

# NBS BIO PRODUCTS



## *Product Catalogue*





## About Us...

At NBS, we are passionate about shaping the future of agriculture through regenerative practices that foster the health of the land, communities, and ecosystems. Our mission is to redefine farming by integrating regenerative principles into every aspect of our work, especially through our plant nutrition division, where we transform organic waste into nutrient-rich compost.

At NBS, we believe the most profound, long-lasting impact on plant health and nutrition comes from prioritizing regenerative agriculture and adopting circular economic practices. By creating high-quality fertilizers and soil stimulants, we aim to empower farmers and promote the resilience of our food systems.

At NBS, we are constantly pushing the boundaries of innovation to optimize farming practices, boost productivity, and minimize environmental impact. Sustainability is at the core of everything we do - from enhancing soil health and conserving water resources to combating climate change and supporting biodiversity. We develop tailored solutions that not only empower farmers but also improve rural livelihoods and contribute to sustainable development.

At NBS, we're not just cultivating crops, we are nurturing a brighter, greener tomorrow for generations to come.





# NBS PRODUCT LIST

## → SPECIALITY FERTILIZERS – LIQUID

- NBS ROOT MAX
- NBS YIELD BOOSTER
- NBS K-35
- NBS CMB
- NBS SILICARE
- NBS SIZE PLUS

## → SPECIALITY FERTILIZERS – SOLIDS

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- NBS SILICON FERTILIZER
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## → HUMATES AND BIO-STIMULANTS

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- NBS MICRO-SHIELD
- NBS SPEED COMPOST

## → NATURAL ADJUVANTS AND ADDITIVES

- NBS MAX SPREADER

# NBS ROOT MAX™

## (Organic Fertilizer for Foliar Spray)

Promotes vigorous root growth and luxurious shoot development

**NBS ROOT MAX™** is a new formulation specifically designed to promote rapid establishment in transplanted crops (vegetables, strawberries, tree tops etc.) This product can also be used as a very effective 'rescue remedy', during times of stress (frost, hail damage, heat, wind, transplant etc). NBS ROOT MAX has also proven to be a valuable tool to promote vigorous shoot development in all crops.

### Key Performance:

- Stimulate and improves root growth and branching
- Enhances shoot production
- Broad spectrum nutrition and plant tonic during stress periods



### Growth Stage:

- Planting

### Application Rates:

Crop	Application	Fertigation	Frequency
Vegetables & Seedlings	Soak roots in 1:200 dilution (1 L per 200 L)	3 L/ha immediately after planting	N/A
Tree Tuberstock	Soak roots in 1:200 dilution (1 L per 200 L)	3 L/ha immediately after planting	N/A
Strawberry Runners	Soak roots in 1:200 dilution (include NBS Microshield at 500g per 100 L of water)	3 L/ha immediately after planting	N/A

# NBS YIELD BOOSTER™

*(Organic Fertilizer Foliar Spray)*

**NBS YIELD BOOSTER™** is a Certified Organic Foliar Fertilizer for all types of crops and is a combination of various Organic Matters, Organic Carbon, Organic N-P-K and plant extract auxins.

## **NBS YIELDER BOOSTER Advantages:**

- Improves the availability of macro and micro-nutrients in the plant
- Increases growth of branches, flowering and fruiting
- Regularizes photosynthesis and nitrogen absorption
- Converts maximum flowers into fruit set
- Improves plant's SAR (Systemic Acquired Resistance)
- Improves fruit size and texture
- Improves fruit keeping quality and taste
- Increases harvesting period for more yield and weight
- It can be applied mixed with foliar fertilizers insecticides, fungicides and herbicides to use as foliar spray. Promotes the opening of the stomata on the leaves and ensures penetration of the foliar fertilizers and pesticides into the plant

## **Application:**

**NBS YIELD BOOSTER** can be used on grain crops, vegetables, fruit crops, lawns, turf, floriculture, ornamental plants. Can be mixed with other foliar spray products.

## **Dosage:**

For all crops, foliar spray of 2 to 4 ml per litre of water, depending on the crop's development stage. This can be used from the nursery stage through to harvest.



# NBS K-35™

## *(Organic Fertilizer for Foliar Spray)*

**High Analysis pH-buffered liquid potassium complexed with organic acids.**

Problems with potassium uptake are often pH-related, due to the alkaline nature of this essential element. NBS K-35 is a buffered super-available form of potassium, specifically designed for foliar fertilization of fruit, vegetable, and grain crops during the potassium-hungry fruit and seed-fill stages.

