

Close out the
season strong
with Reglone Ion



 **Reglone[®] Ion**

syngenta.



Desiccate to maximize harvest efficiency when straight cutting canola



Take control of your harvest

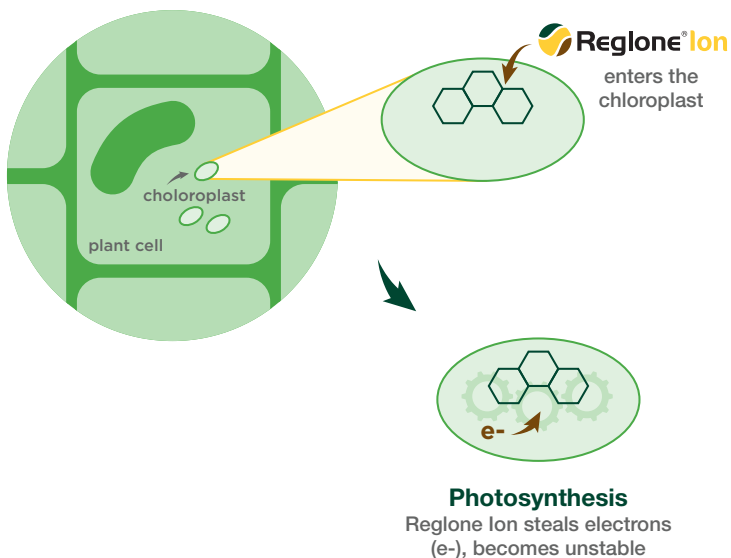
Reglone® Ion is a true desiccant designed to speed up and even out the natural dry down process, allowing you to potentially start harvesting sooner and thresh the crop more easily.

Reglone Ion is registered for use on all canola types but recommended for use on straight-cut canola varieties.

Refer to the label for a complete list of registered crops.

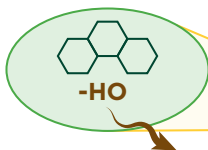
What it is and how it works

Reglone Ion is formulated with diquat (Group 22), a molecule that is highly specialized at providing dry down:

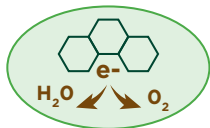
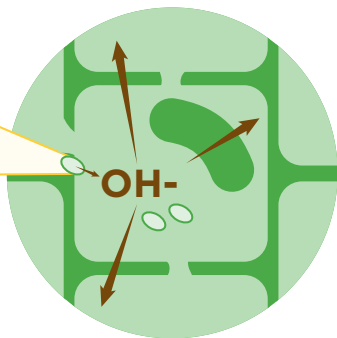


Leaking cells lose their water and dry out, desiccating the plant

OH⁻ is a hydroxyl radical
created when H₂O and O₂
take on free electrons



Desiccation
OH⁻ attacks fatty acids,
blasting holes in the cell wall,
causing them to leak



Reacts with H₂O and O₂
e⁻ is given away, diquat is
now happy and stable

Where and when does Reglone Ion work best?

Reglone Ion desiccant can help producers that have invested in shatter-resistant canola varieties take better control of their harvest. As a true desiccant, Reglone Ion works on contact to burst the water-filled surface of the plant for fast, effective dry down.

A desiccated canola crop will be consistently drier and less likely to take on environmental moisture, so it will thresh more smoothly and easily. This also means you can start combining sooner, run faster and get more acres harvested in a day.

That said, field selection, crop staging and proper application are important for a successful Reglone Ion pre-harvest application in canola.

Why use Reglone Ion on straight-cut canola?

- Robust standing crops with mature seeds can still have green racemes and stems. This makes the crop more difficult to combine and slows you down.
- Uneven dry down of canola plants later in the fall can make setting your combine difficult and result in harvesting and binning green plant material or throwing over too much crop.
- You can't count on the weather to cooperate. When canola seed is brown and ready to go into the bin, don't wait and risk the standing crop being blown around or snowed on.
- Some straight-cut canola varieties have a lot of integrity, which makes for tough threshing. Reglone Ion can assist by drying down the crop.

Role of a pre-harvest desiccant application



Improve control of harvest timing



Increase combine efficiency



Perennial weed control

Choose the right tool for the job: Reglone Ion vs. glyphosate

REGLONE ION

I need...

my field to be ready to harvest
when I'm ready to go.

GLYPHOSATE

I need...

to get these perennial weeds
taken care of before harvest.

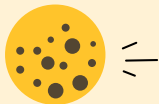


When to use Reglone Ion

Crop staging



Look for brown colouring in the upper pods and stems. The crop should be changing from green and yellow to brown.



