

## **TURFGRASS (WEST: AZ, CA, NV.) - PLAN B**

### General Information

### USE INFORMATION

Quali-Pro Dithiopyr 2L is a pyridine-based herbicide that provides preemergence and early postemergence control of crabgrass, and preemergence control of other annual grasses and broadleaf weeds in established lawns, commercial sod farms, non-cropland, industrial sites, ornamental turf (including to golf course fairways, roughs, tee boxes), container-grown ornamentals, field-grown ornamentals, and landscape ornamentals.

#### Note:

- This product will not control emerged broadleaf weeds or grasses (except for crabgrass prior to tillering stage of growth).
- Quali-Pro Dithiopyr 2L will control emerged crabgrass up to the initiation of tillering (when crabgrass seedlings become visible in established turf grass, no more than 5 leaves per plant). Suitable control will not be attained when applications are made after initiation of tillering.
- All other applications of this product should be made preemergence (prior to germination of target weeds). Quali-Pro Dithiopyr 2L will not control established weeds.
- All applications must be followed by  $\frac{1}{2}$  inch or more of irrigation or rainfall for activation of Quali-Pro Dithiopyr 2L.
- Time applications to allow for activation before the tillering stage of crabgrass or germination of all other weeds.
- In New York State, this product may be used by commercial applicators only at no more than 2 pints (0.5 lb active ingredient) per acre per year. In Nassau and Suffolk counties of New York, do not exceed 1 pint per year of this product (equivalent to 0.25 lb of active Ingredient per acre).

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

Use Precautions:

- Do not apply sprays containing glyphosate over the top of ornamental plants.
- Do not allow glyphosate to come in contact with foliage and stems of turf grasses, trees, shrubs, or other desirable vegetation since severe damage or death may result.
- In areas adjacent to desirable plants, use a shield to prevent spray from contacting foliage and stems of desirable plants.
- The use of a nonionic surfactant may improve control. Read and follow the surfactant manufacturer's label recommendations.
- Conduct a compatibility test (jar test) using comparative proportions of the tank mix ingredients prior to mixing ingredients in the spray tank. See the Compatibility Test Mixing Instructions section of the label.

Limitations, Restrictions, and Exceptions

TURFGRASS

Quali-Pro Dithiopyr 2L can be used on seeded, sodded, or sprigged lawns and ornamental turfgrass that are well established.

Use Precautions:

- Before making the first application of Quali-Pro Dithiopyr 2L newly established turf must have developed a good root system and a uniform stand, and have received at least two mowings following seeding, sodding, or sprigging. If this product is applied on turf that is not well-established, or has been weakened by weather, pest, disease, chemical, mechanical or other related stress, turf injury may occur.
- For best results, allow 6 months for sod to be established before applying Quali-Pro Dithiopyr 2L.
- Quali-Pro Dithiopyr 2L will prevent the germination of annual bluegrass but will not affect established annual bluegrass. If maintenance of annual bluegrass is desired, using this product during the time of annual bluegrass germination is not

recommended. In the states of AZ, CA, NV, OR, WA, NM, ID, MT and UT, Quali-Pro Dithiopyr 2L may contribute to the thinning or stand reduction in established stands of annual bluegrass.

- Early post emergence applications of this product will control crabgrass only if applied prior to the fifth leaf (first tiller) stage of growth.
- For best results, cultural practices that disturb the soil, such as verticutting and core-, spike-, or hydro- aerification, should be done before applying this product.

#### Use Restrictions:

- Do not apply this product to golf course putting greens.
- Do not apply this product within 3 months of harvesting sod.
- Do not apply this product until the turfgrass has recovered from cultural practices such as verticutting or core-, spike-, or hydro-aerification.
- Do not use clippings from treated turf for mulching around vegetables or fruit trees.
- Do not apply more than 0.73 oz of Quali-Pro Dithiopyr 2L per 1,000 sq ft (2 pints per acre) per application.
- Do not apply more than 2.2 oz of Quali-Pro Dithiopyr 2L per 1,000 sq ft (6 pints per acre) per year using split or sequential applications.
- In New York State, do not apply more than 2 pints of Quali-Pro Dithiopyr 2L (0.5 lb active ingredient) per acre per year. In Nassau and Suffolk counties of New York, do not exceed 1 pint per year of this product (equivalent to 0.25 lb of active ingredient per acre).

#### Established Cool Season Turfgrasses

- Bentgrass, creeping: Do not use this product on certain varieties of creeping bentgrass, such as cohansey, carmen, seaside, and Washington as undesirable turfgrass injury may result. Not all varieties of creeping bentgrass have been tested. Do not apply this product to colonial bentgrass (*Agrostis tenuis*) varieties.
- Fescue, fine: Do not use this product on certain varieties of fine fescue as

undesirable turf injury may result. The following fine fescue varieties have been found to be sensitive to this product: Atlanta, banner, beauty, bilgart, CF-2, enjoy, HF-93, highlight, ivalo, Jamestown, koket, majenta, Mary, pennlawn, Tamara, Tatjana, waldorf, and waldina. Not all varieties of fine fescue have been tested.

#### Established Warm Season Turfgrasses

- Bermudagrass: Do not use this product on Tifgreen (328) hybrid Bermudagrass as undesirable turfgrass injury may result. Other common and hybrid Bermudagrass varieties are tolerant.