### **Growth Stage:**

- Vegetative growth
- Pre-flower, flowering, fruit set and fill

### **Key Performance:**

- 35% liquid K (non-nitrate or sulphate form)
- pH buffered potassium fertilizer for improved uptake
- balances nitrogen inputs for stronger growth and resilience
- Clear foliar spray formulation does not stain
- Enhances fruit/flower size and color
- Improves taste and shelf life

### **Application Rates:**

Vegetables foliar spray @ 1 L/100 L of water up to 5 L/ha equivalent

Orchard & Vineyards @ 1 L/100 L water up to 7 L/ha equivalent

Turf @ 1 L/100 L water up to 5 L/ha equivalent

Broadacre crops @ 2 L/ha in 120 L water. Apply before crop canopy closure



# NBS CMB™

*Stimulates rapid cell division and raises plant Brix by increasing photosynthetic efficiency.*

**NBS CMB** is a potent blend of organic minerals including calcium, magnesium and boron, natural complexing agents and plant growth promotants.

**Key Performance:** Maximise cell division in developing tissues, cell membrane functions, flower bud development, pollen ripening and successful fruit set. Increases chlorophyll density and synergises phosphorus use in the plant, assisting improved photosynthesis.

**Application:** Foliar Sprays: Start applying NBS CMB about 3-4 weeks prior to flowering event and aim for two sprays before buds are open. For continuously flowering plants, in addition to the above treatment, repeat every 2 weeks after flowering cycle has begun.

**Soil Treatment:** Apply by directed soil spray, sprinkler or fertigation at 2-4 L/acre every 2-3 weeks or more frequently when avoiding a calcium deficiency is critical to crop production.

Can also be used as a microbial stimulant while applying microbial bio-fertilisers and bio-pesticides.

**NBS CMB** is safe to use on all plants at recommended rates and compatible with most soluble fertilisers and pesticides. Jar test before application if not sure and treat a small section of plants first to check safety of mixtures.

**Dosage:**



Crop Application	Dosage	Comments
Vegetables, Flowers, Shrubs and Trees	Foliar: 1 L/100 L of water (max. 2 L/acre)	Vary rate with plant vigour. Start 3-4 weeks before flowering. Apply 2 sprays, 10-14 days apart.
Orchards & Vineyards	Foliar: 1 L/100 L of water (max. 2.8 L/acre)	
All fruit and vegetable crops	Soil: 2-4 L/acre Soil drench: 2 mL/litre	Do not apply with soluble fertilisers containing phosphates or sulphates.
Broadacre Field Crops	Foliar 0.8 L/acre	Use a min. 50 L water /acre, apply before canopy closure.
Nurseries and young	Foliar: 0.5 mL/L of water	Apply every 10-14 days, avoid hottest plants time of day
<b>NOTE:</b> Can be tank mixed with NBS K-35™ at 1.25 L/acre to enhance plant resilience and increase vigour.		

# NBS SILICARE™

## *(Revolutionary Rapid-uptake Silica Fertilizer)*

**NBS SILICARE** is Silica in 99.99% bio-available form. Silica is a recognized immune elicitor which reduces the requirement for chemical intervention. Boosts cell wall strength with associated enhanced protection from both insects and disease.

### **NBS SILICARE Advantages**

- Improves photosynthesis and plant yield
- Improves drought resistance
- Expect the post-harvest shelf life & transit life of the produce

### **Applicability:**

Apply 25 days after planting, before flowering and fruiting.

### **Dosage:**

**Foliar spray:** 100 ml per 100 L of water.



## NBS SIZE PLUS™

### *(Organic Fertilizer for Foliar Spray)*

**NBS SIZE PLUS** is an organic liquid fertilizer designed for foliar application to boost the size of fruits and vegetables. It is a unique blend of natural organic materials, plant extracts, and animal extracts, rich in Organic Potassium (K), Organic Nitrogen (N), and bio-stimulants from various plant and animal extracts. This formulation helps provide the essential nutrients needed to increase the size and length of fruits and vegetables. Fully water-soluble, it is quickly absorbed by leaves, fruits, and stems for maximum effectiveness.

#### **NBS SIZE PLUS delivers the following advantages in plants:**

- Increase in size of fruit and vegetable
- Increase in length of vegetable
- Ensure fruit cell division and cell elongation
- Increase weight of fruit and vegetable
- Better shelf life after harvest
- Increase water and sugar holding ability in fruits
- Good mobilization of plant sugars helps increase weight and sweetness of fruit
- Gives even sizes of fruits
- Can be applied through the roots for tuber crops like potato, carrot and sugar beet etc
- Applicable to all fruits and vegetables

#### **Application:**

**NBS SIZE PLUS** is applicable to all vegetables, fruit crops and tuber crops. Can be applied by foliar spray as well as soil application. Can be mixed with other foliar spray products and soil application products.

#### **Dosage:**

For all vegetable and fruit crops, apply 2 ml per liter of water from fruit setting to harvest. This can be applied through soil application at a rate of 500 ml per acre.



# NBS MICRO NUTRIENT™

## *(Organic Micro Nutrient Fertilizer)*

**NBS MICRO NUTRIENT** is an organic Amino Chelate Fertilizer for foliar spray as well as soil application. It is a combination of various natural organic matters, various plant extracts and animal extracts.

