



# Promote® Plus 900

## Product Overview

- PROMOTE® PLUS 900 is a high load formulation of ethephon – to aid in the accelerated opening of mature bolls and to help in defoliation of and pre-conditioning before defoliation of cotton
- Contains 900 g/L ethephon
- Helps improve harvest and increases recoverable lint yield and quality
- Convenient concentrated formulation with lower use rates and less storage and handling.

## 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
- PROMOTE® PLUS 900 moves systemically and is widely translocated around the plant.

## Standard Recommendations

				Use Rates
Crop	Situation	State	Rate/Ha	Critical Comments
Cotton	Defoliation, acceleration of boll opening	QLD, NSW only	1.6 L to 2.4 L in min. 20 L 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"> <li>• On Stressed plants</li> <li>• On a heavy crop with plenty of foliage present</li> <li>• If day/night temperatures are likely to drop below 22°C within 5 days of application.</li> </ul>
	Pre-conditioning of crop before a normal defoliation is to occur		1.04 L in min. 20 L 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 <sup>#</sup>		400 mL to 800 mL	Use in a tank mix with a registered rate of ESCALATE® ULTRA/ESCALATE®. 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. <i>#This mixture will also provide some acceleration of boll opening, however a subsequent application of a boll opener may be required to complete boll opening.</i>

## Application Timing

“Safe timing of defoliation is when the youngest boll expected to reach harvest is physiologically mature. 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), known as nodes above cracked boll (NACB)”, Cotton CRC, 2013.

Do not apply before sufficient mature unopened bolls have developed to produce the desired yield of cotton. 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.



*Ideal application timing for PROMOTE® PLUS 900 is when the youngest bolls expected to reach harvest are physiologically mature. Physiological maturity can best be assessed by cutting open a cotton boll and identifying if the seed coat has turned light brown. Also the embryo will fill the seed cavity with an abundance of creamy colour and the cotyledons will be well defined.*

## Treatment Sequence – Cotton

**Light canopy:** Apply PROMOTE® PLUS 900 then apply defoliant 4 to 7 days later

**Moderate to heavy canopy:** First apply a pre-conditioner, then apply PROMOTE® PLUS 900 as soon as sufficient leaves have dropped to expose the large bolls, usually 4 to 10 days later.

## Restraints

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 8 hours of application.

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

DO NOT mix with hard (alkaline) water.

Conversion Chart mL/Ha	
PROMOTE® 720	PROMOTE® PLUS 900
500	400
750	600
1000	800
1250	1000
1300	1040
1500	1200
2000	1600
2500	2000
3000	2400

## Features and Benefits

Features	Benefits
Highly concentrated 900 g/L formulation	More convenience through lower use rates, less packaging, freight and storage
Proven reliability in cotton boll opening and defoliation	Improves harvest efficiency and increases recoverable lint yield and quality
Highly compatible with other cotton defoliants.	The ideal mixing partner with ESCALATE® and ESCALATE® ULTRA to maximise recoverable lint yield and quality.

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