AZN is a liquid formulation containing live *Azotobacter chroococcum*, commonly applied to the root area or as a soil treatment, on a wide range of crops. *Azotobacter chroococcum* is a purposely selected organism for its interaction with the host plant in the root area (rhizosphere), and is found in the organic fraction of the soil. *Azotobacter chroococcum* is known to help with growth promotion of plants and is a diazotrophic (free living nitrogen fixer) microbe that is common in healthy soil and root ecosystems.

This microbe is also known to form cysts, which are a hardened form of the bacterium, when exposed to conditions such as drought, oxygen deprivation, extreme temperatures or lack of nutrients. This encystation shuts down the metabolic processes of the microbe as well as protecting it from the elements. Encystation reverses as soon as the conditions around the microbe return to favourable, and the organism continues growing.

The plant growth promotion properties of the organism are caused mainly by the fixation of atmospheric nitrogen, as well as the production of several plant hormones including auxines, gibirillic acid and cytokinines. These hormones enable the plant to use its stored energy for vegetative growth, instead of hormone production. AZN also assists in the breakdown of some pesticides and fungicides, increasing soil health post application.
### Directions for use:

**Seedlings in trays:**
Dilute 1lt of AZN with just enough water to drench the trays of 1ha of seedlings 1 day before planting.

**Soil application:**
Dilute 1lt of AZN with just enough water to apply on 1ha at planting. Drench the soil by spraying or through irrigation.

Repeat with 1lt of AZN at the following stages:
- Citrus: Early Bloom
- Potatoes: 6-8 leave stage
- Cotton: Pinhead squire
- Root Veg: 4-6 leave stage
- Apples: With calcium sprays
- Fruiting Veg: Pre-bloom
- Soybeans: 6-8 leave stage
- Grapes: at leave-out
- Sugarcane: 45 days after planting
- Leafy Veg: 6-8 leave stage
- Maize: 6-8 leave stage
- Wheat: 2-5 leave stage
- Peanuts: pre-bloom
- Sunflower: 4-5 leave stage
- Root Veg = Such as Beets, Carrots, Parsnip, Turnips and Raddish
- Fruiting Veg = Such as Cucumber, Eggplant Melons, Peppers, Squash and Tomato
- Leafy Veg = Such as Asparagus, Artichoke, Broccoli, Brussels sprouts, Cabbage, Cauliflower, Celery, Chives, Lettuce, Parsley and Spinach.

AZN is compatible with all organic products. AZN is a product with live microbes and is sensitive to chemicals.

### AZN
AZN contains live *Azotobacter chroococcum*. A liquid formulation of microbes for use as root application or soil treatment for all plants. *Azotobacter chroococcum* is a purposely selected organism for its interaction with the host plant in the root area (rhizosphere). *Azotobacter chroococcum* is known to help with growth promotion of plants. *Azotobacter chroococcum* is a diazotrophic (free living nitrogen fixer) microbe that is common in soil and root ecosystems. Good inoculation of the host plant is important to give the probiotic the best advantage to colonize the rhizosphere.

**WARNING:**
Use only as directed. Keep in a cool (4°C – 24°C) dry place out of direct sunlight. Keep out of reach of children, animals and uninformed persons. Use with the recommendation of a plant nutritionist.

**PRECAUTIONS:**
Wear protective clothing. Rinse empty container a minimum of 3 times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsing to the spray tank. Destroy the container by puncturing, flattening and dispose of if in a safe way.

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