can be useful for disease control even if resistant strains are present.

SPRAY PREPARATION

Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water. Prepare a suspension of QUALI-PRO® ENCLAVE 5.3 F in a mix tank. Fill the tank with 1/2 or 3/4 the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of QUALI-PRO® ENCLAVE 5.3 F and then the remaining volume of water.

TURFGRASS DISEASE CONTROL*

USE DIRECTIONS

QUALI-PRO® ENCLAVE 5.3 F may be used with most types of spray equipment commonly used for making ground applications. Proper adjustments and calibration of spraying equipment to give good canopy penetration and coverage is essential for good disease control. Use QUALI-PRO® ENCLAVE 5.3 F against certain foliar and soil diseases for use on all turf types to include golf course tees, greens, aprons, fairways and roughs. 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.

NOTES:

- Use QUALI-PRO® ENCLAVE 5.3 F both preventatively and curatively; it is not phytotoxic on turfgrass.
- For use only by certified applicators and those under their direct supervision.
- ***Do not** use QUALI-PRO® ENCLAVE 5.3 F on turf being grown for sale or other commercial uses such as sod.
- Not for Homeowner Use.
- **Do not** apply by air or through any type of Ultra Low Volume (ULV) spray system (<5 gallons per acre).

Mixing Instructions: Add the required amount of QUALI-PRO® ENCLAVE 5.3 F to a partially filled tank agitated by mechanical or hydraulic means. Add the remaining required amount of water. Maintain continuous agitation to keep the material in suspension. For best results, use spray mixture the same day it is prepared. When tank mixing other products with QUALI-PRO® ENCLAVE 5.3 F, follow the proper sequence of additions to the spray tank. Dissolve any product in water-soluble packaging fully before adding water dispersible granules or wettable powders. Following uniform dispersion of any dry products within the tank, suspension concentrates such as QUALI-PRO® ENCLAVE 5.3 F can be added. Emulsifiable concentrates should be added last.

Turf Types: All golf course related cool- and warm-season grasses (such as but not limited to Bentgrasses, Bermudagrasses, Bluegrasses, Fescues, Ryegrasses, St. Augustinegrasses and Zoysiagrasses) or their mixtures.

Controlling Turf Disease: Applications are warranted when conditions favor development of disease. Continue applications within the limitations recited below for as long as these conditions persist. For severe disease pressure, select the highest rate and shortest interval corresponding to the Rate and Remarks found in the table below.

Retreatment Intervals: The minimum retreatment interval for QUALI-PRO® ENCLAVE 5.3 F applications is 14 days at the 3 - 4 fl.oz. per 1,000 sq.ft. rate, and 21 days at the 5 - 6 fl.oz. rate, and 28 days at the 7 - 8 fl.oz. rate.

Turf Application Directions:

Apply QUALI-PRO® ENCLAVE 5.3 F uniformly over the area to be treated with a properly calibrated power sprayer. Apply after mowing or avoid mowing for 12 hours after application. Apply sufficient water to obtain thorough coverage; usually 1½ to 2½ gallons per 1,000 sq.ft. turf area or 65 - 100 gallons of water per acre. When treating golf course greens, always treat aprons and approaches to golf greens.

Retreatment (Spray) Intervals:

- **Greens and Tees:** Make 14 - 28 day intervals as required. When disease pressure is high, it is recommended to use a retreatment interval of 14 days at the rate of 4 fl.oz. per 1,000 sq.ft.

- **Fairways and other Turf Areas:** Make repeat applications at 14 - 28 day intervals as required.

***Use Restriction:**

In the State of New York, the maximum allowable use rate for tebuconazole on golf course greens, aprons and tees is 22 fl. oz. /1000 sq. ft. (which is 2.2 lb. active tebuconazole per treated acre) per year inclusive of all tebuconazole formulations applied. For instance, four sprays of QUALI-PRO® ENCLAVE 5.3 F at 3 fl. oz. /1000 sq. ft. would still permit one spray of QUALI-PRO® ENCLAVE 5.3 F in the autumn at the rate of 8 fl. oz. /1000 sq. ft. for snow mold control.

