GROFLOW® 47H

NPKS 12-4-22-0

Fill 'n' Grow. Balanced high analysis NPK solution with activated humic acid, for optimising plant growth & fruit development.

BENEFITS OF GROFLOW® 47H

- Activated humic acids, for enhanced nutrient uptake, plant growth & soils heath. Premixed in synergistic ratios, for optimized plant growth, flowering and fruit filling.

GROFLOW® – YOUR COMPLETE CROP NUTRIENT SYSTEM

1. **GROFLOW® 45H "START'N'GROW"**
   - Highly available phosphorus to promote root growth and plant stablishment from early season to flowering.
   - Humic acid maximises the nutrient availability and uptake.
   - Highly available phosphorus to promote root growth and plant establishment from early season to flowering.
2. **GROFLOW® 44H "GROW"**
   - Drives vegetative plant development. Improves the plant height without compromise stem thickness and the plant for flowering development conditions.
   - Humic acid maximises the nutrient uptake and reducing nutrient leaching.
3. **GROFLOW® 47H "FILL'N'GROW"**
   - Delivers high potassium relative to nitrogen to improve the flowering and fruit set.
   - A moderate amount of phosphorus is required to deliver the energy to support the flowering and fruit set.
   - Humic acid maximises the nutrient availability and uptake.
   - For green fruits Groflow® 47H is highly preferred to retain the green colour and should be conitnued for the final step.
4. **GROFLOW® 42H "THE FINISHER"**
   - Promotes fruit fill, sugars, fruit colour and improves the fruit size.
   - Highly recommended for fruits that undergo a colour change prior to harvest.
   - If you wish to add micronutrients and biostimulants most appropriate additives to the Groflow® range are: Supa Agri Mix and Booster ZnMo.

THE IMPORTANCE OF NITROGEN, PHOSPHORUS, POTASSIUM & HUMIC ACID IN THE GROFLOW SYSTEM

Nitrogen is the major building block in protein and chlorophyll. It is also essential for lipid and cytoplasm formation. Highly mobile in the plant, it is translocated and utilised in the growing tips.

Phosphorous assists in root development and energy production in plant cells to carry-out vital metabolic functions and nucleic acid biosynthesis. Phosphorus acts as a structural component of nucleic acids and phospholipids which form plant membranes. It is also important in cell division, photosynthesis, sugar and starch formation, energy transfer and movement of carbohydrates. Phosphorous deficiencies are very common in alkaline calcareous and acid soils, due to its binding with calcium in high pH soils and aluminium and iron in acid soils.

Potassium optimises water use efficiency and is the key nutrient to improve crop photosynthesis and sugar production in fruits. Potassium is very important in fruit bearing plants. Potassium regulates the electrolytes and turgidity of plant cells. Potassium occurs in the guard cells of the stomata and is therefore essential in respiration and transpiration. Potassium is required at all growth stages and a lack of potassium cannot be rectified with late applications.

Humic acid assists the penetration of nutrients into plants more efficiently and holds nutrients in the root zone. Humic acid, the active constituents of humus, plays an important role in nutrient availability and improves cation exchange. Microbial activity, water-holding capacity and soil structure all improve with humic acid application.

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GROFLOW® 47H

CHARACTERISTICS: pH: 9 – 10 ; Specific Gravity: 1.32 – 1.34

AUS Analysis W/V%: 11.7% N, 3.8% P, 22% K, Humic acid: Activated (proprietary).
International Analysis W/W%: 8.8% N, 6.6% (P_2O_5), 19.9% (K_2O), Humic acid: Activated (proprietary).

APPLICATION

BROADACRE: Such as Barley, Canola, Cotton, Grain legumes, Maize, Oats, Rice, Sorghum, Triticale, Wheat & Pasture crops. **Foliar: 2 – 5L/ha** in a minimum of 50 - 100 L final spray volume for ground rigs or 10 – 20 in a minimum of 25 - 50 L final spray volume for aerial rigs. Apply as required or during pod or grain fill, correct deficiency or to maintain potassium levels. In legumes apply during pod development.

DECIDUOUS TREE CROPS: Such as Apple, Almond, Cherry, Nectarine, Peach, Pear, Pistachio and Walnut. **Fertigation: 10 – 20 L/ha.** At 7 – 14 day intervals from fruit set to harvest where nitrogen and potassium are required. **DO NOT apply as a foliar to stone fruit during leaf growth.** Can be applied Post harvest prior to leaf drop.

EVERGREEN TREE CROPS: Such as Avocado, Citrus, Macadamia, Lychee. **Foliar: 5 – 8L/ha** in a minimum of 750 – 1200L final spray volume. **Fertigation: 10 - 20L/ha.** Apply at 21 day intervals during fruit or nut development. Do not apply to fruit containing copper residue as burn may result. Apply prior to application of copper.

FRUITING VEGETABLES: Such as Capsicum, Cucurbits, Eggplant, Tomatoes, Watermelons, Pumpkins. **Foliar: 5 – 8L/ha** in a minimum of 750 – 1200L final spray volume. **Fertigation: 7 - 20L/ha.** Apply during filling and ripening stage. Use where higher nitrogen and potassium levels are required. When practical use higher (more dilute) water rates.

LEAFY VEGETABLES: Such as Endive, Fennel Lettuce, Broccoli, Cabbage, Cauliflower, Kale and Herbs. **Foliar: 5 – 8L/ha** in a minimum of 750 – 1200L final spray volume. **Fertigation: 8 - 20L/ha.** Apply during active growth period, at heading stage on lettuce and leafy vegetables. Apply 2 sprays 14 days apart on onions during bulb formation. **DO NOT apply in heat of day.**

ROOT VEGETABLES: Such as Beetroot, Carrot, Leek, Onion, Potato, Radish, Sweet Potato. **Foliar: 5 – 8L/ha** in a minimum of 750 – 1200L final spray volume. **Fertigation: 7 - 20L/ha.** Apply as required during tuber, root & bulb fill. **DO NOT apply in heat of day.**

VINE and BERRY CROPS: Such as Blueberry, Strawberry, Raspberry, Wine and Table Grapes. **Foliar: 5 – 8L/ha** in a minimum of 1000 – 1600L final spray volume. **Fertigation: 10 - 20L/ha.** Apply at 14 day intervals as required. **DO NOT exceed 2x concentration or 2x hectare rate.**

Fertigation rates are dependent on seasonal nutrient demand.

Agitate contents well prior to application.

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

NOTE: The suggested rates of application of the Product are designed for typical Australian conditions and should be used as a guide only. Each farmer's climatic conditions, water quality, soil types, application processes and practices may differ and therefore necessitate corrections to ensure optimum results. Good agricultural practice requires that application be avoided under extreme weather conditions such as temperatures over 28°C, high humidity, frost, rain etc. It is recommended that when applying to a crop or area for the first time, or in combination with other chemicals, a small test area should be sprayed and observed prior to the total spray. Where possible, it is recommended that regular leaf tests are conducted to determine actual plant nutrient availability during each growth cycle. Soil tests at least once per year are essential.