

## TECHNICAL EDUCATION FAQ

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### A new level of confidence in preplant burndown

Reviton™ is a next-generation burndown herbicide that quickly eliminates weeds resulting in a stronger clean start foundation for maximum yield potential and ROI.

The following are Frequently Asked Questions about new Reviton and its novel active ingredient. To learn more about Reviton, go to [discoverhelm.com](http://discoverhelm.com).

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#### What is Reviton?

Reviton is breakthrough herbicide technology, offering a new proprietary active ingredient for use in the preplant burndown and desiccation segments.

Proven to control or suppress more than 50 broadleaves and grasses, key characteristics of Reviton include an ultra-low use rate, broad tank mix compatibility, crop rotation flexibility and expanded use as a desiccant for cotton.

#### What crops can Reviton be used on?

Reviton is currently registered for use in corn (field), cotton, soybeans and wheat.

#### What is the mode of action in Reviton?

Reviton's active ingredient is called Tergeo™, a PPO-inhibitor herbicide with a WSSA Group 14 classification. As a new pyrimidinedione herbicide, Tergeo shuts down chlorophyll production and photosynthesis resulting in a rapid built up of reactive oxygen species and lipid per oxidation of the cellular membrane followed by quick herbicidal effects.

#### How should Reviton be applied?

Reviton is to be used as a burndown (preplant or preemergence) ahead of crop planting. The recommended application method is a broadcast spray using conventional low-pressure ground sprayer equipment. Reviton can also be used as a desiccant on cotton for quick and reliable crop drydown prior to harvest.

#### Does Reviton need to be used with an adjuvant?

Reviton applications require the addition of an adjuvant applied at label recommended rates. Testing has shown premium methylated seed oil (MSO) based adjuvants are recommended to achieve consistent performance.

Due to applications being made over a broad range of agronomic conditions, crop oil concentrates (COC) and non-ionic surfactants (NIS) are not recommended in place of premium MSO adjuvants for use with Reviton. However, research has shown that some premium COC and NIS products can achieve similar levels of performance to that of premium MSO products. For guidelines specific to adjuvant use, mixtures and spray volume, always reference the Reviton label.

#### How does Reviton perform on resistant weed species?

In more than 700 North American product development trials and regulatory studies, Reviton has demonstrated extremely high performance ratings in burndown of the most troublesome and resistant broadleaf weeds.

Hosting a new active ingredient, Reviton allows growers to take the selection pressure off of 2,4-D and dicamba while strengthening their existing integrated weed control systems for sustainable resistance management.

#### How safe is Reviton on label designated crops?

In field trials, the active ingredient in Reviton shows no signs of crop injury or phytotoxicity when used according to label guidelines. It also provides flexibility in plant back options across a variety of crops.



## What weeds does Reviton control?

Reviton will control or suppress more than 50 broadleaf and grass weeds including:

Amaranth (Palmer)	Foxtail species	Morningglory species	Sowthistle
Barnyardgrass	Goosegrass	Mustard	Velvetleaf
Carpetweed	Hairy fleabane	Nightshade species	Volunteer canola
Chickweed	Henbit	Pigweed species	Volunteer corn
Cocklebur	Johnsongrass (seedling)	Prickly lettuce	Volunteer wheat
Crabgrass	Kochia	Prickly sida	Waterhemp
Dandelion	Lambsquarters	Prostrate knotweed	Wild buckwheat
Downy brome	Little barley	Purslane	Wild oats
Evening primrose	Mallow	Ragweed species	Willowweed
Field bindweed	Marestail	Shepherd's purse	
Filaree	Mayweed chamomile	Sicklepod	

## How quickly does Reviton work?

Reviton is described as being fast-acting with foliar effects occurring within 24 hours after application. Its active ingredient is rapidly absorbed by plants and within a few hours the foliage of susceptible weeds show signs of desiccation. In subsequent days, tissue necrosis occurs followed by weed death.

## What are some of the unique benefits of Reviton?

### For Preplant Burndown

- Novel active ingredient with a low use rate
- Controls weeds faster than 2,4-D and glyphosate
- Resistance management weed control tool
- Superior efficacy and crop rotation flexibility

### For Crop Desiccation

- Rapid and complete drydown in cotton
- Greater flexibility in harvest scheduling
- Prepares crop for a clean and easy harvest
- Signal Word 'Caution'

## What is the formulation of Reviton?

Reviton is formulated as a suspension concentrate (SC) and contains 2.83 pounds of active ingredient per gallon of formulated product.

## Who developed Reviton's active ingredient?

Tergeo, a novel proprietary active ingredient, was discovered by Farm Hannong, a Korean company, and was developed by Ishihara Sangyo Kaisha, Ltd., (ISK) of Osaka, Japan, as a co-development with Farm Hannong.

## When will Reviton be available for commercial use?

Reviton has received registration approval from the U.S. Environmental Protection Agency and is available for use in corn (field), cotton, soybeans and wheat. Additional crop registrations are to be expected.



For more information, visit [discoverhelm.com](https://discoverhelm.com).

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