**NBS MICRO NUTRIENT** is a Complete Amino Acid Chelated Micro-Nutrients combination for delivering nutrients with maximum bio availability, tolerability and safety. Amino acid provides organic nitrogen which overcomes stress and provides readily available source of nutrients. We have standard w/w combination as Fe-2.5%, Mg-1%, Zn-3%, Cu-1%, Mn-0.1%, B-0.5%, Mo-0.1%, organic nitrogen varies from 6% to 8%.

**NBS MICRO NUTRIENT** delivers the following benefits for plant growth:

- Micro-nutrients act as enzyme activators in various systems, especially those involved in grain, seed, and fruit formation
- Crucial for water movement within the plant
- Essential for chlorophyll production and photosynthesis
- Regulates cell wall elasticity and influences cell wall formation and composition
- Vital for root metabolism, and contributes to strong, flexible stems
- Electrically charges seeds, promoting the magnetic attraction of other elements into the seed
- Enhances and speeds up germination across all crops
- Necessary for carbohydrate and nitrogen metabolism
- Speeds up plant maturity
- Associated with the growth hormone auxin; low levels can lead to stunted leaves and shoots
- Plays a role in protein synthesis rate



### **Application:**

**NBS MICRO NUTRIENT** is effective on grain crops, vegetables, fruit crops, lawns, turf, floriculture, and ornamental plants. It can be combined with other foliar spray products and applied via drip irrigation, fertigation systems, or manual drenching.

### **Dosage:**

For all crops, apply 1.5 g per 1 L of water as a foliar spray, according to the crop's growth stage. It can be used from nursery to harvest. For soil application, use 2.5 g per 1 L of water through drip irrigation, fertigation systems, or manual drenching.

# NBS SILICON FERTILIZER™

## *(Organic Granular Fertilizer)*

**NBS SILICON FERTILIZER** is an organic granular fertilizer for soil application. It is combination of silicon minerals extracted from natural mines, plus various plant extracts and animal extracts.

**NBS SILICON FERTILIZER** is produced with silicon analysis of approx. 40% and mineral calcium as 6%. NBS SILICON FERTILIZER will disperse and release in the soil as it comes in contact with moisture. The organic matter content will chelate soil nutrients and make them easily available to plants.

Silicon has an important role in the uptake and vascular transport of mineral nutrients and can greatly improve the mechanical 'strength' of the plant and its resistance to fungal diseases.

**NBS SILICON FERTILIZER**, an organic fertilizer, delivers the following benefits to plants:

- It is a complete Silicon Fertilizer
- Enhances plant's Systemic Acquired Resistance (SAR) against insects and fungal diseases
- Boosts Photosynthesis process in plants
- Strengthens the veins structure in the plant
- Enhances the cell wall structure, resulting in stronger plants and a longer harvesting period
- Produces shiny fruits and extends shelf life of the fruits

### **Application:**

**NBS SILICON FERTILIZER** is suitable for use on grain crops, vegetables, fruit crops, lawns, turf, floriculture, and ornamental plants. It can be mixed with other solid fertilizers and compost fertilizers. It can also be applied under mulching paper or by broadcasting.

### **Dosage:**

For all crops, apply 25 to 50 kg per acre based on soil requirements. For vegetables and tree crops, use 50 g to 100 g per plant or tree. It can be applied during soil preparation and side-dressed at various stages of plant development.



# NBS NEEM FERTILIZER™

## *(Organic Fertilizer for Soil Application)*

A high-quality organic fertilizer with the ability to prevent insect pest infestations.

### **Benefits:**

- Dual-function as both a fertilizer and pesticide
- When used with nitrogen fertilizers, it slows the conversion of nitrogen compounds into nitrogen gas, extending nitrogen availability to plants
- Excellent soil enhancer and conditioner
- Reduces the growth of soil pests and bacteria, aiding the recovery of crops damaged by nematodes
- Provides a slow release of essential macro-nutrients and trace elements for plant growth
- Boosts plant yield with regular use
- Rich in organic carbon, eco-friendly, and 100% safe for earthworms

### **Dosage:**

125 – 300 Kg per acre.



# NBS ReSilica™

## (Organic Fertilizer and Soil Conditioner)

**NBS ReSilica** is a fusion of organic carbon, calcium, silicon and Sulphur with plant biostimulants, and a background NPK to create a unique soil conditioner and fertilizer for turf.

**NBS ReSilica** is a natural product with a typical calcium analysis of 12%, silicon (SiO<sub>2</sub>) 8-10%, organic carbon 35-40% and sulphur 12%. The unique formulation provides key minerals for plant health and strengthens the physical and bio-chemical defences against biotic and abiotic stresses.

