

DuPont™ Perspective™

herbicide

Technical Bulletin

DuPont™ Perspective™ herbicide is a developmental product for which an application has not yet been filed with EPA. This developmental product is not registered for use and sale in the United States, and no sale, offer for sale or use of this product may be made unless and until all necessary federal and state registrations have been obtained.

DuPont™ Perspective™ herbicide is being developed to help restore natural grasses and control encroaching weed species to improve public roadside safety. Field tests indicate that it can be a useful tool to help manage invasive weed species.

Product Profile (based on DuPont field trials)

- Low use rate
- Broad-spectrum weed control
- Control of difficult species such as leafy spurge, knapweeds and thistles
- Selectivity to many perennial and native grasses
- Low impact on mammals, wildlife and the environment



BIOLOGICAL ACTIVITY AND USE

General Information

Perspective™ herbicide is a dispersible granule that is mixed in water and applied as a spray. Perspective™ will be used for general weed control for non-crop applications on private, public and military lands.

In field trials Perspective™ provided preemergence and/or postemergence control of broadleaf weed species. For perennial species, a postemergence application will be required for best control.

Mode of Action

Perspective™ herbicide is being developed by DuPont to control a broad spectrum of broadleaf weeds through two modes of action.

Perspective™ combines a new synthetic auxin mode of action with a sulfonylurea herbicide. Having two modes of action allows better weed management by providing a wider spectrum of broadleaf weed control, including ALS-resistant weeds. Perspective™ is being developed to control encroaching weeds and allow restoration of many native grasses in public roadsides to help improve public roadside safety.

Use Rate and Biological Activity

Perspective™ has been applied in field trials at use rates of 1.25 to 8.0 ounces of product per acre. When applied as a spray, Perspective™ is absorbed by both roots and foliage of plants, rapidly inhibiting the growth of susceptible weeds. Warm, moist conditions following application accelerate the herbicidal activity of Perspective™; cold, dry conditions delay the herbicidal activity. Weeds hardened off by drought or other plant stresses are less susceptible to Perspective™.



WEED CONTROL SPECTRUM DuPont™ Perspective™ herbicide

PARTIAL LISTING

Buttercup	Marestail/horseweed
Carrot, wild	Mullein
Dyer's woad	Pigweeds
Goldenrod	Plantain, buckhorn
Halogeton	Russian thistle
Houndstongue	Sickleweed
Ironweed	Spurge, leafy
Knapweed complex	Starthistle, yellow
Kochia	Teasel
Lespedeza	Thistle: Canada, musk, Scotch, bull

NOTE: The degree and duration of control may depend on the weed spectrum and infestation intensity, weed size at application, soil type, organic matter content and environment conditions at and following application.



Uptake, Absorption and Translocation Characteristics

Perspective™ is absorbed by both roots and shoots and translocates throughout the plant in the xylem and phloem. Field trials demonstrated Perspective™ is especially active on young, actively growing weeds.

Soil Activity and Degradation

Field trials demonstrated that Perspective™ is biologically active in soil and can be taken up by plant roots to provide control. It does not stop germination but controls young, actively germinating weeds with uptake through both the roots and shoots. Few other products have this double uptake mechanism, which provides good control under both low rainfall and high rainfall conditions. Perspective™ is degraded in soil by microbes, hydrolysis and, to a lesser extent, by photolysis to biologically inactive products.

Perspective™ will provide longer residual under cool and dry conditions and where soil pH is alkaline. Soil texture and organic matter (OM) have moderate effects on use rates as Perspective™ is not bound tightly to either OM or clay.



Plant Selectivity, Sensitivity and Residues

Perspective™ herbicide is a developmental product for use in non-crop situations only, and care should be exercised when it is used in the vicinity of crop plants. Exposure to Perspective™ may injure or kill most crops.

Toxicity and Metabolism in Animals

Studies have shown that the active ingredients in Perspective™ have low toxicity to mammals, birds and insects. These active ingredients are rapidly absorbed and eliminated in warm- and cold-blooded animals and do not bioaccumulate.

RESIDUES IN FOOD — Not Applicable.

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Reorder No.: K-15192*



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