

YLAD Living Soils *Putting life back into the land*



Soluble Humate Granules™

Soil Balancing

Cropping

Pasture & Animal

Foliar & Fertigation

Soluble humic acid in a versatile, user-friendly 2 to 5 mm granule.



Description

Dark brown, 2-5 mm granules containing soluble potassium humates. This product has a minimum of 70% potassium humates. The granules are ideally suited for addition with granular fertilisers, but they can also be readily dissolved without the dust factor associated with humate powders. The rapid solubility of these granules facilitates a successful fusion with soluble fertilisers which is particularly important for reducing the lock-up rate of soluble phosphate sources, stabilising urea, chelating and complexing minerals and buffering high sodium and heavy metals.

Benefits

- Biological Farmers of Australia (BFA) Registered Product 456AI. Humic acid is a powerful fungi promotant. Beneficial fungi (including VAM) are the missing link in many soils.
- Stabilises nitrogen and improves nitrogen efficiency (ideal as an additive with urea).
- Complexes phosphate to reduce lock-ups (ideal as an additive with DAP/MAP, etc).
- Natural chelating and complexing agent to help magnify nutrient absorption.
- Increases the permeability of cells to increase nutrient uptake by up to 40 %.
- Contains an auxin-like growth promotant that can enhance cell division and elongation.
- Can buffer the effects of excessive elements (particularly sodium), toxic chemicals and heavy metals.
- pH buffering capacity to help neutralise the problems associated with pH extremes.
- Features a CEC of 450 which aids in moisture and nutrient retention.
- Promotes better seed germination in a shorter time.
- Has a nature which assists in soil wetting.
- Promotes soil structure improvement by promoting fungi to create a crumb structure for better water and oxygen intake and improved root penetration.
- Microbe-friendly.



Packaging

25 kg, 1 tonne pallets of 25 kg bags,
800 kg bags

Application Rates

Broadacre Planting Blend:

2 – 5 kg per ha

General Purpose:

5% of total blend. i.e. 5 kg of NTS Soluble Humate Granules™ with every 100 kg of Urea, DAP, MAP etc, but do not exceed 10 kg per ha when banded or 20 kg per ha when broadcast

Typical Analysis w/w

Water Soluble Potassium

Humate (dry) min 70%

Potassium (dry basis) 8.5%

Solubility 85%

Particle Size: 2 -5 mm

Moisture 15%

Appearance: Black Granules.

DIY Liquid Humus Recipe

To produce a 6% potassium humate liquid, add 1 kg of Soluble Humate Granules™ very slowly to 10 L of water, under vigorous agitation. 10 - 15% of the humates are insoluble; let sit overnight and then siphon the soluble fraction from the top (avoiding insoluble sediment resting on the bottom). The insoluble sludge remaining is a valuable addition to composts.

Application Rates for 6% potassium humate liquid:

Foliar: 2 - 10 L per ha

Fertigation: 20 L per ha

Note: This 6% potassium humate recipe produces a concentrate with half the humic acid concentration of NTS Liquid Humus™ (12%).

Miscellaneous

- Microbes need a carbon source to digest nitrogen. Humates supply carbon and thus limit carbon-stripping from the soil.
- Can be used to detoxify chemicals or heavy metals.
- These granules magnify and stabilise most soluble fertilisers.
- NTS Soluble Humate Granules™ can be solubilised to create a DIY potassium humate liquid. However, there are several incompatibility issues when combining liquid fertilisers with potassium humate liquid. The liquid is incompatible with liquid Calcium Nitrate, Phosphate fertilisers and sulphate-based trace elements.
- Staining may occur on fruit or foliage therefore it may be necessary to avoid spraying just prior to harvest. May be unsuitable for cut flowers.