



Composition

| | %w/w |
|------------------------------|------|
| Silicon (SiO ₂) | 22 |
| Potassium (K ₂ O) | 9 |

Nutrition

Fungicide

Miticide

Insecticide

Characteristics

sonarSilic specially developed silicon and potassium formulation to improve plant growth, biomass.

Keys

Uptake of Nutrients

Particularly Nitrogen, Phosphorous, Potassium and Micronutrients

Resistance to Environmental Stress

- Reduced drought and heat stress. The deposition of Si in the plant tissues reduces transpiration rates.

- Reduce salt stress by inhibiting Sodium uptake.

- Alleviate toxicity of heavy metals: Iron, Manganese, Cadmium, Aluminium, and Zinc by regulating plant uptake

Post Harvest Life

Si can associate with cell wall proteins where it might exert an active production of defence compounds

Resistance to Disease and Pest

Si deposition in the epidermis tissues provides a physical barrier to pathogens and insects, allowing for a reduction in the frequency of chemical applications

Cell Structure

Si accumulated in the epidermal tissues increases the mechanical stability of the plant. Reduces the incident of lodging

Photosynthetic Activity

The improved structure produces stronger stems with more erect leaves, increasing its ability to capture light

Application

| Crops | Details |
|---|---|
| Annuals: Vegetables, cut flowers, nursery, strawberries, sugarcane, wheat | 2-3L/Ha or 300-500 ml/100L Foliar. Apply in a minimum of 600 L water. Apply every 10-15 days from first visible leaf onwards. For best results apply first sprays before leaf hardening of crop. Apply to sugarcane during the lead-up to the dryer months |
| Perennials: tree crops, vines, bananas, turf | 2-3L/Ha or 300-500 ml/100L Foliar. Apply in a minimum of 600 L water. Apply during leaf flush and after fruit set and every 10-14 days during disease events |
| Soil&Drip or hydroponic nutrient solution | 200ml/1000L 6-8 time s per crop cycle. Maximum of 8 L/Ha |

Silicon and postharvest life or produce

Researchers have shown that Silicon can inhibit ethylene which reduces the speed of aging and death of harvested plant parts. Silicon treated plant have also been shown to maintain their chlorophyll (green) content over a longer period. The end result is produce with better shelf life and appearance.

