

# Bio Kelp Guardian

Bio Kelp Guardian is a blend of liquid seaweed, electrolytes, phosphorus and potassium which can assist in increasing plant resistance to frost and recovery from the associated stress in grapevines.



- ✓ **Quality**
- ✓ **Investment**
- ✓ **Service**

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# Help Protect Your Investment Against Frost



## Bio Kelp Guardian™

Bio Kelp Guardian is a blend of liquid seaweed, electrolytes, phosphorus and potassium which can assist in increasing resistance to frost and recovery from the associated stress in grapevines.

In typical situations Bio Kelp Guardian™ may improve frost tolerance by as much as 1 to 3°C provided shoots are less than 10cm and up to 1°C at later stages of growth.

### Additional benefits from liquid seaweed, include;

- An increase in chlorophyll production
- Increased nutrient uptake
- Increased tree vigour
- Increased ability to deal with water stress.

*These four benefits are thought to arise by a combined action of plant growth regulators, auxins, betaines and cytokinins.*

Bio Kelp Guardian™ contains additional nutrients such as added potassium and phosphorus which have additional beneficial effects on plant water regulation and metabolism.

Bio Kelp Guardian™ can also be used, with care, to reduce heat stress. It should be remembered that no strategy is 100% guaranteed to eliminate frost damage.

### Guaranteed Analysis

Nitrogen (N):	0.1%
Phosphorus (P):	2.9%
Potassium (K):	9.2%
Sulphur (S):	0.5%
Kelp:	30.0%
Specific Gravity:	1.15 - 1.16 kg/L
pH:	9.4 to 9.8

### Typical Application Rates

#### Foliar

5 to 20 L/ha

#### Fertigation

If applied from bud burst to 10cm shoots -  
3 to 4 L/ha every 10- 12 days.

If shoots are great than 10cm -  
3 to 4 L/ha every 8-10 days or at least  
48 hours before a Frost event.



### Contact:

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