- Buffalograss: Do not use this product on seedling buffalograss in the spring of the first year of establishment until the turfgrass is fully green and has established new roots.

#### Reseeding, Overseeding, or Sprigging

Follow proper cultural practices such as soil cultivation, irrigation and fertilization when reseeding or overseeding. Use mechanical or power seeding equipment (slit seeders) designed to give good seed to soil contact

#### Use Precautions:

- Reseeding, overseeding, or sprigging of treated areas within 3 months after a single application of this product, or within 4 months after a split application program [totaling more than 0.73 oz per 1,000 sq ft (2 pints per acre)], may inhibit the establishment of desirable turfgrasses.

- If slight injury to perennial ryegrass can be tolerated, overseeding of Bermudagrass with perennial ryegrass 8 weeks after an application or as early as 6 weeks after application is an exception.

#### Application Instructions

To provide a uniform spray distribution, use conventional liquid application equipment, including hand held spray gun, in sufficient carrier volume. Calibrate application equipment before use. Cluster nozzles or other boomless spray equipment may not give suitable results because of inconsistent application volume and spray pattern. During application, avoid streaking, skips, or excess overlapping. For more accurate application, use marker dyes or foams.

## CRABGRASS CONTROL

### Preemergence Control

In established lawns and ornamental turf, Quali-Pro Dithiopyr 2L provides preemergence control of crabgrass (including the large, smooth, and southern species) when applied prior to crabgrass emergence.

### Early Postemergence Control

Quali-Pro Dithiopyr 2L provides early postemergence control of crabgrass during early crabgrass seedling growth following emergence. Since it is very difficult to monitor crabgrass seedlings at early stages of growth in well-established turfgrass, early postemergence control is only attained when this product is applied prior to the tillering of crabgrass (less than 5 leaves per plant). This is usually the time when crabgrass seedlings are easily observed in lawn or turf.

The time from crabgrass emergence until tillering will vary from 2 to 8 weeks as a result of climatic conditions and rate of growth. The use of a nonionic surfactant at 0.5% by volume (2 qt per 100 gallons of spray) may improve early postemergence control.

Follow all label requirements on the respective label of the manufacturer's surfactant.

### Timing of Applications

For crabgrass control in the spring, summer, or fall, apply this product as a single application, a split application, or a sequential application.

Early Summer or Spring Application: Apply Quali-Pro Dithiopyr 2L at the listed rate as noted in one of the three application plans in the table below. Rates used are

dependent on 1) the user's location, 2) the mowing height of the turfgrass, and 3) whether, at the time of application, the use is considered to be preemergence or early postemergence. The total rate applied will affect the length of residual weed control provided by this product. Weather, weed pressure, turfgrass competitiveness, and the user's location within a region are also variables in length of control.

Late Summer or Fall Application: Apply Quali-Pro Dithiopyr 2L in the late summer or early fall (late August through November) at the Plan C use rates listed in the table below. Season-long weed control can be attained by a fall application followed by an appropriately timed spring application. Do not exceed the maximum use rate per year.

Note: 1 oz equals 6 teaspoons

Plan B:

- For preemergence control in turf: (a) when turfgrass is cut relatively low (e.g., golf fairways); and (b) when turfgrass maintenance or weed control has been conducted during the previous year.
- Provides 4 to 6 months of preemergence crabgrass control and for early postemergence control up to crabgrass tillering at sites where turfgrass is cut relatively high.
- Make split applications with the rates in the Use Rates table being split across two applications made 5 to 10 weeks apart. Split applications may provide improved weed control.

Poa Annua (annual bluegrass) Control

- For preemergence control of Poa annua (annual bluegrass), apply this product at a rate of 0.38 to 0.5 lb active ingredient per acre. This is equivalent to 1.5 to 2 pints per acre.
- Apply 6 to 8 weeks before overseeding Bermudagrass with perennial ryegrass (specific to perennial ryegrass; not recommended for Poa trivialis or bentgrass).
- Minimum seeding rate of 400 lbs per acre for perennial ryegrass.

- Use only on fairways and roughs.
- Perennial varieties of *Poa annua* (var. *repens*) may not be controlled as well as the true annual.
- After overseeding, do not apply earlier than 16 weeks unless Injury to the ryegrass can be tolerated.
- For early season crabgrass treatment and suppression of some winter annual broadleaf weeds, a follo-wup treatment 16 weeks after overseeding may be made.

#### GRASS AND BROADLEAF WEEDS CONTROLLED

When applied as a preemergence, Quali-Pro Dithiopyr 2L controls annual grass and broadleaf weeds listed. Quali-Pro Dithiopyr 2L will not control emerged broadleaf weeds or grasses (except for crabgrass prior to tillering stage of growth).

Note: The area to be treated must be free of weeds before application.

West: AZ, CA, NV. In this climatically diverse region, use the higher rates in local areas with longer crabgrass seasons.

PLAN B: 1.0 + 1.5 pint / acre (0.37 + 0.55 lb a.i. / acre), 0.25 + 0.38 lb a.i. / acre

Method

[Broadcast](#)

Rates

[field rates 0](#)

[field rates 1](#)

[field rates 2](#)

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Restricted Entry Interval

12 hours

Timings

[Preemergence \(Weed\)](#)

[Postemergence \(Weed\)](#)