

# KONTRACE 7



*NPKS 0-0-0-3 + Trace Elements*

A complete blend of trace elements complexed for foliar application with rapid rainfast properties

## BENEFITS OF KONTRACE 7

- Ideal for foliar applications with rapid rainfast properties.
- Lignosulphonate complexed micro nutrients, released into leaf tissue for enhanced uptake.
- A balanced micro element treatment for crops.
- With added sulphur to maintain growth and chlorophyll production.

## THE IMPORTANCE OF TRACE ELEMENTS IN CROP PRODUCTION

Regular corrective foliage sprays of trace elements are essential for quality crop production. Trace elements facilitate optimum utilization of major nutrients in plants. Many trace elements function as essential parts of enzymes in the cell and regulate metabolic processes. Since there are intense negative interactions among trace elements, it is essential that a proper balance is maintained in a multi trace element product such as KONTRACE 7 to optimize their availability. Trace element deficiencies lead to abnormal growth patterns often associated with yield penalty, a concept widely known as the “Hidden hunger”. Foliar application of KONTRACE 7 satisfies the plant’s demand and eliminates the negative effect the adverse soil conditions has on the availability of trace elements. Stone fruits must essentially be fertigated or sprayed only at dormancy to avoid phytotoxicity. Fertigation at critical stages of growth meets the crop’s trace element requirements.

## LIGNOSULFONATES

- Organic complexing agent derived from lignin used in the wood and paper industry.
- Processed to reduce the higher molecular weight lignin molecules to a lower molecular weight compound with improved efficiency in binding trace elements.
- The carboxylic and phenolic groups in lignosulfonates form reversible complex with the metallic trace elements to uniformly release nutrients on the leaf surface.
- Non-corrosive to spray equipment and natural wetting agent.

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**CHARACTERISTICS:** pH: 3 - 4.5 ; Specific Gravity: 1.14 - 1.16

**AUS Analysis W/W%:** 1.3% Zn, 1.3% Mn, 1.3% Fe, 0.6% B, 0.2% Cu, 0.04% Mo, 2.6% S.

**International Analysis W/W%:** 1.1% Zn, 1.1% Mn, 1.1% Fe, 0.5% B, 0.17% Cu, 0.03% Mo, 2.2% S.

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## APPLICATION

**BROADACRE:** Such as Barley, Canola, Cotton, Grain legumes, Maize, Oats, Rice, Sorghum, Triticale, Wheat & Pasture crops. **Foliar: 2 – 4 L/ha** in a minimum of 100 - 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. Apply prior to flowering in Canola. \*Aerial application: use maximum practicable water rates.

**DECIDUOUS TREE CROPS:** Such as Apple, Almond, Cherry, Nectarine, Peach, Pear, Pistachio and Walnut. **Foliar: 2 – 3 L/ha** in a minimum of 200 - 300L final spray volume. **Fertigation: 5 - 7 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: 4 – 8L/ha** in a minimum of 400 - 800L final spray volume. **Fertigation: 5 - 7 L/ha.** Apply to newly hardened spring flush or during active growing period and post harvest.

**FRUITING VEGETABLES:** Such as Capsicum, Cucurbits, Eggplant, Tomatoes, Watermelons, Pumpkins. **Foliar: 3 – 6 L/ha** in a minimum of 300 - 600L final spray volume. **Fertigation: 5 - 7 L/ha.** Apply at regular intervals from flowering until harvest to maintain trace element levels. Fertigate regularly to replenish nutrients.

**LEAFY VEGETABLES:** Such as Endive, Fennel Lettuce, Broccoli, Cabbage, Cauliflower, Kale and Herbs. **Foliar: 3 – 5 L/ha** in a minimum of 300 - 500L final spray volume. **Fertigation: 5 - 7 L/ha.** Apply as required to maintain trace element levels. Apply with compatible crop protection sprays.

**ROOT VEGETABLES:** Such as Beetroot, Carrot, Leek, Onion, Potato, Radish, Sweet Potato. **Foliar: 2 – 4 L/ha** in a minimum of 200 - 400L final spray volume. **Fertigation: 5 - 7 L/ha.** Apply as required to maintain trace element levels. Apply with compatible crop protection sprays.

**VINE and BERRY CROPS:** Such as Blueberry, Strawberry, Raspberry, Wine and Table Grapes. **Foliar: 1 – 3 L/ha** in a minimum of 100 - 300L final spray volume. **Fertigation: 5 - 7 L/ha.** First application: shoots 10cm long second application: <5% flowering. Do not use foliar concentrations less than 1:50.

Fertigation rates are dependent on seasonal nutrient demand.

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.