QUALI-PRO® ENCLAVE 5.3 F: APPLICATION RATES AND RETREATMENT INTERVALS FOR THE CONTROL OF DIFFERENT DISEASES*

DISEASE(S) CONTROLLED	RATE OF ENCLAVE 5.3 F fl.oz./1,000 sq.ft. **	REMARKS
Anthracnose (Basal*** and Foliar) (<i>Colletotrichum cereale</i>)	3.0 - 4.0 (14 - 21 day interval) 4.0** (14 day interval) 7.0 - 8.0 (28 day interval)	Use preventatively. Make additional applications at no less than 14-day intervals as needed. Allow spray to dry on leaves with no watering in.
Dollar Spot (<i>Sclerotinia homoeocarpa</i>) Copper Spot (<i>Gloeocercospora sorghi</i>) Brown Patch and Zoysia Patch (<i>Rhizoctonia solani</i>) Red Thread (<i>Laetisaria fuciformis</i>)	3.0 - 4.0 (14 - 21 day interval) 7.0 - 8.0 (28 day interval)	Apply when disease first appears. Make additional applications as needed. Allow spray to dry on leaves with no watering in.
Pink Snow Mold (<i>Microdochium nivale</i>) (Only for those areas where snow cover is not present the entire winter)	7.0 - 8.0 (28 day interval)	Apply QUALI-PRO® ENCLAVE 5.3 F in mid to late November before turf has stopped all growth activity. For best results, use a spreader-sticker. Leave on leaf surfaces with no watering-in. Minimum spray interval is 28 days.
Gray Leaf Spot (<i>Pyricularia grisea</i>)	3.0 - 4.0 (14 - 21 day interval) 7.0 - 8.0 ² (28 day interval)	Apply when conditions are favorable for disease development. Continue at 14-day intervals. Let spray dry on leaves with no watering in.
¹ Summer Patch (<i>Magnaporthe poae</i>)	3.0 - 4.0 (14 - 21 day interval) 7.0 - 8.0 (28 day interval)	For preventative treatment, make 3 applications at 28-day intervals beginning in early May. Water product into the root zone thoroughly after application. If treatment is begun after the disease first appears, apply the 4 fl.oz. rate twice at 14-day intervals. Otherwise, use the 8 fl.oz. rate at 28-day intervals.
Fusarium Blight (<i>Fusarium roseum</i>) ¹ Necrotic Ring Spot and ¹ Spring Dead Spot (<i>Leptosphaeria korrae</i>)	3.0 - 4.0 (14 - 21 day interval) 7.0 - 8.0 (28 day interval)	Make two applications at 14 to 28-day intervals beginning applications when the disease first appears.
¹ Stripe Smut (<i>Ustilago striiformis</i>)	3.0 - 4.0 (14 - 21 day interval) 7.0 - 8.0 (28 day interval)	Make two applications at 14-day intervals when disease first appears. For prevention, apply in spring before grass growth and in the fall.
Gray (<i>Typhula spp.</i>) and Pink Snow Mold (<i>Microdochium nivale</i>) Fusarium patch (Where snow cover is present the	7.0 - 8.0 (28 day interval)	Apply QUALI-PRO® ENCLAVE 5.3 F once in middle October to late November before snow cover. Do not apply on top of snow. Lightly water

entire winter)		<p>application into the root zone for best results.</p> <p>Tees and Greens Only: If conditions are favorable for <i>Fusarium</i>, a second application can be made at a minimum 28-day interval.</p>
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*In New York, the maximum allowable use rate for tebuconazole on turf greens is 2.2 lb. active ingredient per treated acre per year inclusive of all tebuconazole containing formulations. Because each fl. oz. of QUALI-PRO® ENCLAVE 5.3 F applied to turf is the equivalent of applying 0.1 lb. active tebuconazole/acre, the maximum allowable use rate of QUALI-PRO® ENCLAVE 5.3 F in New York is 22 fl. oz./1000 sq. ft. unless other tebuconazole formulations have been applied to the greens in the same year.

**Refer to the use sites and maximum application rates table below to determine the maximum allowable rates for each application and for the season.

***Use the higher rate of 4 fl.oz. and shorter intervals of 14 days for Basal Anthracnose

¹ Not for use in California.

² Use in California allowed at the high rate only (8 fl. oz./1,000 sq. ft.).