Calcium is vital for cell strength, membrane function, and uptake of essential minerals. Silicon helps prevent phosphorus lock-up and has an important role in the uptake and vascular transport of mineral nutrients. Silicon also greatly improves the mechanical “strength” of stems and leaves and resilience to fungal diseases and wear and tear.

Sulfur is a key nutrient in protein production and the formation of two key amino acids involved in plant immunity. Organic carbon in NBS ReSilica will feed beneficial soil microbes while helping to complex soil nutrients to extend their availability.

### Key Performance:

- A soil conditioner and fertilizer delivering key soil and plant nutrient
- Strengthens plant's physical and biochemical barriers to pest and disease damage
- Protects phosphorus from lock-up in acidic soil
- Improves water movement in xylem
- Assists in sodium management
- Improves plant's immune response towards insects and fungal diseases
- Provides a source of food source for beneficial soil micro-organisms
- Improves leaf presentation to the sun and increases photosynthetic efficiency



### Application:

NBS ReSilica is a granular product that can be broadcast on golf courses, sports turf, lawns, and ornamental landscapes. It can be used on its own or mixed with other granular fertilizers and compost-based fertilizers for more efficient application. NBS ReSilica will rapidly breakdown into fine particles in contact with moisture.

### Dosage:

Crop Application	Dosage	Comments
General Soil Application, Fairways and Tees	15 – 30 Kg per 1000 m <sup>2</sup>	For best results, apply during soil preparation and as a top-dressing. Be sure to water immediately after application to maximize its benefits.
Landscape and Fairway Trees	100 – 150 g/tree	Spread evenly around the tree

# NBS GREEN COMPOST™

Sustainable compost fertiliser and soil conditioner produced from recycled green waste under controlled conditions. Screened to remove larger particles and retain the humified portion that contains most of the essential plant minerals and beneficial biology.

Crop Application	Dosage	Comments
Soil Conditioner/Fertiliser	400-500 g/m <sup>2</sup> (4-5 T/ha)	Incorporate to 10 cm where possible to help release the minerals and inoculate the soil with beneficial biology.
As an Eco-Mulch	5-10 cm blanket application	Surface application up to 10 cm thick will retain moisture, control weeds and assist beneficial fungi establishment.

**NOTE :** Addition of an organic microbial bio-stimulant, like NBS ROOT-MAX™, will enhance the benefits of this living product and stimulate plant health.



# NBS BIOCHAR™

## *Enhancing Soil Health Through Carbon-Based Amendments*

**NBS Biochar** is a stable, carbon-rich material made by pyrolyzing organic biomass under low-oxygen conditions. A long-lasting soil conditioner, **NBS Biochar** is highly porous, has a large surface area, enhancing physical, chemical & biological properties, boosting microbial activity and offering mycorrhizal synergy.

Key Performance Soil Property Benefit of **NBS Biochar** Physical Improves soil structure and porosity, enhances water-holding capacity and reduces compaction and erosion Chemical Increases cation exchange capacity (CEC), buffers soil pH in acidic soils and reduces nutrient leaching Biological Provides habitat for beneficial microbes, supports microbial diversity and activity and improves nutrient cycling and soil respiration

### **Application:**

NBS Biochar should always be activated by charging with NBS beneficial biology, mineral fertilizers and biostimulants before use. The activation combinations are flexible and should be chosen to suit the crop or soil properties.

**Tip:** Integrate **NBS Biochar** into a holistic soil regeneration plan alongside composts, biology, and balanced mineral nutrition.

Activating **NBS Biochar** prior to application is essential to prevent temporary nutrient tie-up, enrich biochar with nutrients and microbial life and enhance soil biological activity.

### **How to Activate NBS Biochar:**

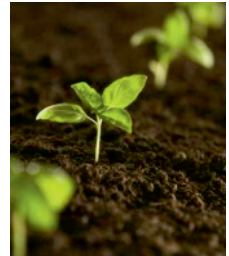
- Mix with compost, worm castings, or aged FYM
- Soak in compost tea or liquid fertilizers
- Blend with microbial inoculants or biological extracts
- Allow activation time before incorporation into soil

### **NBS Biochar and Mycorrhizal Fungi:**

Biochar promotes excellent synergy with mycorrhizal fungi by offering protective microhabitats for hyphal growth, enhancing fungal colonization of plant roots and improving phosphorus availability and nutrient uptake. Colonisation of plant roots supports plant stress tolerance and soil resilience

**Dosage:** Application Area **NBS Biochar** Rate Soil Inoculation only Minimum 200 kg/acre Field crops 2–4 tonnes / acre Horticulture / Degraded soils 4–8 tonnes / acre (up to 16 t/acre) Potting mix / Garden beds 5–20% by volume

**Note:** Always pre-charge NBS Biochar with NBS microbial inoculum or any local inoculum and NBS Sapphire Liquid or any liquid humic at label rates. Consider soil type, crop requirements, and biochar characteristics when determining rate.



