



SICOLEAF-HP High P **LIQUID NPK 3.26.12 + SA (salicylic acid)**

High performance liquid specialty fertiliser for the activation of the plant's thermos tolerance.

12/2017

1/ PRODUCT DESCRIPTION

SICOLEAF-HP High P LIQUID NPK 3.26.12 + SA is a clear brown Nitrogen - Phosphorus – Potassium solution containing amino acids, betaines and salicylic acid that should be used during and up to the pre-bud & flowering stages of a crop to ensure optimal bud formation, along with faster growth and heightened vigour. It is 100% soluble consisting of various phosphorous sources, including phosphite and salicylic acid and selected amino acids from vegetable source. This liquid supplement has greater solubility than most phosphate (P₂O₅) materials and is more readily available for plant uptake. Unlike phosphates, the phosphite ions (H₂PO₃) are plant friendly and are easily absorbed and incorporated into cells, they have excellent movement in both the xylem and the phloem. They move easily into leaf tissue, branches and roots.

Salicylic acid is a naturally occurring plant hormone. The dual action of phosphite and salicylic acid is known to boost the plant's immune system (ISR) and better withstand stress – both environmental and from disease. The complimentary nutrients in SICOLEAF-HP NPK 10.40.00+SA will encourage earlier bud development, increase growth & vigour, improve crop yield and provide overall pest along with pathogen resistance. The key ingredient is salicylic acid (SA), the active ingredient in aspirin. A natural plant hormone (phytohormone), SA is produced in small quantities by all plants. The beneficial aspects of salicylic acid on plant growth have been known for centuries. Recent university research has proven why and how it works. Essentially, when any plant is exposed to a stress such extreme heat or cold or to a disease pathogen, the plant primes its natural defence system by producing salicylic acid. This boosting of a plant's immune system is known as ISR or Induced Systemic Resistance.

2/ PRODUCT SPECIFICATIONS

*** PHYSICAL DATA:**

Appearance	Brown liquid
Odour	Neutral
Solubility in water	100%
Bulk Density	1.25-1.3 g per litre
pH 1:100 w/v	5.5-6.5

*** CHEMICAL ANALYSIS:**

Nitrogen (N)	3.0% w/v	30 g/l
Phosphorus Pentoxide (P ₂ O ₅)	26.0% w/v	260 g/l
Potassium Oxide (K ₂ O)	12.0% w/v	120 g/l
Zinc	0.1%	
Salicylic acid	0.5%	
Humic acid	1.0%	
Amino Acid	2.0%	
Betaines	1.0%	
Chelating agent	Lignopolycarboxylic acid	

This product contains 100% Biologically active products.

3/ SUGGESTED RATES OF APPLICATION

- **All Field Crops or Direct Seeded:** **SICOLEAF HP High P LIQUID NPK 3.26.12 + SA** placed under the seed can speed up early growth and strengthen young plants. Apply 8-12 litres per hectare banded in the seed bed, not in direct contact with the seed. On light textured soils (CEC 20 or below) use 8-10 litres per hectare. Do not apply under seed of cotton. Do not apply when there is insufficient moisture for germination unless using irrigation.

- Foliar application:

Vegetables: Use 200-300ml per 100 litre of water and apply with a medium spray over young plants at 3-5 leaf stage in open field. It may be effectively used as a direct spray from the first true leaf by banded application to encourage increased growth, plant vigour and resistance. Take care to calculate the sprayed area when applying to young plants. Nurseries and tree farms: Apply 200-300ml per 100 litre water. Repeat application every 30 days.

Constant Feeding: use 20-30 ml per 100 litres water

Greenhouse: Foliar spray only, apply 200-300 ml in 100 litre water and apply with an even coverage.

Greenhouse Propagation: 20-30ml in 10 litres water, apply at 2nd leaf stage and thereafter at 10-14 days intervals.

Any information in this publication is believed to be accurate and is given in good faith, but is for the customer to satisfy himself of the suitability for his own particular purpose. No representation, warranty or guarantee is made to its accuracy, reliability or completeness.



**PRODUCT INFO
& DATASHEET**

- **Soil Application:** 200-400 ml per 300 litres water

4/ COMPATIBILITY

Should be checked by mixing in a jar, the spray rates of **SICOLEAF HP High P LIQUID NPK 3.26.12 + SA** and chosen nutrient supplement. In Greenhouses, the biological compatibility should be checked by applying over a small area of crop first before embarking on the whole crop.

5/ PACKINGS

1 lt bottle, 10 lt can, 210 lt drum, 1000 lt IBC

6/ WAREHOUSING

Store dry, dark and cool. Store away from children, pets, livestock and foodstuffs.

7/ WARNINGS

Avoid spraying during the hottest hours of the day. In sensitive crops don't spray in full blooming. Keep the package well closed and far from the reach of children and pets. Avoid contact with eyes and skin. Wear suitable protective gloves & clothing. In case of eye contact, rinse abundantly with water and call a doctor.