



Advantages of Reglone	Disadvantages of Reglone
Rapid dry down, results typically within 7 days	Does not provide weed control
Seed germination is not affected	Contact only, no movement within the plant
Shorter time between seed maturity and harvest	Water volume is critical to application success

Diquat (Reglone, Reglone Ion, and Dessica) is a true desiccant that works by rupturing the cellular membrane of plant cells it comes into contact with upon exposure to light. Reglone does not kill the plant like most herbicides through systemic action in all cells. Instead, Reglone acts in a similar manner to a frost by destroying the outer layer of cells exposed to the herbicide and allowing the plant to dry down naturally faster than it would without Reglone application. In order for Reglone to work effectively it must have the correct combination of water volume, surfactant, active ingredient rate, and timing. On indeterminate plants like Alfalfa, it is critical that Reglone is applied under the best possible combination of those factors in order to increase the rate of success of the first application.

Rate:

Reglone and Dessica: 0.7 L/ac to 1.1 L/ac **Reglone Ion: 0.84 L/ac to 1.3 L/ac**

Syngenta does not recommend applying less than 1 L/ac of Reglone/Dessica (1.2 L/ac Reglone Ion) on dense or weedy stands of Alfalfa seed.

Water Volume:

Minimum 20 gallons per acre by ground or 5 gallons per acre by air.

Syngenta strongly recommends that growers consider using more than 20 gallons per acre when applying Reglone on Alfalfa. Given the contact nature of Reglone, insufficient water volume with Reglone on a dense stand is a common source of failure.

Surfactant:

Agral 90 at 0.1% v/v or Li700 at 0.25% v/v with Reglone and Dessica. Reglone Ion includes surfactant premixed in the jug.

Additional surfactant, particularly additional Li700, has been used in the past with success particularly under dusty conditions. Additional surfactant does not compensate for lowering water volume.

Application Timing:

Apply when the majority of the pods of individual plants are ripe but before they shatter.

It is critical to spray Reglone under only low light conditions. This allows for the Reglone to spread out on the plant. Reglone is a contact product and if it is sprayed during a sunny day results will be poor. Best results with Reglone have been seen when Reglone is applied in the evening after the sun has set or in the morning before the sun rises. Reglone can be sprayed at night. Reglone can also be applied on completely overcast days.



Diquat Branding:

There are several brands of Diquat available to the market in Canada. Syngenta supported brands are Reglone and Reglone Ion. Dessica is a Syngenta value brand.

Reglone and Dessica contain 240 grams of Diquat per liter of solution in the jug. Reglone Ion contains 200 grams of Diquat per liter of solution in the jug in addition to the labeled rate of a surfactant. Due to this difference the rate of our 240 brands is not the same as the rate of Reglone Ion. Take caution to avoid confusing the two when spraying.