# NBS SAPPHIRE GRANULES™

## *(Organic Fertilizer for Soil Application)*

This superior quality leonardite outperforms competing products. These granules are ideally suited for addition with granular fertilizers, but they can also be readily dissolved to make a liquid that can be added to dissolved urea. The solubility of these granules facilitates a successful fusion with fast-release fertilizers, which is particularly important for reducing the the lock-up rate of dry-applied soluble phosphate sources, stabilizing urea, chelating and complexing minerals, and buffering high sodium and heavy metals.

### **Key Performance:**

- Humic acid from leonardite is a powerful promoter of beneficial fungi
- Stabilize nitrogen and improve nitrogen efficiency (ideal as an additive with urea)
- Promotes root growth and branching making a larger root volume

### **Growth State:**

- Pre-plant
- At planting
- Vegetative growth stage
- Pre-flower, flowering, fruit set and fill

### **Application Rates:**

**Broadacre Planting Blends:** Mix with fertilizer at 5-15 kg per hectare (2-6 kg per/acre)

**General Purpose:** 5% of total blends – i.e. 5 kg of NBS Sapphire Granules with every 100 kg of urea, DAP/MAP etc. but do not exceed 20kg/ha when banded or 50 kg/ha when broadcast.



# NBS BIO STIMULATOR™

## *(Organic Granular Fertilizer for Soil Application)*

**NBS BIO STIMULATOR™** is an organic granular fertilizer for soil application with organic matter up to 80% and organic carbon more than 35%. NBS Bio Stimulator is dispersed in the soil in contact with moisture and nutrients are released to soil. The organic matter content chelates soil nutrients making them more easily available to plants. This way NBS BIO STIMULATOR content also acts as a controlled nutrient releasing agent. NBS Bio Stimulator content also acts as food for beneficial soil micro-organisms, restoring natural cycles and organic matter decomposition leading to healthier nutrient releasing agent. NBS Bio Stimulator builds plant immunity to fight against various plant diseases.

**NBS BIO STIMULATOR** is the best choice to apply it under mulching paper as its slow release can release nutrient to plant for more than two months. NBS BIO STIMULATOR is best organic fertilizer for grain crops and very effective on all vegetables and fruit crops.

### **Application:**

**NBS BIO STIMULATOR** can be used on grain crops, vegetables, fruit crops, lawns, turf, floriculture, ornamental plants. Can be mixed with other Fertilizers. Can be mixed with compost fertilizers. Can be applied under mulching paper. Can be applied by broadcasting.

### **Dosage:**

For all crops, apply 25 kg to 50 kg per acre as per soil requirements. Can be applied at soil preparation time and side-dressed at various development stages of plant.

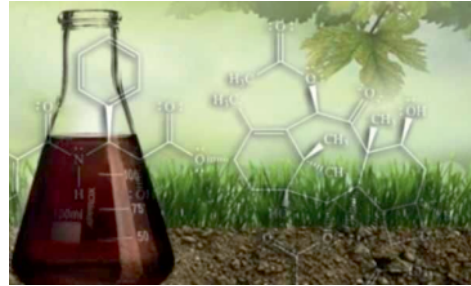


# NBS SAPPHIRE LIQUID™

A concentrated liquid carbon for use as a fertiliser stabiliser and magnifier, plant growth promoter, soil life activator and soil conditioner.

### Key Performance:

- Helps stabilise liquid formulations of urea and other sources of nitrogen.
- Complexes soluble nutrients and holds against leaching
- Buffers sodium in soil and water
- Promotes and feeds beneficial soil fungi
- Improves soil structure and water-holding capacity
- Promotes root growth and branching making a larger root volume.
- Increases nutrient uptake
- Easy, convenient measure and mix



### Application:

**NBS SAPPHIRE LIQUID** is ideally suited for liquid application to golf courses, sports turf and landscapes to extend the availability of soluble minerals and help reduce fertiliser application rates by at least 15-20%.

**NBS SAPPHIRE LIQUID** facilitates a successful fusion with water-soluble nutrients increasing uptake and reducing the losses due to leaching and lock-up in soil reactions. Used regularly in saline irrigation waters, it will buffer sodium and complex heavy metals, reducing crop stress and soil contamination.

Agitate the spray tank during application. Do not pre-mix or store in diluted form. Seal lid/cap immediately after use.

### Dosage:

Crop Application	Dosage	Comments
Fairways and Tees	20 L/ha per application	Apply monthly for best results. Avoid mixing with strongly acidic fertiliser solutions or pesticides as efficacy may be reduced.
Foliar Sprays	2 L/100 litres per application (up to 5 L/ha)	Some spray residues may remain on leaves. This is not harmful and the next irrigation or rainfall will wash residues into the soil where the product remains active.

# NBS BUG-SHIELD™

*(Organic Botanical Pesticide)*

**NBS BUG-SHIELD** is an Organic Botanical Pesticide and also effective plant food. It's a combination of various Plants, Seeds and Animal Extracts.

