

Retacel 720^(TM)

Helps prevent lodging & increases yield in wheat



What are we treating...

Lodging is a disorder that occurs when the crop falls over because the top of the plant is too heavy for the stem or roots to support. Lodging can significantly reduce yield and cause poor grain quality. Flat crops can delay harvest, reduce grain quality, and increase drying costs.

During the past few years, improved farming methods and crop varieties have allowed wheat growers to considerably increase yield. Lodging is one of the biggest obstacles to achieving high yields in intensive wheat production in Australia. In intensive production systems such as irrigated crops and wheat grown in high rainfall areas, the risk of yield reduction due to lodging is significantly higher when seasonal conditions favour such events. Retacel 720 Plant Growth Regulant is registered in wheat to prevent lodging and increase yield.

Two forms of lodging can be present: 1) stem lodging occurs when heavy wind and rainfall exert a force that breaks the stem base. Often, stem kinks near the base especially this type of lodging is found after a severe thunderstorm. 2) Root lodging is typically found when, after several days of rainfall, the plant's root system is unable to keep the stem straight, with its heavy, water-soaked ear.

Protection Matters

Draslovka is one of the biggest Chlormequat producers in Europe. Retacel 720 Plant Growth Regulant contains Chlormequat, also known as ChlorCholineChloride (CCC), serves as a major agricultural growth regulator in a number of countries.

CCC promotes sturdier growth, by inhibiting plant hormone gibberellins and cell elongation, and reduces the risk of lodging, resulting in increased yield, especially for cereal crops.

Benefits at a Glance...

- Reduces lodging
- Increases grain quality and yield
- Improves water and nutrient uptake
- Improves overall health of the crop and reduces risk of disease
- Strengthened root system
- Facilitation of harvesting

Performance Gains

Retacel 720 Plant Growth Regulant is exceptional in promoting growth processes and in boosting stability of the stem, its use resulting in a shortening thereof, thus strengthening both its base and thickening its wall. As a result, resistance to lodging increases substantially.

Due to gibberellin inhibition, Retacel 720 Plant Growth Regulant shortening and strengthening base and wall of the stem. In addition, Retacel 720 Plant Growth Regulant positively affects physiological processes in the plant metabolism and significantly contributes to a better utilization of nutrients, increases yields, and improves overall quality of plants. Also, the use of Retacel 720 Plant Growth Regulant makes harvesting easier, with higher yields and improved quality.

Draslovka Services Group

info@draslovka-services.com
www.draslovka-services.com

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Comparison of PGRs used in wheat in Australia

	Chlormequat chloride	Trinexapac-ethyl
Mode of action	Inhibits early stages of gibberellin biosynthesis	Inhibits late stages of gibberellin biosynthesis
Minimum temperature	8°C	10°C
Onset of action	Slow	Fast
Residual activity	Long	Short

Application Rates and Methods

Retacel 720 Plant Growth Regulant contains 558 g/L Chlormequat present as Chlormequat chloride. It should be used from 522 to 1360 mL per hectare.

Apply at Zadoks stage Z25 to Z31, using a minimum of 30L total spray per hectare for aerial application and 100L per hectare by ground rig. Use the higher rates in irrigated or potentially high- yielding crops. Addition of 1 mL non-ionic surfactant per litre of spray is desirable.

Put half the required amount of hard or soft water in the spray tank, start agitation, add the recommended quantity of Retacel 720 Plant Growth Regulant then add the rest of the water. Add non-ionic surfactant last.

Retacel 720 Plant Growth Regulant in wheat should only be considered as part of the management strategy when the risks of lodging are high.

Draslovka Services – Advice on product use

Plant growth regulators can enormously improve crop performances and yield. But to be able to release plant potential in right the direction it needs to be used in the best possible way and the best possible moment, as an integrated part of the high yield strategy.

The use of Retacel 720 Plant Growth Regulant in wheat will not be appropriate in all conditions. Product should not be applied under the drought stress conditions. Research in Australia showed in few cases negative yield response or not cost-effective response. Retacel 720 Plant Growth Regulant should be considered as an integrated part of a control package in lodging sensitive varieties on high-nitrogen fields.

Draslovka Services research and technical staff focusing on field support, research, and product development. In order to help improve your crop and achieve the best results contact our team for additional advice.

Draslovka Services Group

Established in 2015, the Draslovka Services Group is a group of companies tasked with providing global trial support, application and product development consulting, as well as registration and business development support for suppliers, distributors, and customers. The Draslovka Services Group HQ is strategically based in Melbourne, Australia to ensure real time support – and in conjunction with consolidated entities can provide 24-hour global coverage for the support of the entire Draslovka product portfolio. The Draslovka Services Group directly fills a gap in industry between the manufacturer and the end-user, enabling a direct link to ensure seamless custom application development and commercial support.

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