foliar phosphite

Beet Raiser

PHOSPHITE-POWERED NUTRITION FOR SUGAR BEET

Beet Raiser is a concentrated foliar nutrient solution based on proven phosphite (PO_3^-) chemistry. Formulated to boost root development, nutrient uptake and stress resistance, Beet Raiser helps sugar beet crops achieve their full potential.

The early growth stage is crucial to sugar beet yield, as sugar accumulation begins from very early in the growth cycle. Adverse weather and low soil temperatures experienced during this key period can restrict root growth, nutrient uptake, plant health and ultimately yield.

The supply of vital nutrients combined with increased root development and more efficient uptake of soil held nutrients, ensures optimum nutrition during this important early phase. A well-fed crop with a robust root system, has an increased potential to maximise yield through healthy canopy growth and productive photosynthesis. Optimal nutrition also encourages more uniform growth and development of both leaves and roots.

Key Benefits

- Nutrient package tailored to beet crop requirements
- Boosts root development
- Promotes healthy leaf growth
- Improves photosynthesis
- Enhances plant uniformity
- Easy to use and low application rates

How it Works

Bespoke Nutrient Package
In response to sugar beet's relatively high nutrient demand, Beet Raiser supplies a balanced package of readily available macro, secondary and micronutrients at key growth stages.

Enhanced levels of **phosphorus** and **calcium** boost root development and support plant health by improving cell wall strength. **Magnesium** is a key constituent of chlorophyll and plays an important role in photosynthesis by assisting in the plant's absorption of carbon dioxide.

The rapid cell division involved in sugar beet development requires a plentiful supply of **boron** and any deficiency can lead to inhibited growth and increased susceptibility to disorders such as heart rot particularly on light, sandy soils. **Molybdenum** and **zinc**

Early root development in sugar beet is vital for optimal nutrition and yield.

are present in many different enzyme systems which play important roles in nitrogen metabolism and protein synthesis - both crucial processes in achieving the best quality and yield results in sugar beet.

Biostimulating Action

By combining these key nutrients with phosphite P, plant uptake and delivery is enhanced due to improved solubility and absorption. In addition, phosphite P has been shown to further stimulate root development so helping increase the uptake and mobility of soil-held nutrients.

ANALYSIS:

Nitrogen (N)	3.0% w/v	(30 g/l)
*Phosphorus (P_2O_5)	24.0% w/v	(240 g/l)
Potassium (K_2O)	6.0% w/v	(60 g/l)
Calcium (CaO)	5.0% w/v	(50 g/l)
Magnesium (MgO)	1.4% w/v	(14 g/l)
Boron (B)	0.8% w/v	(8 g/l)
Molybdenum (Mo)	0.07% w/v	(700mg/l)
Zinc (Zn)	0.8% w/v	(8 g/l)

***** 14% w/v Phosphorus Pentoxide (P_2O_5) present in the form of phosphite (PO_3^-)
10% w/v Phosphorus Pentoxide (P_2O_5) present in the form of phosphate (PO_4^-)

Beet Raiser is formulated as an easy to use pure solution with a pH value especially suited to effective crop uptake and maximum tank-mix compatibility.

When tank mixed with concentrated manganese flowable **Mn Plus,** the phosphite P component in Beet Raiser has also been shown to improve uptake and efficiency of the manganese treatment.

Application Rates & Timings

SUGAR BEET:

4-6 true leaves	Apply @ 1.5 l/ha to crops showing symptoms of nutrient-related stress.
6-8 true leaves	Apply @ 1.5 -3.0l /ha to maintain healthy crop development.

At later growth stages, for untreated crops suffering nutrient-related stress, apply @ 3.0 l/ha.

Beet Raiser is best applied as a foliar spray at water rates of 100-400 l/ha depending on the crop condition and stage of growth.

Pack Sizes: 10L

This product is physically compatible with a wide range of tank-mix partners. Check compatibility prior to adding to the spray tank. Consult your local advisor or Ilex EnviroSciences for specific recommendations. Do not apply in strong sunlight. Efficacy may be affected by crop health, growth stage and weather conditions. Ilex EnviroSciences accepts no liability for damage to treated crops.

Ilex EnviroSciences Limited
North Hangar, Wickenby Airfield, Lincoln LN3 5AX
T: +44 (0) 1673 885175 **F:** +44 (0) 1673 885163
sales@ilex-envirosciences.com