

AMINO FEED N



NPKS 7-0-0-0, 40% Amino Acids

An organic, amino acid formulation of nitrogen, that is easily absorbed and used by plants

BENEFITS OF AMINO FEED N

- Organic nitrogen, wholly plant derived amino acids. Nitrate free for long & short term effective uptake.
- Contains highly plant available L amino acids. Key amino acids, favours chlorophyll & protein synthesis.
- Rapid rain fast properties for foliar applications.
- Acts as a biostimulant to enhance plant and fruit growth.
- It improves and reduces the impact of abiotic stresses such as water logging, draught, and extremes of temperature.
- It improves the soil's microbiology when fertigated.

THE IMPORTANCE OF AMINO ACIDS AND NITROGEN

Amino Feed N® is a highly concentrated source of nitrogen, rich in amino acids to directly meet the nitrogen demand of the crop. It is derived from the controlled enzymatic hydrolysis of plant material by bacteria and filtered to the micro fine particle size. The process does not alter the ratio of L-amino acid form, a highly available form that is quickly recognised by the roots for rapid absorption. The L-amino acids are directly accepted by the protein synthesis in plants to get processed by the plant cells into proteins, thereby, short-circuiting the nitrate to ammonium step in the nitrogen metabolism.

This step saves energy that is then redirected towards other metabolic processes to improve yield. Amino Feed N is a free flowing liquid formulation to replace relatively insoluble sources of nitrogen and its high N content satisfies the crop demand at critical stages of growth. Nitrogen drives crop growth and is essential for chlorophyll biosynthesis, photosynthesis and yield. Amino Feed N is applied either through overhead sprinklers, drippers, centre pivots or through a boom spray followed with irrigation to push it into the root zone. The application rates can be easily spread over the entire crop duration to derive the maximum nitrogen use efficiency.

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CHARACTERISTICS: pH: 4.0 – 6.5; Specific Gravity: 1.13– 1.17

AUS Analysis W/W%: 7.0% N, 40.0% Amino Acids.

International Analysis W/W%: 6.0% N, 34.0% Amino Acids.

APPLICATION

BROADACRE: Such as Barley, Canola, Cotton, Grain legumes, Maize, Oats, Rice, Sorghum, Triticale, Wheat & Pasture crops. **Foliar: 4 – 10 L/ha** in a minimum of 80 - 200 L final spray volume.* Best applied at 3 – 4 true leaf, may be used at other growth stages. For maintenance, use the higher rate. Best applied at late cabbage stage, may be use at other stages in Canola. For Cotton, apply to boost growth early in season & post waterlogging events.*Aerial application: use maximum practicable water rates. For cotton and pastures, increase dilution rates to 1:60.

DECIDUOUS TREE CROPS: Such as Apple, Almond, Cherry, Nectarine, Peach, Pear, Pistachio and Walnut. **Foliar: 5 – 7 L/ha** in a minimum of 750 - 1000L final spray volume. **Fertigation: 10 – 20 L/ha.** Apply to newly hardened spring flush or during active growing period and post harvest. For Stone Fruit: Dormancy spray only. **Do not apply to foliage or fruit.**

EVERGREEN TREE CROPS: Such as Avocado, Citrus, Macadamia, Lychee. **Foliar: 5 – 7 L/ha** in a minimum of 750 - 1000L final spray volume. **Fertigation: 10 – 15 L/ha.** Apply at 7 – 14 day intervals through to fruit set only and post harvest.

FRUITING VEGETABLES: Such as Capsicum, Cucurbits, Eggplant, Tomatoes, Watermelons, Pumpkins. **Foliar: 5 – 7 L/ha** in a minimum of 750 - 1000L final spray volume. **Fertigation: 10 – 15 L/ha.** Apply regularly, may substitute for urea or sulphate of ammonia. Can be used in organic production to supply N.

LEAFY VEGETABLES: Such as Endive, Fennel Lettuce, Broccoli, Cabbage, Cauliflower, Kale and Herbs. **Foliar: 5 – 7 L/ha** in a minimum of 750 - 1000L final spray volume. **Fertigation: 10 – 20 L/ha.** Apply every 14 days from mid crop though to harvest. Apply with compatible crop protection sprays.

ROOT VEGETABLES: Such as Beetroot, Carrot, Leek, Onion, Potato, Radish, Sweet Potato. **Foliar: 5 – 7 L/ha** in a minimum of 750 - 1000L final spray volume. **Fertigation: 10 – 20 L/ha.** Apply regularly, may substitute for urea or sulphate of ammonia. Can be used in organic production to supply N. Apply with compatible crop protection sprays.

VINE and BERRY CROPS: Such as Blueberry, Strawberry, Raspberry, Wine and Table Grapes. **Foliar: 3 – 4 L/ha** in a minimum of 450 - 600L final spray volume. **Fertigation: 10 – 15 L/ha.** First application: shoots 10cm long. Second application: 5% flowering. **DO NOT exceed 2x concentration or 2x the per hectare rate.** Use the higher fertigation rate post harvest. Note: foliar spray, **DO NOT use at concentrations less than 1:50.**

Fertigation rates are dependent on seasonal nutrient demand.

For best effect, foliar or soil surface sprays should be watered in, to translocate amino acids to the root zone.

Agitate contents well prior to application.

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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.