QUALI-PRO® ENCLAVE 5.3 F: MAXIMUM RATES PER APPLICATION AND PER GROWING SEASON FOR DIFFERENT USE SITES

Site	Maximum single Application Rate fl.oz./1,000 sq.ft.	Maximum Appl. Rate fl.oz./1,000 sq.ft./year	Maximum Appl. Rate (Pints/Acre/year)
Golf course green/aprons	8	44 (22 in New York)	120 (60 in New York)
Golf Course (Tees)	8	44 (22 in New York)	120 (60 in New York)
Golf Course Fairways (outside FL)	8	16	43.6
Golf Course Fairways (Florida only)	8	8	21.8
Golf Course Roughs (outside FL)	8	16	43.6
Golf Course Roughs (Florida only)	8	8	21.8

Note to User: Do not graze animals on treated turf. Do not feed clippings to livestock or poultry. In New York, do not exceed 22 fl. oz. /1000 sq. ft. per year on aprons, greens and tees or 60 Pints/Acre.

Maximum QUALI-PRO® ENCLAVE 5.3 F Application Rates per Year:

- **Tees, Greens and Aprons:** Do not apply more than 44 fl.oz. QUALI-PRO® ENCLAVE 5.3 F per 1,000 sq.ft. (120 pints/acre) per year. Do not apply more than 4 fl.oz. of QUALI-PRO® ENCLAVE 5.3 F per 1,000 sq.ft. at a 14-day interval, or 8 fl.oz. per 1,000 sq.ft. at a 28-day retreatment interval. Apply QUALI-PRO® ENCLAVE 5.3 F in at least 1½ to 2½ gallons of water per 1,000 sq.ft. when used in turf areas. When treating golf course greens, always treat aprons and approaches to golf greens.
- **Fairways:** Do not apply more than 16 fl.oz. QUALI-PRO® ENCLAVE 5.3 F per 1,000 sq.ft. (43.6 pints/acre) per year. Do not apply more than 4 fl.oz. of QUALI-PRO® ENCLAVE 5.3 F per 1,000 sq.ft. at a 14-day retreatment interval, or 8 fl.oz. per 1,000 sq.ft. at a 28-day interval.
- **Fairways in Florida:** Do not apply more than 8 fl.oz. QUALI-PRO® ENCLAVE 5.3 F per 1,000 sq.ft. (21.8 pints/acre) per year. Do not apply more than 4 fl.oz. of QUALI-PRO® ENCLAVE 5.3 F per 1,000 sq.ft. at a 14-day interval, or 8.0 fl.oz. per 1,000 sq.ft. at a 28-day interval. The maximum single application on fairways in Florida is 8.0 fl.oz. per 1,000 sq.ft.

Apply QUALI-PRO® ENCLAVE 5.3 F in at least 1½ to 2½ gallons of water per 1,000 sq.ft. of turf, or 65 - 100 gallons of water per acre. Higher spray volumes will result in better coverage and better disease control.

**HORTICULTURAL DISEASE CONTROL *
(GREENHOUSE, NURSERY, AND LANDSCAPE)
USE DIRECTIONS**

QUALI-PRO® ENCLAVE 5.3 F provides broad-spectrum control of many foliar, stem, and below-ground diseases on a wide range of horticultural plants grown or maintained under a variety of conditions. Apply QUALI-PRO® ENCLAVE 5.3 F prior to when a particular disease usually appears and at the very latest, upon first sign of disease. Use 14 - 28 day spray intervals. Add an acceptable wetting agent to the spray tank to increase product efficacy for hard-to-wet foliage. Use a spreader-sticker when excessive and repeated foliar wetting occurs. Use QUALI-PRO® ENCLAVE 5.3 F to control listed diseases on non-commercial fruit and nut trees. Do not use fruit or nuts from trees treated with this product as food. Do not apply this product to home orchards or backyard fruit trees after fruit set.

Note: QUALI-PRO® ENCLAVE 5.3 F has been determined to be safe for use on the plant types listed in these directions for use based on cumulative data derived from research trials and historical field use. As all species and cultivars have not been tested, perform trial applications if a user wishes to make an application to a plant type not listed on the label but found on a similar use site and for disease that is listed on the label. To conduct a trial application, apply at least two applications to at least 25 trial plants at the highest concentration, 7 days apart. Evaluate 7 days after the last application before initiating full-scale application. Do not use this product on the following plants: Swedish Ivy (*Neprolepsis exaltata*), Boston Fern (*Plectranthus australis*), and Easter Cactus (*Hatiara gaertneri*).

