

Keep out of reach of children  
Read label before use

# Nucleon™

## Liquid Fertiliser Enzyme Additive

Active Ingredients:

Lipase.....750mU/mL

Mannanase.....175U/mL

**1 Litre**

**SHAKE WELL**

Nucleon is a liquid enzyme additive developed for use with liquid fertilisers or as a stand-alone product. Nucleon enhances nutrient availability to soil microbes and broad nutrient acquisition by plant roots resulting in improvements in soil and plant health, growth and yield.

**Danger**

May cause an allergic skin reaction.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.



Avoid breathing mist/spray. In case of inadequate ventilation wear respiratory protection. Wear protective gloves. Contaminated work clothing should not be allowed out of the workplace and must be washed before reusing. Wash hands thoroughly after handling.

IF INHALED: if breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Dispose of contents/container in accordance with jurisdictional regulations.

Refer to Safety Data Sheet before use.

## PRECAUTIONS

**Storage:** Store in original container in a cool, well-ventilated area, out of direct sunlight, avoiding temperature extremes.

**Safety Directions:** The spray from this product may act as a skin or respiratory sensitiser. Avoid contact with the skin and breathing mist/spray. After each day's use, wash gloves and contaminated clothing.

**Product use:** Nucleon acts on an ongoing basis to both release sugar from mucilage secreted by root tips as well as process lipids found in the root zone of target crops. The combined activity enhances nutrient uptake by the plant and increases microbial activity around the root zone.

**Emergency Procedures:** Wear suitable protective clothing, including overalls and gloves. Collect spillage. Prevent further spillage and product from entering waterways. Prevent the product or spilled material from entering water bodies. Absorb spilled material with inert material and place in sealable waste container labelled for disposal. Wash down affected area with water and detergent. Absorb and collect washings and place in sealable waste container. Dispose of the container in an approved landfill or under at least 50cm of soil in a non-crop, non-pasture area away from water sources and homes.

### Container disposal:

Triple rinse containers before disposal. Add rinsings to spray tank. DO NOT reuse this container for any other purpose. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation, and tree roots. Do not burn empty containers or product.

**Product disposal:** Do not dispose of undiluted chemicals on site. Dispose of this product only by using according to the label, or at an approved landfill. DO NOT contaminate water supply with chemical or empty container.

## DIRECTIONS FOR USE: Horticultural Crops and Sugarcane

Nucleon is for soil application.

Nucleon is designed for use on all soil types.

Nucleon can be applied to dry soil if planting dry and will be available when the seed germinates.

Use Pattern	Rate	Critical Comments
At planting, in-furrow with starter fertiliser or water (or both) for all horticultural crops.	50-75mL/ha	Apply as a total in-furrow spray volume of 30L to 140L/Ha using fertiliser and/or water carrier.
Vegetative stages through dripline application with fertiliser or water (or both) for all horticultural crops.	50-75mL/ha	Dilute in sufficient application volume to apply through drip or micro-sprinkler irrigation. Apply a sufficient quantity of irrigation to extend product through the root zone.

		Refer to mixing and compatibility statements for order of mixing.
Nursery application to container grown seedlings, cuttings and transplants.	40mL/100L	Sufficiently irrigate nursery stock to best allow solution to saturate the soil / substrate
For side-dressing when applied within 15cm of the plants.	50-75mL/ha	When side-dressing apply with liquid fertiliser solution in spray volume of 30L to 140L/ha.
Sugarcane, both plant and ratoon	25mL/ha	Apply at planting or on ratoon cane when stool splitting occurs to apply nutrition.

### COMPATIBILITY:

**Check chemical mixture compatibility using a jar test using all products in proper proportion to establish physical compatibility prior to application.** This product is non-phytotoxic and compatible with many commonly used in furrow treatments including fertilisers, insecticides, pesticides, fungicides, micronutrients, and bio-stimulants. Can be mixed with most NPK fertilisers with a pH between 4.5 and 9 as well as water carrier solution. Half fill mix tank with water and begin agitation. Add products in this order, mixing thoroughly after each addition: adjuvants, pesticides, fertilisers then Nucleon. Fill tank with remainder of water and continue agitation until solution is completely mixed.

#### Batch Number:

#### Date of Manufacture:

#### Expiry date:

Manufacturer by: Elemental Enzymes Head Office, 1685 Galt Industrial Blvd, St Louis, MO, 6312, USA.

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This label complies with the National Code of Practice for Fertilizer Description and Labelling.