

# Improving Lentil Quality with



Enviroshield applies a natural, pod protection, polymer film, designed as an innovative harvest management tool used to reduce pod shatter and seed loss in a variety of prone crops including Lentils, Chickpeas and Canola. In addition, Enviroshield is used as a rain repellent to maintain seed quality and reduce the potential moisture damage (lentil staining and shrivelling). Enviroshield is a unique film-forming polymer formulation extracted from natural plant materials.

When applied at the correct growth stage, Enviroshield forms a soft micro-film around the pod, assisting with rain repellency to prevent moisture entry during the susceptible period of natural desiccation. This reduces stress on the pod seam and minimises the effects of shattering, seed staining and shrivelling from weather events. Thereby allowing for greater maturity to be reached prior to harvest.

Pod shattering can adversely affect crop yields and influence the time of harvest.



Photo: Paskeville  
Yorke Peninsula, S.A.

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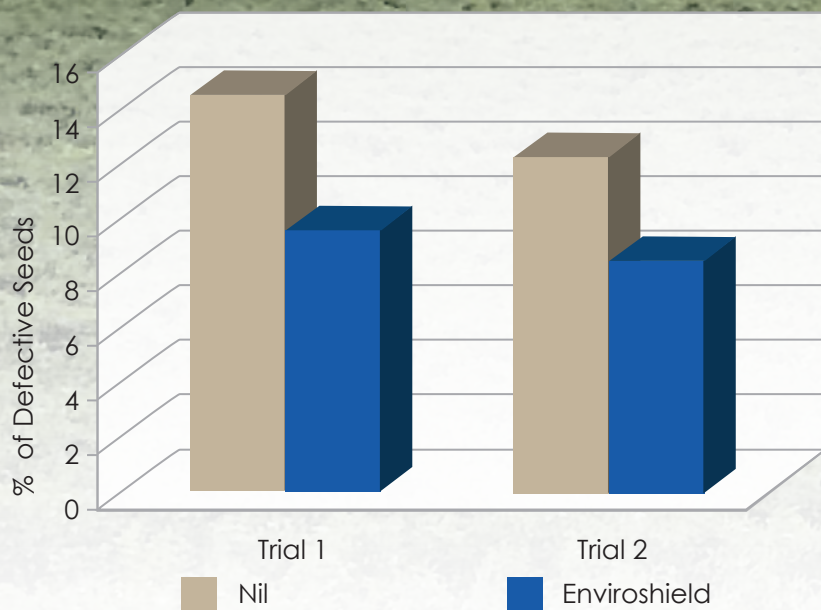


**"Marketing problems are created if receivable standards of 1% poor colour (due to disease, water staining, frost) are exceeded."** - Australian Pulse Bulletin, Lentil: Integrated disease management, 2015.

For best results, Enviroshield should be applied at 1 L/ha in 150 - 200 L/ha of water, approximately 3 - 4 weeks before harvest depending on the rate. The flexible micro-film formed on the pod by Enviroshield will help to prevent seed degradation caused by moisture contamination from rain events, until the lentil crop is harvested.

### % Total Defective Seeds In Lentils, Yorke Peninsula, S.A.

	Lentil Trial 1		Lentil Trial 2	
	Nil	Enviroshield	Nil	Enviroshield
Purity	99.85	<b>99.88</b>	99.61	<b>99.82</b>
Moisture	8.7	<b>8.9</b>	8	<b>2.37</b>
Screen	0.7	<b>0.47</b>	1.54	<b>0.47</b>
Wrinkles			4.6	<b>3.37</b>
Black Seeds	8.2	<b>1.2</b>	4.29	<b>1.79</b>
Poor colour (seed)	0.6	<b>0.35</b>	1.29	<b>1.31</b>
Poor Colour (kernel)	0.05	<b>0.05</b>	0.18	<b>0.21</b>
Inpods	4.98	<b>7.5</b>	1.82	<b>0.93</b>
Total defective Seeds	14.53	<b>9.58</b>	12.25	<b>8.46</b>



Nil treatment



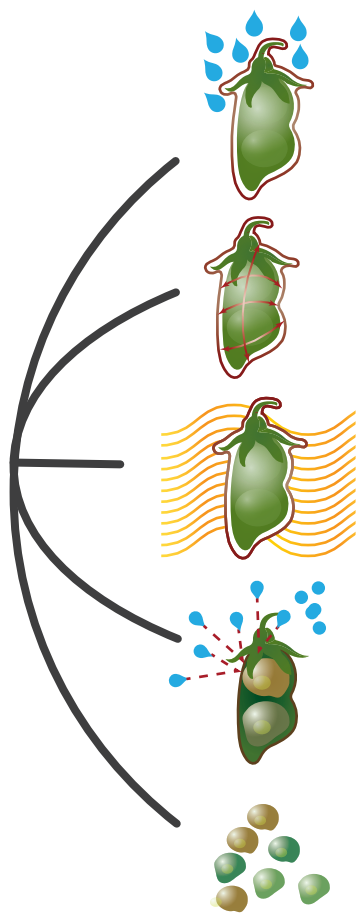
**Enviroshield®**



Enviroshield - Will cover the pod with a natural polymer film, which prevents entry of moisture into the pod. This will assist in reducing staining and wrinkles of the seed from late season rain events.



In addition, Enviroshield assists to hold the integrity of the pod reducing pod splitting and possibly pod drop, resulting in improved yield and quality. Enviroshield effectively reduces pre-harvest losses caused by 'normal' environmental conditions. Heavy thunderstorms, hailstorms and gales are not 'normal' but 'severe' weather conditions and the crop may still be adversely affected.



Designed to form an external coating on the seed pod that will help prevent moisture entering and downgrading the seed.

Forms an external flexible film on the pod (while green), and supports the developing pod as it expands to help prevent pod splitting and/or pod drop.

Enviroshield helps reduce pod drop caused by rapid drying, from hot, windy conditions.

Uneven seed colour / water staining will be reduced by Enviroshield assisting to repel water from the ripening pod.

The application of Enviroshield will assist when there is early and later maturing pods allowing for a more even harvest.

## Fungicide Hint:

When applying early fungicides to Lentils, use Hygro-Stic® to ensure the fungicide sticks on the leaf with rain events and also to reduce the potential of CropShock™. CropShock is the effect on the crop caused by pesticide applications resulting in the disruption of the leaf and pod cuticle, increasing the risk of moisture contamination. Thereby risking downgrading of the final sample.



Hygro-Stic – The pine resin polymer in Hygro-Stic is an ideal adjuvant to provide excellent fungicide and insecticide coverage and superior rainfastness. In addition, Hygro-Stic may provide some assistance with cuticle strength and prevent moisture entry into the pod.

Hygro-Stic is not washed off or diluted by rain once applied with the fungicide.

®



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