FRUITBOOST® PHASE 1
FRUITBOOST® PHASE 2

FRUITBOOST® PHASE 1 - Reg. No. B2923, Act 36 of 1947
FRUITBOOST® PHASE 2 - Reg. No. B2924, Act 36 of 1947

FruitBoost® phase 1 and FruitBoost® phase 2 boost the yield and quality of deciduous, pome and sub-tropical fruits.

Low fruit yields can be attributed to a number of factors, for example soil composition, environmental conditions, poor pollination etc. A main contributor is a lack of understanding of the physiology of the fruit tree and its unique nutritional requirements. To assist the producer in applying the correct nutritional product at the appropriate physiological stage of the plant, Nulandis® has formulated the FruitBoost® range of products.

FRUITBOOST®

Incorrect application of nutrients at any physiological stage can result in a stressed plant, vigorous growth at the wrong time which is to the detriment of fruit set and formation, and various induced nutritional imbalances within the plant. The cycle of fruit trees can be divided into two distinct phases (see overleaf), therefore two products have been formulated to correct nutritional imbalances during the two phases.

NULANDIS®
unlocking nature's potential

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FRUITBOOST® PHASE 1

Flower bud swell - full flower

Boron, Zinc, Potassium and Cytokinins are essential to phase 1 for the following reasons:

- Boron plays a particular role in the germination of pollen tubes, pollen tube growth and fertilisation during this stage, as well as cell division. A fine balance needs to be maintained as a surplus disturbs pollen germination while a deficiency results in retarded apical growth. The correction of Boron deficiency improves fruit quality, and therefore Boron levels must be correct from initial stages
- Starch accumulation occurs in the tree during this phase and Zinc is vital for the transformation of the carbohydrates
- Potassium is involved in starch synthesis and the translocation of carbohydrates, as well as other physiological processes, eg. water uptake and retention, phloem transport, etc.
- Cytokinins are involved in flower development and the initial bud break which is critical to this stage
- Auxins stimulate floral initiation.

Application:

Two foliar applications are required during phase 1, with the first one being at the bud swell ignition.

FRUITBOOST® PHASE 2

Fruit set and development

Boron, Zinc, Calcium, Auxins and Potassium are essential to phase 2 for the following reasons:

- Boron is required during this phase to maintain a relationship between Boron and Calcium, as neither must be deficient. Correctly maintained Boron levels also ensure fruit quality
- Calcium is required for the structure and permeability of cell membranes which prevent physiological disorders in fruit, which will arise due to a Calcium deficiency. This stage is very important, as Calcium uptake by fruit is optimal during the first six weeks of the fruit development
- Zinc is critical as it is involved in Auxin metabolism, with a Zinc deficiency resulting in a fruitlet abscission
- Potassium is required for the fruit development (enzymatic role), as well as other physiological processes
- Cytokinins, during this phase, supports cell division and the transport of nutrients
- Auxin stimulates fruit development and inhibits lateral bud formation.

Application:

Three foliar applications are required during phase 2, with the first one being at fruit set, followed by another, four weeks later. The final application is four weeks subsequent to the latter.

COMPOSITION

Element	FruitBoost® Phase 1	FruitBoost® Phase 2
Potassium (K)	75 g/kg (93.5 g/ℓ)	51 g/kg (62.9 g/ℓ)
Calcium (Ca)	-	20g/kg (24.7 g/ℓ)
Zinc (Zn)	7 930 mg/kg (9 888.7 mg/ℓ)	4 000mg/kg (4 940 mg/ℓ)
Boron (B)	400 mg/kg (498.8 mg/ℓ)	1 500 mg/kg (1 852.5 mg/ℓ)

Contains seaweed.

FRUITBOOST® PHASE 1:
Active Ingredients: Potassium (K) 75 g/kg (93.5 g/ℓ); Zinc (Zn) 7 930 mg/kg (9 888.7 mg/ℓ); Boron (B) 400 mg/kg (498.8 mg/ℓ); (Contains seaweed)

FRUITBOOST® PHASE 2:
Active Ingredients: Calcium 20 g/kg (24.7 g/ℓ); Potassium (K) 51 g/kg (62.9 g/ℓ); Zinc (Zn) 4 000 mg/kg (4 940 mg/ℓ); Boron (B) 1 500 mg/kg (1 852.5 mg/ℓ); (Contains seaweed)

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