**NBS BUG-SHIELD** is an organic pesticide effective on all types of insects including white fly, mealy bug, mites, jassids thrips, army worms, round worm, thread worm caterpillar, borer larvae, paddy larvae and all other similar sucking pests.

Sucking pests pierce plants with slender, sharp-pointed mouth parts and suck the plant sap. Withdrawal of the sap results in minute white, brown, or red spotting on the leaves, fruits, or stems of the plant. It may also cause curling leaves, deformed fruit, general wilting, browning, and drying of the entire plant. Sucking insect pests are common vectors of serious plant virus diseases so control is essential to avoid virus problems.

The stem borer larvae bore into the base of the plants during the vegetative stage. On older plants, they bore through the upper nodes and feed toward the base.

**NBS BUG-SHIELD** delivers the following advantages in plants:

- Very effective on all types of Insects, Works as Broad-Spectrum Pesticide.
- Increases plants SAR (Systemic Acquired Resistance).
- Can be sprayed on the soil at Soil Preparation Stage to control soil insects
- Suitable for all stages from nursery to harvesting.
- Does not carry any residue in harvest.

## Application :

**NBS BUG-SHIELD** can be used on grain crops, vegetables, fruit crops, lawns, turf, floriculture, ornamental plants. Can be applied in combination with other pesticides and other organic products for foliar spray as well as soil application.

## Dosage:

All Crops from Nursery to Harvest.

Foliar application 2 ml per litre of water according to crop development stage and insect attacks. Soil application through drip irrigation, fertigation system or manual drenching at 2 L per 200 litre of water.



# NBS BIO-DEFENDER™

Naturally improve health and quality of soil repopulating with naturally occurring, beneficial fungal species.

**NBS BIO-DEFENDER** is a talc-based formulation containing the beneficial fungal species *Beauveria bassiana*, *Metarhizium anisopliae*, and *Lecanicillium lecanii*. NBS BIO-DEFENDER contains beneficial microbes that assist in the natural management of insect pests without the use of toxic chemicals. Insects will stop feeding shortly after application and die within 4-7 days. Safe to the environment, children and pets with NO withholding period on food crops.

### Key Performance:

- A powerful probiotic
- Product can be used right up to harvest
- Based upon naturally occurring fungi
- Applicable at all developmental stages

### Growth Stage:

- Pre-planting
- Planting
- Vegetative Growth
- Pre-flowering, Flowering, Fruit Set & Fill



### Application Rates:

Soil Drenching Rate	Foliar Spraying Rate
5 g/Litre of water (over 10 m <sup>2</sup> )	3 g/Litre of water
DIRECTIONS FOR USE	
Apply to soil during soil preparation or at planting. Repeat every 2-4 weeks or when warm conditions favour insect breeding.	Spray foliage and stems to run-off. Repeat fortnightly as a protectant, or more frequently to break pest lifecycle.

# NBS EMULSIFIED NEEM OIL™

## *Botanical Pesticide cum Fungicide cum Natural Adjuvant*

**NBS EMULSIFIED NEEM** is certified organic botanical agriculture input which is a combination of neem seed extract and natural emulsifier. Effective on many types of insects, and fungal diseases with the added benefit of being an organic natural adjuvant.

**NBS EMULSIFIED NEEM** is an Organic Certified Botanical insect repellent act as insecticide, pesticide, fungicide and also act as effective organic agriculture adjuvant. Spectrum is very effective on all types of Worms such as Cotton Boll worm, Caterpillar, Army Worms and leaf miners other similar Insects.

**NBS EMULSIFIED NEEM** delivers the following advantages for plants:

- Broad-spectrum pesticide, very effective on many types of Insects
- Increases plants SAR (Systemic Acquired Resistance)
- Can be sprayed on the soil at Soil Preparation Stage to control soil insects and fungus
- Form protective layer on plant so fungus cannot grow on plant
- Suitable for all stages from nursery to harvesting
- Does not carry any residue in harvest
- Act as natural adjuvant and increase efficacy of other products applied together with Neem Oil

### **Application:**

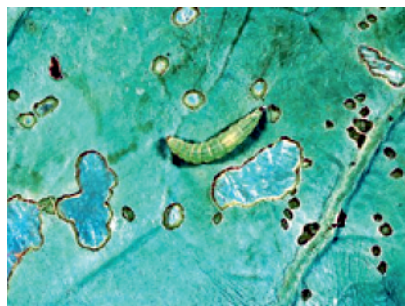
**NBS EMULSIFIED NEEM** can be used on grain crops, vegetable, fruit crops, Banana, Papaya, Lawns, turf, floriculture, ornamental plants. Can be applied in combination with other pesticides and other organic products for foliar sprays well as soil application.

