AgroSpectrum ASIA
Envisaging Future | Updating Present

Canada approves epyrifenacil-based herbicides for weed control in major field crops

06 November 2026 | News

Health Canada's regulatory approval introduces two herbicide formulations for weed management in canola, corn, soybean and wheat, including options for controlling resistant weed populations



Health Canada has granted registration for the sale and use of two epyrifenacil-based herbicides, S-3100 0.46 EC Herbicide and V-10488 0.94 SE Herbicide, expanding crop protection options for Canadian growers managing grass and broadleaf weeds in major field crops.

The approval, issued under Canada's Pest Control Products Act, also covers S-3100 Technical, marketed as Rapidicil Technical, containing the active ingredient epyrifenacil.

The registration permits S-3100 0.46 EC Herbicide to be applied before planting in canola, field corn, spring wheat and winter wheat, as well as before planting and before crop emergence in soybeans.

V-10488 0.94 SE Herbicide has been authorised for pre-plant applications in spring wheat and pre-emergence applications in soybeans. Both products are also approved for fall burndown, fallow land management, non-cropland weed control and industrial vegetation management.

Epyrifenacil belongs to Group 14 herbicides and works by inhibiting the enzyme protoporphyrinogen oxidase (PPO), which is involved in chlorophyll production. This process disrupts plant cell membranes, resulting in weed tissue damage and plant death.

According to Health Canada's regulatory assessment, epyrifenacil has a distinct binding mechanism that enables it to control certain weed populations resistant to other herbicide chemistries within the same mode-of-action group.

S-3100 0.46 EC Herbicide is formulated to provide burndown control of grass and broadleaf weeds, while V-10488 0.94 SE combines epyrifenacil with flumioxazin and pyroxasulfone to provide both burndown and residual weed control.

The products are intended to help growers manage early-season weed competition, particularly in conservation tillage systems where effective weed control before crop establishment is important for maintaining access to soil moisture, nutrients and sunlight.

Health Canada's decision follows a regulatory evaluation and a 30-day public consultation period that concluded on September 20, 2026. The regulator determined that the products' health and environmental risks and pest-control value were acceptable under the approved conditions of use.

The authorisations include mandatory risk-mitigation requirements, while epyrifenacil has been designated for additional regulatory oversight based on environmental assessment criteria.

The approval marks a new regulatory milestone for epyrifenacil-based crop protection technology in Canada, providing growers with additional herbicide options for managing problematic weeds and supporting weed resistance management strategies.