



ADAMA

Promote® Plus 900

Plant growth regulator

Product overview

Promote® Plus 900 is a high concentration formulation of ethephon that helps to increase recoverable lint yield and quality by accelerating boll opening, pre-conditioning before defoliation and/or defoliation.

Mode of action

Promote Plus 900 belongs to the ethylene-releasing class of plant growth regulators. Upon metabolism by the plant, ethephon is converted into ethylene, a potent regulator of plant growth and maturity. The active ingredient moves systemically and is widely translocated around the plant.

At a glance

Proven performance	Promote Plus 900 improves harvest efficiency and increases recoverable lint yield and quality.
Concentrated formulation	Promote Plus 900 contains 900 g/L ethephon for reduced application rates, transport, storage, handling and waste.
Excellent compatibility	Promote Plus 900 is ideal for tank-mixing with Escalate® 500 or Escalate® UltraMax to maximise recoverable lint yield and quality.

Directions for use (Qld, NSW, NT & WA only)

Situation	Rate/ha	Critical comments
Defoliation, acceleration of boll opening	1.6–2.4 L/ha in minimum 20 L/ha water	Application to be made when there are sufficient unopened bolls present to obtain the desired yield. Higher rates are used when the following conditions apply: <ul style="list-style-type: none">• On stressed plants• On a heavy crop with plenty of foliage present• If mean day/night temperatures are likely to drop below 22°C within five days of application.
Pre-conditioning of crop before a normal defoliation is to occur	1.04 L/ha in minimum 20 L/ha water	Application to be made when there are sufficient unopened bolls present to obtain the desired yield. The defoliant can then be applied at a time interval 4–7 days later. Ensure thorough coverage of bolls.
Defoliation [#]	400–800 mL	Use in a tank-mix with a registered rate of Escalate® 500 or Escalate® UltraMax. Apply when there are sufficient unopened bolls to produce the desired yield. Total application volume should be no less than 20 L/ha. Ensure thorough and uniform coverage bolls and leaves.

[#]A subsequent application of a boll opener may be required to complete boll opening.

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Application timing

Defoliation should occur when the youngest boll expected to reach harvest is physiologically mature (Cotton CRC guidelines, 2013). This usually occurs when 60–65% of bolls are open. Another method of assessing physiological maturity is when there are 3–4 nodes of first position bolls above the highest cracked first position boll (last harvestable boll), also known as 'nodes above cracked boll' (NACB). Do not apply before sufficient mature unopened bolls have developed to produce the desired cotton yield. Bolls are mature when the seed coat turns light brown, the embryo fills the seed cavity with an abundance of creamy colour and cotyledons are well defined.

Treatment sequence

Light canopy: Apply Promote Plus 900 then apply defoliant 4 to 7 days later.

Moderate to heavy canopy: Apply a pre-conditioner and then Promote Plus 900 once sufficient leaves have dropped to expose the large bolls, usually 4 to 10 days later.

Restrictions

DO NOT apply to cotton under visible stress.

DO NOT pre-condition with sodium chlorate before applying this product.

DO NOT apply if rain is expected within eight hours of application.

DO NOT apply if mean day/night temperatures are expected to fall below 18°C.

DO NOT mix with hard (alkaline) water.



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1800 4 ADAMA

