

Silicon is a beneficial plant nutrient, found in virtually all natural soils but not – until now – in hydroponic nutrient solutions. Silicon will strengthen the plant walls producing stronger healthier plants with massive root systems and increased resistance to pests and disease.

Liquid Silicon is highly beneficial to plants in the range of 20–50ppm in the nutrient solution. It is not included, and cannot be included, at these levels, in nutrient concentrates. It needs to be added as a separate component by the grower. Liquid Silicon can be added to nutrient tanks every time a fresh batch is made up.

Liquid Silicon has an important role in the uptake and vascular transport of mineral nutrients, and can greatly improve the mechanical 'strength' of the plant and its resistance to fungal diseases.

The addition of Liquid Silicon to nutrient solutions can greatly reduce the incidence and severity of fungal diseases including Botrytis (bud rot) and powdery mildew.

Recent research has demonstrated that raising the silicon concentration in hydroponic solutions produced thicker, whiter, healthier root systems and increased yields.

Silicon has also been shown to result in higher concentrations of chlorophyll per unit area of leaf tissue. This means that a plant is able to tolerate both lower and higher light levels by using more of the available light.

### The best pH UP

Liquid Silicon – like ALL silicon products – is very basic, it has a high pH, and can therefore be used effectively to raise the pH of hydroponic nutrient solutions. The extra silicon added is a bonus for the plants.

### Health & Safety

#### *Liquid Silicon needs safe and careful handling*

- Always wear gloves and eye protection when handling aggressive liquids
- Liquid Silicon should be diluted prior to use.
- Full safety information at [www.growthtechnology.com/safety.htm](http://www.growthtechnology.com/safety.htm)
- Full instructions at [www.growthtechnology.com](http://www.growthtechnology.com)

Liquid Silicon is available in the following sizes:  
250 ml, 1 litre, 5 litres, 20 litres

Full detailed instructions are supplied with every bottle.

Replacement instructions can be accessed from our website at [www.growthtechnology.com](http://www.growthtechnology.com), or just give us a call.



# LIQUID SILICON

**Liquid Silicon... the missing element**

**Strengthens plants**  
**Improves disease resistance**  
**Increases crop weight**

**Liquid Silicon**  
**Introduced to the European market by Growth Technology**

- Improves uptake of nutrients and transport through the plant.
- Strengthens cell walls, helping plants to resist attacks from fungi and mites.
- Increases chlorophyll production leading to darker green leaves and improved light collection.
- Increases uptake of available CO<sub>2</sub> and utilises the enhanced metabolic processes to deliver higher yields.
- Adds very useful extra potassium for enhanced flowering.



# Growth Technology

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