### **Dosages:**

Insect Management for all crops at 1ml to 2ml per litre of water according to crop development stage and fungus attacks. Ensure thorough mixing with water before application.

In tank Mixes as an adjuvant can be used at 1ml per litre of water with many combinations of fertilizers and pesticides.

Can be applied from nursery to harvesting at 400ml per 200L of water for soil application (with a maximum rate of 2 L/ha) through drip irrigation, fertigation system or manual drenching.



# NBS BIO-GUARD™

Botanical based Pest Management featuring Powerful Penetrant and Wetting Capability

**NBS BIO-GUARD** is an organic, botanical input combining the multi-mode action of emulsified neem oil with the wetting, penetration and suffocant capability of a natural silicone-based adjuvant. The unique mode of action is effective on many types of insects and exhibits suppression of some fungal diseases with the added benefit of being an organic natural adjuvant and soil wetter.

Spectrum is very effective on all types of caterpillars and insect larvae such as Cotton Boll worm, Army Worms and leaf miners other similar Insects. The multiple modes of action are enhanced by systemic activity with soil application and root uptake.

**NBS BIO-GUARD** in a program, also controls a wide range of beetles, chewing and sucking insect pests and forms a protective layer on leaves preventing many fungal pathogens from establishing on plants.

### Key Performance:

- Broad-spectrum pesticide, effective on many types of Insects
- Increases plants SAR (Systemic Acquired Resistance)
- Can be sprayed on the soil at Soil Preparation Stage to control soil insects and fungus,
- No withholding or re-entry period after application.



### Application:

**NBS BIO-GUARD** can be used on all lawns, golf courses, sports turf and ornamental landscapes to manage leaf-feeding and soil borne insect problems. Compatible with a wide range of fertilizers and pesticides for foliar and soil application.

**NOTE:** Due to the unique non-toxic mode of action, insects may not die immediately, however growth and development, feeding habits or mating capacity are seriously impaired. Regular applications or follow-up treatments may be required to break insect lifecycles and gain season long control.

### Dosage:

Crop Application	Dosage	Comments
Foliar Spray	2.5 mL/L of water	Cover all sides of leaf and spray to run-off. May require follow-up treatment. Do NOT exceed 2 L/ha.
Soil Application	2.5-3.0 l/ha (1.0-1.25L/acre)	Systemic through root system. May require follow up treatment. Use higher rate on heavier soils and where insect infestations are well-established.

Ensure thorough mixing with water prior to application. Avoid very cold water or test first.

# NBS BIO PROTECT™

## *(Organo-Mineral Fungicide)*

**NBS BIO PROTECT** is an Organic Certified Fungicide. A recent concept in fighting plant disease, NBS BIO PROTECT combines new technology of Organic Extracts and Natural Minerals to control many fungal pathogens while improving plant immunity to fight against fungal Disease development. NBS BIO PROTECT breaks down to plant food nutrients with zero plant residues.

Sources of fungal infections are infected seed, soil, crop debris, nearby crops and weeds. Fungal pathogens are spread by wind and water splash, and through the movement of contaminated soil, animals, workers, machinery, tools, seedlings and other plant material. NBS BIO PROTECT is rich in Phosphorus and Potassium so also acts as great fertilizer for plants Phosphorous, is essential for the general health and vigour of all plants. Some specific growth factors that have been associated with phosphorus are as follows.

- Stimulated root development
- Increased stalk and stem strength
- Improved flower formation and seed production
- More uniform and earlier crop maturity
- Increased nitrogen N-fixing capacity of legumes
  - Improvements in crop quality
- Increased resistance to plant diseases
- Supports development throughout entire life cycle.
- Increases root growth and improve drought resistance
- Activates many enzymes systems
- Aids in photosynthesis and food formation
- Increases protein content of plants

### **Application:**

**NBS BIO PROTECT** can be used on grain crops, vegetables, fruit crops, lawns, turf, floriculture, ornamental plants. Can be applied in combination with other fungicides and other organic products for foliar spray as well as soil application.

### **Dosage :**

For all crops 2 gm per litre of water according to crop development stage. Can be applied from nursery to harvesting. Soil application at 500 gm per acre through drip irrigation, fertigation system or manual drenching.



# NBS PSEUDO TECH™

## *For the Control of Certain Root Rots and Foliar diseases*

Pseudo Tech naturally protects plants from serious disease including damping-off, root rot, wilt, downy mildew and gummy stem blight. When applied regularly by foliar sprays and soil drenches, NBS Pseudo Tech stimulates plant immunity while suppressing disease development. Safe to the environment, children and pets with NO withholding period on all crops.

