

# ecoNPK™

## Performance Fertiliser Optimised for Large-Scale Agricultural Production

- A unique blend of organic matter, natural compounds and synthetic boosters in pelleted form suited to producers not yet ready to make the transition to being an organic facility but looking for suitable alternatives that would help drive the improvement of soil quality in their area while maintaining higher nutrient availability to their crops.
- Superior soil conditioner with low leaching capabilities and high organic matter and carbon content in one product.
- Over time more nutrients are retained in the soil enabling producers to be more successful in their eventual transition to organic farming.

## Benefits of SOSBio's Pelleted ecoNPK™ Fertiliser

- Presence of molasses provides a nutritional energy source to natural or added microbial communities – thereby improving microbial action at the plant root surface and eventual availability and assimilation of otherwise locked organic nutrients.
- The adaptive release functionality of the product ensures that nutrients such as Nitrogen, Phosphorus and Potassium are retained in the soil environment for longer and only made available to the plants when required.
- The unique blend promotes healthier soil quality with each successive application in that the volcanic rock and humates improve soil health by reducing nutrient loss through leaching.
- A synthetic NPK nutrient boost through the addition of monoammonium phosphate, sulphate of potash and urea ammonium nitrate to provide those additional nutrients producers are accustomed to, which will ensure that higher levels of nutrients are added to heavily degraded agricultural soils. The addition of these synthetic nutrient sources in combination with organic matter will aid in improving soil health. Over time our volcanic rock and humates will work together to ensure more nutrients remain in the soil with each successive application, thereby regenerating the soil overtime and improving future outcomes when the producer is ready to make the change to a 100% organic system.

## Product Composition

- Proprietary pelleted formulation of molasses, humates, natural volcanic rock, manure compost, monoammonium phosphate, sulphate of potash and urea ammonium nitrate.
- Molasses as an attractant for and the promotion of healthy microbial environments in soil.
- Humates and volcanic rock for decreased leaching in addition to enhanced nutrient and water retention for the promotion of soil health.
- Composted manure to improve organic content of soil and provide quality nutrients for plants to assimilate.
- Synthetic nutrient boost using monoammonium phosphate, sulphate of potash and urea ammonium nitrate.

Typical Analysis (% unless specified otherwise)					
N	Nitrate	0.4	Carbon (+sugars)	Organic	14.0
	Ammonium	0.5			
	Urea	1.0	Ca	Organic	2.5
	Organic	2.0	Mg	Organic	0.75
	<b>Total N</b>	4.0	S	Organic	1.00
P	Organic	1.4	Fe	Organic	0.43
	Water soluble	1.6	Humates	Organic	0.13
	<b>Total P</b>	3.0	Cu	Organic	167 mg/kg
K	Organic	2.0	Zn	Organic	470 mg/kg
	As Sulphate	1.0			
	<b>Total K</b>	3.0			

## Proposed ecoNPK™ Application rates

Crop or plant type	ecoNPK™*	Area covered
Vegetables, fruit, orchards, turf and gardens  (Vary according to crop requirements)	50 - 100g	m <sup>2</sup>
	0.5 - 1 tonne	ha
Poor soils, sugar cane and other high nutrient demanding crops  (Vary according to crop requirements)	Up to 2 tonnes	ha
*For best results mix ecoNPK™ into soil prior to planting		
Nutrient content should not be compared directly to inorganic fertiliser due to the largely organic nature of the product		

## Summary information

- Boosted fertiliser product largely composed of organic matter
- Ideally suited to those planning to transition from inorganic to organic farming but wanting to improve soil health while maintaining good growth potential of crops
- Approved safety certification by third party shows absence of pathogenic material
- SDS available on request



ecoNPK™ is a product of Sustainable Organic Solutions Pty Ltd.  
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