

# AGRI NS

***NPKS 32-0-0-7***



Readily available Nitrogen in Ammonium, Nitrate and Urea forms, along with Sulphur for effective uptake and sustained utilisation

## BENEFITS OF AGRI NS

- Readily available nitrogen as ammonium, nitrate and urea along with sulphur for effective uptake and utilisation.
- Ideal for foliar and soil applications with rapid rainfast properties on foliage.
- Thiosulfate sulfur gets converted into the active sulphate form in the soil. During this process cations are solubilised.
- Within the plant Sulphur helps in oil and protein biosynthesis in crops such as canola and others.
- Provides balanced nitrogen and Sulphur to all crops including sugarcane and cotton.
- Eliminates nitrogen and Sulphur deficiency syndrome. Can be used in place of ammonium sulphate.

## THE IMPORTANCE OF NITROGEN

Nitrogen is the key nutrient that drives growth. Nitrogen forms proteins and amino acids to increase growth and crop yield. It is the essential building block of plant structure and is vital to plant growth. Nitrogen is often lost from the soil through leaching, volatilisation and microbial action. Nitrogen helps in the amino acid metabolism, production of plant hormones, cell growth and enzyme production. These enzymes catalyse various metabolic activities leading to sugar, starch and oil production.

## THE IMPORTANCE OF SULPHUR

Sulphur is responsible for nitrogen conversion and assimilation. Sulphur is utilised in essential amino acids which make up proteins. Sulphur is also involved in the formation of chlorophyll. Sulphur improves essential oil production in nut and oilseed crops since it is actively involved in the protein and oil biosynthesis.

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CHARACTERISTICS: pH: 7.5 - 8.5; Specific Gravity: 1.29 - 1.31

AUS Analysis W/V%: 32% N, 7.2% S

International Analysis W/W%: 24.6% N, 5.6% S

## APPLICATION

**BROADACRE:** Such as Barley, Canola, Cotton, Grain legumes, Maize, Oats, Rice, Sorghum, Triticale, Wheat & Pasture crops. **Foliar: 3 – 5L/ha** in a minimum of 30 - 150 L final spray volume. **Fertigation: 15 - 20 L/ha.** Apply well before flowering in legumes. Foliar application at knee high in maize. Foliar application before panicle emergence in rice. Minimum dilution: 1 in 30 or max practicable water volume. Can be applied at seeding as soil injection. Apply in min 50L/ha water volume.

**CUT FLOWERS & ORNAMENTALS OPEN FIELD:** Such as Carnations, Gypsophilla, Roses & Statice. **Foliar: 3 – 5 ml/L**, spray volume 1000L/ha. Note foliar applications may leave a coloured residue. **Fertigation: 10 – 20 L/ha.** Apply when young plants are 3- 4 true leaf, repeat across the growing season as required to maintain nutrient level.

**DECIDUOUS TREE CROPS:** Such as Apple, Almond, Cherry, Nectarine, Peach, Pear, Pistachio and Walnut. **Foliar: 2 – 3L/ha** in a minimum of 300 – 450L final spray volume. **Fertigation: 10 - 20 L/ha.** Apply through soil in early growth stages and post-harvest to induce root proliferation. **DO NOT** apply as a foliar to stonefruits particularly apricots, nectarines and some varieties of peaches during leaf growth. Can be applied foliar at post harvest but before leaf drop.

**EVERGREEN TREE CROPS:** Such as Avocado, Banana, Citrus, Macadamia, Mangoes, Lychee. **Foliar: 2 – 3 L/ha** in a minimum of 300 – 450L final spray volume. **Fertigation: 10 - 20 L/ha.** Apply at 7 – 14 day intervals during active growth period or as required. **DO NOT** apply to fruit containing copper residue as burn may result. Apply prior to application of copper sprays.

**FRUITING VEGETABLES:** Such as Capsicum, Cucurbits, Eggplant, Tomatoes, Watermelons, Pumpkins, Zucchini. **Foliar: 3 – 5 L/ha** in a minimum of 300 – 500L final spray volume. **Fertigation: 10 - 20 L/ha.** Apply as starter and throughout season as required. When practical use higher (more dilute) water rates.

**LEAFY VEGETABLES:** Such as Endive, Fennel, Lettuce, Broccoli, Cabbage, Cauliflower, Kale and Herbs. **Foliar: 3 – 5L/ha** in a minimum of 300 – 500L final spray volume. **Fertigation: 10 - 20 L/ha.** Apply 10 – 14 days after emergence or 2 – 3 weeks after transplanting.

**ROOT VEGETABLES:** Such as Beetroot, Carrot, Leek, Onion, Potato, Radish, Sweet Potato. **Foliar: 3 – 5 L/ha** in a minimum of 300 – 500L final spray volume. **Fertigation: 10 - 20 L/ha.** Apply as required.

**VINE and BERRY CROPS:** Such as Blueberry, Strawberry, Raspberry, Wine and Table Grapes. **Foliar: 2 – 4 L/ha** in a minimum of 200 – 400L final spray volume. **Fertigation: 10 - 20 L/ha.** First application: shoots 10 cm long. Second application: 5% flowering. **Do not use at concentrations less than 1 : 50.**

If soil temperatures are below 15°C, foliar applications are advised instead of fertigation.

Fertigation rates are dependent on seasonal nutrient demand.

For best results, apply one-week pre or post phosphorus application.

Agitate contents well prior to application.

**DO NOT** apply in the heat of the day.

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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.