

UNION™ FUNGICIDE SC

Questions and answers about the new fungicide being registered by PBI-Gordon.

What is Union™ Fungicide SC?

Union™ Fungicide SC is a broad-spectrum, flowable liquid formulation of two active ingredients. It's currently being registered with the U.S. Environmental Protection Agency by PBI-Gordon. This product is proposed to preventatively control 21 turf diseases.

What are the active ingredients in Union™?

Azoxystrobin for broad-spectrum performance, including excellent patch disease control, and cyazofamid, the active ingredient that gives Segway Fungicide SC unsurpassed Pythium disease control.

What are the modes of action of Union?

Union will feature two modes of action, derived from a proprietary combination of Quinone outside inhibitor (QoI) and Quinone inside inhibitor (QiI) chemistry in RAC groups 11 and 21 – two FRAC groups with no known cross resistance.

What diseases will Union control?

- Pythium (blight, damping off, root dysfunction, and root rot)
- Brown patch
- Anthracnose
- Cool-weather brown patch
- Yellow patch
- Fairy ring
- Gray leaf spot
- Red thread
- Summer patch
- Rhizoctonia
- Other listed diseases

On what grass species will Union be labeled for use?

Union is proposed to be labeled for use on all cool-season and warm-season turfgrasses, including Kentucky bluegrass, fine fescues, tall fescue, perennial ryegrass, bentgrass, Bermudagrass (common or hybrid), Bahiagrass, Buffalograss, Centipedegrass, kikuyugrass, seashore paspalum, St. Augustinegrass (including improved varieties of St. Augustinegrass) and Zoysiagrass.

Where will Union be labeled for use?

- Golf greens, tees, fairways, and roughs
- Sod farms
- Seed farms
- College and professional sports fields
- Athletic fields
- Residential lawns
- Commercial lawns
- Parks

At what rate will Union be applied?

The proposed use rate for Union runs from 2.9 fl. oz./1,000 sq. ft. to 5.75 fl. oz./1,000 sq. ft., which will deliver the full power of the two active ingredients.

What will the maximum annual use rate be for Union?

The maximum annual use rate for Union is 17.25 fl. oz. per 1,000 sq. ft. The proposed maximum application rate is 5.75 fl. oz. of product per 1,000 sq. ft. (which equates to 250 fl. oz. or 1.96 gal. of product per acre - that's equivalent to 1 lb. cyazofamid active ingredient per acre and 0.55 lb. azoxystrobin active ingredient per acre).

There are two additional label restrictions that users need to be aware of:

- Do not apply more than 5 lb. of azoxystrobin ai/acre/year.
- Do not apply more than 3 lb. cyazofamid ai/acre/year.

How will Union be packaged?

Union will be available in a 2 x 2.5 gallon case.

Temperature restrictions/range?

No – there are no temperature restrictions on Segway/cyazofamid or azoxystrobin, the active ingredients in Union.

When will Union be available for sale?

We expect that Union will receive EPA registration and be available in 2020. Because its registration is still pending, Union is not yet available for use or sale.

**Pending Federal registration.*

This material is provided for informational and educational purposes only. Union is not currently registered or available for sale. Union registration documents have been submitted to the EPA for review in the United States. This information is not intended to promote sales of the product. When product registration is secured, the product label will address claims regarding product safety and efficacy, and sales of the product will be based on product labels.

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