### **Application Rates:**

Soil Drenching Rate	Foliar Spraying Rate
5 g/Litre of water (over 10 m <sup>2</sup> )	3 g/Litre of water
DIRECTIONS FOR USE	
Apply to soil during soil preparation or at planting. Repeat every 2-4 weeks or when conditions favour the spread of soil diseases.	Spray foliage and stems to run-off. Repeat fortnightly as a protectant, or more frequently if disease is present.
For best results, mix a measured amount of NBS Pseudo tech in water and allow to soak for up to 1 hour before application. Make spray dilution and maintain good agitation during application	
<b>Optional:</b> Addition of an organic microbial bio-stimulant, like <b>NBS ROOT MAX</b> , will enhance the benefits of this living product and stimulate plant health.	



## NBS MICRO-SHIELD™

Beneficial fungi to improve the balance between desirable and undesirable microorganisms on the leaf surface and in the soil.

**NBS MICRO-SHIELD** is a talc-based formulation containing the beneficial fungal species *Trichoderma harzianum*, *Trichoderma Lignorum* and *Trichoderma Koningii*, which promote plant and root growth. Regular use of NBS Micro-shield™ foliar sprays and soil drenches will stimulate healthy root growth and suppress disease development. Micro-shield also assists with humus formation. Safe to the environment, children and pets with NO withholding period on all crops.

### Key Performance :

Root-zone balance is coupled with plant growth promotion associated with *Trichoderma* metabolites NBS MICRO-SHIELD can be applied to seeds, transplants, bulbs, cuttings, grafts and established crops.

No withholding periods

### Growth Stage:

- Pre-planting
- Planting
- Vegetative Growth
- Pre-flowering, Flowering, Fruit Set & Fill



### Application rates:

Soil Drenching Rate	Foliar Spraying Rate	Nursery Use
5 g/Litre of water (over 10 m <sup>2</sup> )	3 g/Litre of water	10 g/L of water
DIRECTIONS FOR USE		
Soil drench 2 weeks before planting. Repeat in 2 weeks then monthly or whenever conditions favour the spread of soil diseases.	Spray foliage and stems to runoff. Repeat fortnightly as a protectant, or more frequently if disease is present.	Dip seeds, seedlings or cuttings in this solution just prior to planting.

For best results, mix a measured amount of Micro-shield in water and allow to soak for up to 1 hour before application.

Make spray dilution and maintain good agitation during application.

**Optional:** Addition of an organic microbial bio-stimulant, like NBS Root-Max, will enhance the benefits of this living product and stimulate plant health.

# NBS SPEED COMPOST™

**NBS SPEED COMPOST** contains organic manure formulation enriched with spores of cellulolytic composting microbes like Trichoderma, Chaetomium, Bacillus etc.

These microbes when added to a raw compost heap/straw, germinate to produce hyphal mycelium or new bacterial cells. These saprophytic microbes grow on solid surfaces & produce a wide range of enzymes like cellulases, proteins & amylases. These enzymes penetrate the raw compost and converts cellulose to sugar intermediates.

Thus, **NBS SPEED COMPOST** microbes enable rapid digestion of the raw compost/straw and help in recycling of crop residues & wastes effectively. This is possible due to the variety of microbes that digest the plant waste.

Digestion of the farm compost matter and wastes results in enriched quality & reclamation of soil. Nutrient contents of the soil are increased manifold, thus resulting in greater crop yields.

### Benefits:

- For efficient recycling of organic wastes aerobically
- Essential input for efficient recycling of hard to recycle organic waste yielding stable compost
- Accelerates decomposition of organic waste to useful compost
- Non-toxic, Residue free

### Composition :

Azotobacter Chroococcum	-1.0%
Bacillus Polymyxa	-1.0%
Pseudomonas fluorescens	-1.0%
Organic manure	-96.0%
<b>TOTAL</b>	<b>-100%</b>



# NBS MAX SPREADER™

## (Organic Spreader)

**NBS MAX SPREADER** is an organic, non-ionic silicon super spreader used in agriculture as an adjuvant in tank mixes for foliar sprays and soil applications. Its organic silicon content is extracted from rice husk.

### Key Performance

- Super spreader
- Penetrator
- Activator
- Sticker
- Act as growth promoter by providing silicon to the plant

**NBS MAX SPREADER** enhances product efficacy by 30%, leading to an overall reduction in production costs by 25-30%. By improving nutrient uptake and crop protection, it delivers average yield increases of 15% to 20% compared to standard treatments. With the lowest dosage rate of just 0.1 ml per liter, **NBS MAX SPREADER** is one of the most cost-effective wetters/spreaders available. Its versatility and flexibility make it compatible with all sprays and soil applications.

### Application:

**NBS MAX SPREADER** is suitable for use on all crops, lawns, turf, floriculture, ornamental plants, and in hydroponic farming. It can be applied in foliar sprays, aerial sprays, and soil applications through fertigation systems, drip irrigation, and drenching.

### Dosage:

For all foliar applications, use 0.1 ml per litre of water with any input application. For soil applications through fertigation and drip irrigation, use 0.25 ml per liter of water.





# NBS BIO PRODUCTS



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