

## Symbiotic Microorganisms (SMO)

### Beneficial Bacteria, Fungi and Yeasts

Symbiotic Microorganisms (SMO) are a diverse blend of naturally occurring beneficial bacteria, fungi and yeasts that work together to produce nutrient-rich soil, encourage healthy plant growth, and protect against pests.

### Soil and Plant Benefits

It is a natural fertiliser that enhances biodegradation of organic matter and improves soil quality. It prevents the growth of plant pathogens and toxic substances produced by fungi. It assists in removing pesticides and hazardous chemicals from food and soil.

### Additional Benefits

- It promotes septic tank waste breakdown and decomposes animal droppings quickly.
- It eliminates odours indoors, outdoors and in animal bedding.
- It improves the decomposition of a compost pile.
- It decomposes the enzymes in animal feed, increasing the nutritional value of the feed.
- It is a digestive aid that promotes growth and weight gain in animals.
- It assists in digesting fish waste in aquaculture and improves water quality, allowing fish to grow larger.

### How to use SMO:

#### ● Foliar spray/soil drench/compost tea

- **Foliar spray:** 5ml per litre of water (spray upper and lower surfaces of leaves)
- **Soil drench:** 5-10ml per litre of water
- **Compost tea:** 5-10ml per litre of water

#### ● Additional ways to use SMO

##### ● **Growth and digestive aid for animals**

- **Animal feed:** 10ml per litre of water. Spray the night before on feed.
- **Drinking water:** 10 to 20ml per litre of water. Add 30ml of this to their drinking water.

- **Reducing odours:** 10 to 20ml per litre of water. SMO “eats” the odour-causing germs.
- **Animal bedding:** 10ml per litre water. Spray on animal bedding to reduce smell and keep it fresh for longer. Spray until the bedding is slightly damp but not wet.
- **Keep the septic system clean and odour-free:** 20ml per litre of water. Pour into a septic tank monthly to suppress bacteria pathogens in human faeces.
- **Clear semi-clogged drains:** 20ml per litre of water. Use 100 to 200ml in the evening and allow the bacteria to do their work during the night.
- **Aquaculture:** Add 50ml per 700 m<sup>3</sup> of fish-containing water.

### When to apply

DO NOT apply in direct sunlight. It is best to use it late afternoon or early morning before the soil and leaves are exposed to direct sunlight. The microbes will attach to the leaf surface or enter the soil, feeding the plant and providing excellent organic fertilisation and resistance to pests and diseases.

### Storage and Shelf Life

Store in a cool, dark place out of direct sunlight. SMO contains living organisms, and pressure may build up. Unscrew the cap without removing it to release the pressure and secure it tightly. Shelf life is six (6) months when it is stored correctly.