Mature seeds are loose in the pod and rattle when the plant is shaken.



Aim to dry down when 90 percent of each plant has seeds that have turned completely brown.



Quick tip: When checking the crop for colour change, be sure to **look at the top 10% of pods**. If these top-most pods aren't brown, none of the others will be either.



Getting it right

Five things to think about:

1. Weather
2. Timing
3. Application rate of product
4. Water volumes – ground or aerial
5. Sprayer boom height

1

Weather

- Reglone Ion is activated by photosynthesis – spray on cloudy days or in the evening so the product can fully diffuse across plant surfaces and between plant cells prior to activation.
- Apply into a warming trend for faster results, as rapid photosynthesis will result in quicker activity.
- Rainfast in 15 minutes.

Unfavourable weather?

With clean water and a clean spray tank, Reglone Ion can sit for three days with periodic daily agitation.

2

Timing

Crop timing: 90 per cent or more of the individual seeds on the entire plant have turned brown before spraying.

Harvest timing: Combine as soon as the crop is dried down.

Dry down speed can be impacted by weather conditions. Cool, wet weather and shorter days after application can slow the dry down process. Hot, dry weather means the crop can be ready to combine very quickly.

Still need clarity?

There is a difference between brown seed percentage and seed colour change (SCC).

- SCC indicates physiological maturity only, so a seed can finish filling but still be green or yellow.
- Brown seed measure is exactly what it says: the seed must be brown to be considered ready.







3

Application rate

Reglone Ion = 0.83 L/acre

4

Water volumes

High water volumes provide the best coverage

20 imperial gallons
per **acre**
Ground

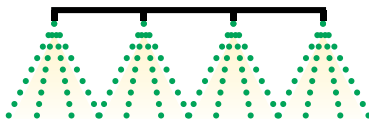
Air 
4.0 imperial gallons
per **acre**

Using the full rate and a high water volume will help Reglone Ion desiccate the crop more quickly and completely.



5

Sprayer speed and boom height



Optimize nozzle pattern for maximum coverage



Benefits of desiccation before straight cutting

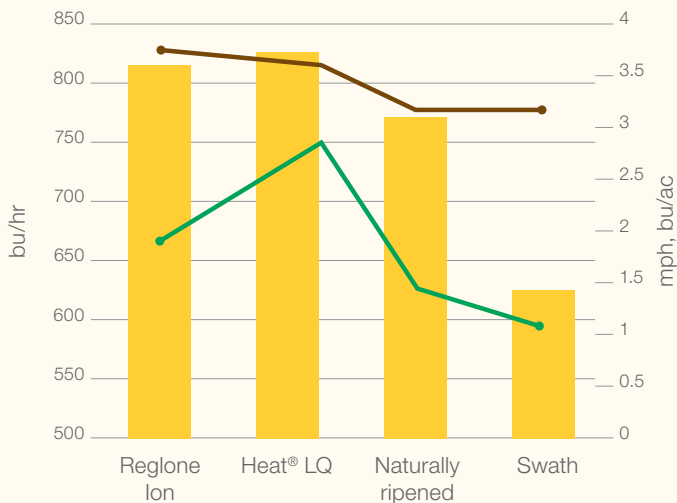
Control harvest timing

- Speed of dry down means you can plan where the combines go next
- Weather turns
- No need to wait on green stems after the seeds are mature

Less green material for better combine productivity

- Easier threshing due to more uniform, drier plant material
- Crop picks up less moisture after rain/snow events
- Potentially fewer plugging issues

Comparison of ground speed, threshing losses, and combine productivity



— Ground speed (mph)

— Losses (bu/ac)

— Combine productivity (bu/hr)

Source: PAMI, 2017.

Questions?

Lean on us for harvest support!

Syngenta has the expertise and experience to help you stage and apply Reglone Ion for a smooth, stress-free dry down. Consult any of these helpful resources if you need a hand:



Syngenta Representative

your dedicated resource
for product expertise



Your local retailer

a wealth of knowledge
for staging and local
conditions



Syngenta.ca

easily find product labels and
instructional videos, and chat
online with our Customer
Interaction Centre

Performance evaluations are based on internal trials, field observations and/or public information. Data from multiple locations and years should be consulted whenever possible. Individual results may vary depending on local growing, soil and weather conditions.

For more information, visit [Syngenta.ca](https://www.syngenta.ca), contact our Customer Interaction Centre at 1-87-SYNGENTA (1-877-964-3682), or follow @SyngentaCanada on Twitter.

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