



# AgriSil® K50

Reg. No. B3756, Act 36 of 1947



# AgriSil® K50

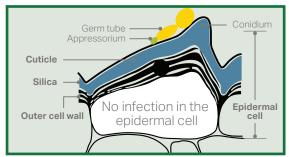
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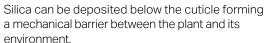
A potassium silicate-based liquid fertiliser for silica supplementation in all crops.

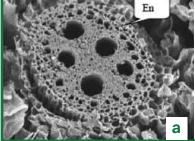
### Why use AgriSil® K50?

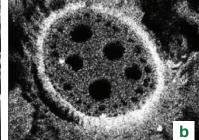
Features	Benefits	
An extremely soluble plant available form of silica.	Efficient uptake of silica with results achievable at comparatively low application rates.	
Silica strengthens plant cells.	Improved cell strength results in improved crop quality (e.g. reduced lodging in barley, shelf-life of flowers/fruit, etc.). Improved crop tolerance to abiotic stress, (eg. heat/cold/drought) and related crop losses, (eg. physiological fruit drop).	
Silica deposits around vascular tissue support vascular functioning.	Improved water use efficiency and better translocation of nutrients can result in better yield, especially under stress conditions.	
Silica is a 'catalyst' of natural resistance responses in plants.	Improved natural resistance to a wide range of pests and diseases making AgriSil® K50 an ideal partner in any IPM program.	
Agricultural input with no MRL limits.	AgriSil® K50 can be applied up to and during the harvesting period.	

## How does AgriSil® K50 work?









Silica deposits (far right) help reinforce the vascular bundles keeping them open and leading to more efficient transport of water and nutrients.

Silica also acts as a 'catalyst' of natural plant resistance mechanisms. This means that where there is sufficient silica available to the plant, resistance responses are more complex and occur quicker.

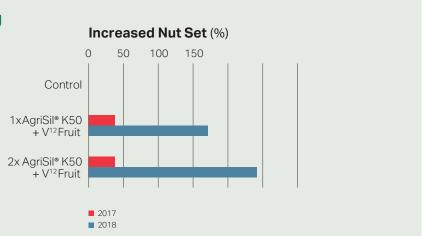
\***NB** - AgriSil® K50 does not function as a pesticide in any way as it has no direct effect on any pest or disease. It simply helps activate and enhance the plants own natural resistance mechanisms.

### **Trial data**

# Silica reduces stress resulting in improved fruit retention on fruit/nut crops

**Figures right:** The use of silica helps improve stress tolerance. In this particular trial (Macadamia) the improved stress tolerance resulted in a reduction in physiological drop and improved nut retention.

Data from a trial report by Subtrop Research (E. Joubert, 2018.)



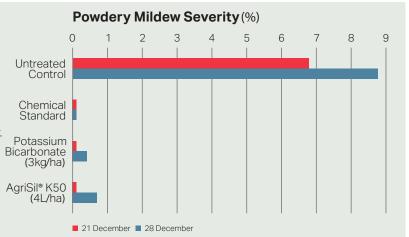
# Images right: Banana plants subjected to cold stress for 4 days at 4 °C. The right plant treated with AgriSil® K50 prior to stress illustrated greater tolerance to cold. Work done at UKZN. Untreated AgriSil® K50

# Silica improves natural resistance to pests and diseases

Figures right Silica supports the plant's natural immunity to pests and diseases. In this trial, on Crimson Seedless grapes, improved resistance resulted in a reduction in powdery mildew severity. This makes AgriSil® K50 an ideal addition to IPM programmes.

ASC Research (2017).

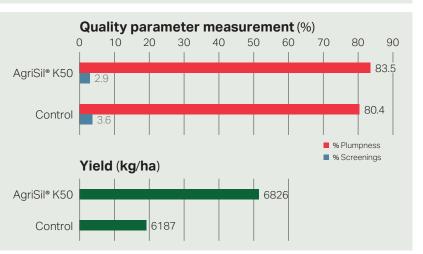
**Note**: AgriSil K50° is not a fungicide, the response seen in this trial is purely a result of improved natural resistance.



# Improved grain quality and yield in barley

**Figures right:** AgriSil® K50 improves stress tolerance in barley. In this particular trial this resulted in improved grain quality parameters and yield.

Data from SAB agronomy trials (B. Erasmus, 2015).





### Application instructions:

Crop	Method	Dose rate
Row crops (maize, wheat, etc.)	Foliar spray or through irrigation	0.5 L/ha to a maximum of 5 L/ha
Vegetables and small fruit (e.g. berries)	Foliar spray or through irrigation	depending on the crop.  Please refer to the registered label
Tree crops and vines	Foliar spray or through irrigation	for further details.
Nurseries and hydroponics	Through irrigation water	

Available in packs: 1 L, 5 L, 20 L and 1000 L

- AgriSil<sup>®</sup> K50 is highly alkaline (pH >11) and as such can cause compatibility problems related to this high alkalinity.
- Buffering agents Not all buffering agents are compatible with AgriSil® K50.
   Check for compatibility before making large tank mixes.
- Silica salts in general are highly reactive. Avoid mixing with products containing salts of magnesium, calcium, zinc and aluminium.
- Always conduct a jar test before mixing product or consult your distributor.
- Always dilute AgriSil<sup>®</sup> K50 with water before adding to the tank mix.

Marketed and Distributed by:

Manufactured by:







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