TECHNICAL INFORMATION BULLETIN

Rapidicil® Herbicide

OVERVIEW

Rapidicil® (epyrifenacil) is a new herbicide for postemergence control or suppression of annual grasses and broadleaf weeds.

MODE OF ACTION

Rapidicil is a novel herbicide that belongs to a class of compounds known as protoporphyrinogen oxidase (PPO) inhibitors and may be used to control broadleaf weeds and grasses. It is an HRAC Group 14, with systemic movement through xylem and phloem.

BENEFITS OF *RAPIDICIL*

Field research has demonstrated that *Rapidicil* is a fast-acting herbicide that can be used for weed control prior to planting corn, soybeans or wheat, and additionally, up to three days after planting soybeans. Uses may include fall and spring burndown, as well as applications on fallow ground. *Rapidicil* shows activity against glyphosate-, ALS-, auxin- and PPO-resistant weeds, including waterhemp and Palmer amaranth.

Rapidicil also provides timely burndown control of weeds and termination of cover crops, allowing for implementation of conservation-tillage practices known to increase soil health and reduce carbon dioxide emissions compared to conventional tillage practices.

PERFORMANCE OF *RAPIDICIL*

Untreated	Standard	*Rapidicil* + tank mix partners

Studies show that *Rapidicil* is more effective than the standard treatment in the termination of a cover crop. The field trial plots featured in the foreground of the above photo are from a wheat cover crop termination study. The far left plot was the untreated check. The second plot was the standard treatment of glyphosate plus 2,4-D. The third plot was treated with *Rapidicil* plus glyphosate. The remaining three plots replicated the *Rapidicil* plus glyphosate treatment each with an additional herbicide. The photo was taken 14 days after treatment. The weather after these treatments was cool to cold and wet.

Location: Leland, MS. Source: Valent U.S.A.

PERFORMANCE OF *RAPIDICIL*

Rapidicil + glyphosate performance 3 days after treatment vs. glyphosate alone.

The field contained a mix of grasses and broadleaf weeds.

Location: Seymour, IL
Source: Valent U.S.A.

***Rapidicil* + glyphosate** | **Glyphosate alone**

HOW TO USE *RAPIDICIL*

Rate	• Burndown: 5 oz/A • Bare ground (non-agricultural applications): 5–10 oz/A
Stewardship	Apply in combination with a labeled burndown herbicide
Adjuvant	• COC or MSO • AMS or UAN may be added to enhance control
Method	Ground or air (agricultural applications) Ground only (non-agricultural applications)
Rainfastness	1 hour

ACTIVE INGREDIENT INFORMATION

Common Name: Epyrifenacil (ISO)

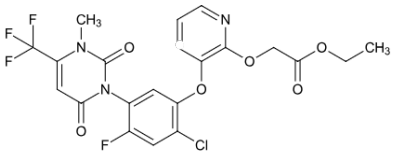
Chemical Name: ethyl [(3-{2-chloro-4-fluoro-5-[3-methyl-2,6-dioxo-4-(trifluoromethyl)-3,6-dihydropyrimidin-1(2H)-yl]phenoxy}-2-pyridyl)oxy] acetate (IUPAC)

Group Name: Inhibition of Protoporphyrinogen Oxidase (PPO)

Chemical Group: N-phenylimide

HRAC Group: 14

Chemical Structure:



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