



# Fungal Damage

## How does it work?

Liquid seaweed is often used to reduce the effects of fungal damage in a wide variety of crops. There are four main effects.

### 1. Preventative action and reduction of damage.

There have been numerous studies where the use of liquid seaweed has reduced the severity of fungal attacks but not completely eliminated the infection. To be effective the liquid seaweed needs to be applied to the foliage on a regular basis. It appears to help if the seaweed is an alkaline "High G type", ie **GOLD** etc, which is made from the stems of seaweed. Products made by Fair Dinkum Fertilizers have been shown to significantly reduce the effect of late blight on potatoes.

### 2. Direct fungicidal action.

There are a number of substances in many liquid seaweeds which have direct fungicidal activity, (including some of the polyphenols). Scientists are divided on whether this direct fungicidal action is a major contributor to the observed effects.

### 3. Systemic acquired resistance.

Liquid seaweeds contain a substance which "fools" the plant that it is being attacked, and the plant mobilizes its defenses so that when attacked the natural resistance is already in place.

### 4. Synergistic effects with synthetic fungicides.

Overseas studies have shown that adding liquid seaweed to fungicide sprays has been shown to significantly reduce the amount of fungicide needed.

## Which crops?

Research has shown that liquid seaweed can lead to reduced fungal infections in a wide range of crops including potatoes, grapes, strawberries, lettuce, beans, celery and carrots.

## Types of fungal damage reduced;

Late blight (potatoes), target spot, botrytis, downy mildew, grey mould, celery leaf spot, powdery mildew, verticillium wilt.

## Directions for use - Application rates

Apply at 10-15 L/ha as soon as any fungi is noticed.

Reapply every 12-14 days.

Use **GOLD 600**, **GOLD 100** or **NB3** if fungal infection is present. **SUPERFINE** applications can be used where infection is expected to be slight.

	GOLD 600	GOLD 100	NB3	SUPERFINE
Potassium (K)	3.4%	3.4%	3.4%	3.5%
Sulphur (S)	0.8%	0.8%	0.8%	0.9%
Type	High G	High G	Moderate G	Low G
Sprayer Type	Coarse	Fine	Coarse	Fine
Comments	Alkaline.	Alkaline. Filtered to 100 micron	Alkaline.	Slightly acidic. Filtered to 100 micron



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## Fair Dinkum Fertilizers

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