CHARACTERISTICS

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

KEYS

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 estability 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

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, Cadmiun, 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

COMPOSITION

<table>
<thead>
<tr>
<th>%w/w</th>
<th>Silicon (SiO3)</th>
<th>Potassium (K2O)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30,0</td>
<td>10,0</td>
<td></td>
</tr>
</tbody>
</table>

DOSAGE AND APPLICATION

<table>
<thead>
<tr>
<th>Crops</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annuals: Vegetables, cut ‗o wers, nursery, strawberries, sugarcane, wheat</td>
<td>1-2L/Ha or 200-400 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</td>
</tr>
<tr>
<td>Perennials: tree crops, vines, bananas, turf</td>
<td>1-2L/Ha or 200-400 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</td>
</tr>
<tr>
<td>Soil&amp;Drip or hydroponic nutrient solution</td>
<td>200ml/1000L 6-8 time sper crop cycle. Maximum of 8 L/Ha</td>
</tr>
</tbody>
</table>

Packing

1L  5L  20L  200L