QUALI-PRO® ENCLAVE 5.3 F: ORNAMENTAL - PLANT TYPES TO BE USED ON

PLANT TYPE	
Herbaceous Bedding	Ageratum, Begonia, Canna, Coleus, Dahlia, Dusty Miller, Foxglove, Fuchsia, Geranium, Impatiens, Lavender, Marigold, Pansy, Petunia, Pinks, Primrose, Salvia, Statice, Strawflower, Tickseed, Verbena
Flowering	Chrysanthemum, Hydrangea, Hollyhock, Iris, Lily, Poinsettia
Tropical Foliage	Dieffenbachia, Dracaena, English Ivy, Philodendron, Pothos
Woody Ornamentals	Azalea, Hibiscus, Holly, Ligustrum, Rhodendrum, Rose, Pyracantha
Evergreen Trees	Douglas Fir, Fir, Larch, Pine, Spruce
Deciduous Trees*	Ash, London Plane, Maple, Oak, Sycamore, Walnut
Flowering Trees*	Cherry, Crabapple, Hawthorn, Mountain Ash, Pear

*Do not use fruit or nuts from treated trees as food or feed.

QUALI-PRO® ENCLAVE 5.3 F: ORNAMENTALS AND DISEASES TO BE CONTROLLED

DISEASE(S)	PLANT TYPES
Anthraxnose	Woody ornamentals, shade trees ¹
Ascochyta Blight	Herbaceous ornamentals
Black spot	Roses
Botrytris (Gray Mold)	Woody and herbaceous ornamentals
*Brown Rot	Woody and herbaceous ornamentals
Colletotrichum	Woody and herbaceous ornamentals
Cercospora Leaf Spot	Woody and herbaceous ornamentals
Corynespora Leaf Spot	Ligustrum
Didymellina Leaf Spot	Iris
Diplodia Tip Blight (Diplodia pinea)	Shade and ornamental trees
Ovulinia	Azalea, rhododendron ²
Entomosporium Leaf Spot	Woody and herbaceous ornamentals
Fusicaladium Leaf Scab	Woody and herbaceous ornamentals
*Phomopsis Blight	Woody and herbaceous ornamentals
Pine Tip Blights	Woody ornamentals
Powdery Mildew	Woody and herbaceous ornamentals, ornamental nut and fruit trees
*Rust Diseases	Ornamental nut and fruit trees
Ramularia Leaf Spot	Herbaceous ornamentals
Scab	Pyracantha, flowering crab, ornamental fruit and nut trees
Septoria Leaf Spot	Woody and herbaceous ornamentals
Venturia Leaf Scab	Woody and herbaceous ornamentals

¹ Begin at bud and make 2 or 3 additional applications at 14-day intervals.

² Begin treatments as flowers open. Addition of a spray surfactant to the spray mixture improves distribution of the spray on hard-to-wet plants.

* Not for use in California.

ORNAMENTAL FOLIAR SPRAY RESTRICTIONS

Maximum Single Application Rates:

Ornamentals: Do not exceed the maximum single application rate of 11 pints per acre. **Cut Flowers:** Do not exceed the maximum single application rate of 8 pints QUALI-PRO® ENCLAVE 5.3 F per acre.

Seasonal Maximum Application:

All Ornamentals: Do not apply more than 43.6 pints QUALI-PRO® ENCLAVE 5.3 F per acre per season.

Hydraulic Application Mixing Instructions:

Add the required amount of QUALI-PRO® ENCLAVE 5.3 F to a partially filled spray tank agitated by mechanical or hydraulic means and then add the remaining volume of water. Maintain continuous agitation to keep the material in suspension and apply with properly calibrated spray equipment.

Application Concentrations (Mechanical or Hand-Held):

Use the labeled amount of QUALI-PRO® ENCLAVE 5.3 F per 100 gallons of water or in sufficient water to apply to the point of runoff per acre, for the prevention and control of the diseases shown below.

Not for use in the state of Arizona on Greenhouse or Nursery plants grown for commercial sale.

QUALI-PRO® ENCLAVE 5.3 F: APPLICATION RATES TO CONTROL DIFFERENT DISEASES

DISEASE(S) CONTROLLED	CONCENTRATION OF QUALI-PRO® ENCLAVE 5.3 F fl.oz./100 Gallons or pints/Acre	REMARKS
Anthraxnose (<i>Colletotrichum</i>)	32 - 44 oz per 100 gal or 8 – 11 pts per acre	Apply as buds break or at first sign of disease. Repeat application at 14-21 day intervals as needed during disease period.
Black Spot of Rose (<i>Diplocarpon rosae</i>)	32 - 44 oz per 100 gal or 8 – 11 pts per acre	Apply early summer or at first sign of disease. Repeat application every 14-21 days as needed during disease period.
*Brown Rot and *Blight (<i>Monilinia, Sclerotinia, Whetzellinia</i>)	32 - 44 oz per 100 gal or 8 – 11 pts per acre	Apply late spring or at first sign of disease. Repeat application every 14-21 days as needed during the disease period.
Fusicladium and Venturia Leaf Scabs on: Crabapple, Hawthorn, Pear, Mountain Ash, Pyracantha, etc.	32 - 44 oz per 100 gal or 8 – 11 pts per acre	Apply as buds break. Repeat application every 14-21 days during disease period. Effective control requires coverage during expansion. Rotations with strobilurin (QoI) fungicides can be utilized.
Leaf Spots and Blights caused by: <i>Ascochyta, Blumeriella, Botrytis, Cercospora, Coccoomyces, Corynespora, Curvularia, Didymellina, Entomosporium, Fabraea, Fusarium, Ramularia, Rhizoctonia, Marssoninia, Mycosphaerella, Myrothecium, Phoma, Physalasporea, Schizothyrium, Septoria, Sphaceloma</i>	32 - 44 oz per 100 gal or 8 – 11 pts per acre	Make applications when disease symptoms first appear. Repeat every 14-21 days during disease period. Rotations with strobilurin (QoI) can be used.
Ovulinia Blight	32 - 44 oz per 100 gal or 8 – 11 pts per acre	Apply as flowers open. Repeat every 14 to 21 days during disease period.

Powdery Mildews <i>Erysiphe, Microsphaera, Phyllactinia, Podosphaera, Oidium, Sphaerotheca</i>	32 - 44 oz per 100 gal or 8 - 11 pts per acre	Apply when disease first appears and repeat application every 14 to 21 days. Rotations with other effective products can be used.
*Rust Diseases caused by: <i>Puccinia, Gymnosporangium, Uromyces</i>	32 - 44 oz per 100 gal or 8 - 11pts per acre	Apply late spring or when symptoms first appear. Repeat applications every 14 to 21 days during disease period. Rotations with other effective products can be used.
Tip Blight of Pine <i>Sphaeropsis sapinea, Diplodia pinea</i>	32 - 44 oz per 100 gal or 8 - 11pts per acre	Begin applications in the spring when new growth starts. Make a second application just prior to needle emergence from the sheath and a third application 14-21 days later. Ensure thorough coverage.
*Twig Blights, *Cankers, and *Diebacks <i>Diaporthe, Kabatina, Phoma, Phomopsis</i>	32 - 44 oz per 100 gal or 8 - 11pts per acre	Apply when symptoms first appear. Repeat applications every 14 to 21 days during disease period.

Adjuvants: Where rainfall and/or overhead irrigation is the norm, use of a compatible spreader/sticker is suggested. Where wetting of foliage is difficult, use a compatible wetting agent. Follow the phytotoxicity precautions described in the **HORTICULTURAL APPLICATIONS** section of this label.

*Not for use in California.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal or cleaning of equipment.

PESTICIDE STORAGE: Store in original container in dry area. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling, absorb with sand or other inert material and dispose of absorbent in accordance with the Pesticide Disposal instructions listed below.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING:

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 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. If recycling is not available, 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.

LIMITATION 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 Control Solutions, Inc. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, Control Solutions, Inc. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Control Solutions, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Control Solutions, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Control Solutions, Inc.'s election, the replacement of product.

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[OPTIONAL MARKETING CLAIMS]

- Patented Formulation!
- Patented Quad-Control Formulation
- Patented Quad-Control Technology™® Formulation
- Patented four-way formulation with Quad-Control Technology™®
- [With] [Made with][Formulated with][Engineered with][Created with]Quad-Control Technology™®
- Quad-Control Technology™® from Control Solutions
- Quad-Control Technology™® combines [four] [4] active ingredients
- Four-way flowable fungicide with Quad-Control Technology™®
- Quad-Control Technology™® combines multiple active ingredients for multi-site mode[s] of action.