



**PRODUCT INFO  
& DATASHEET**

## ***BS – 48 (powder)***

### *A water soluble plant food for foliar feeding*

### *NPK 10.20.20 + TE (chelated)*

#### **DESCRIPTION**

BS - 48 is a rapidly soluble synergistic powder containing an array of major and minor elements, an auxin (cytokinin) and gibberellic acid (GA3). BS - 48 is rich in analysis and is a valuable supplement to the soil fertiliser program. It is particularly good where adverse conditions exist for the uptake of nutrients from the soil and provides the needed nutrients to encourage more rapid reproduction in plants. BS - 48 may be applied to many crops since all plants are capable of absorbing nutrients through the leaves. These applications do not replace your regular fertiliser program. Follow your normal program and add BS - 48 for increased yields. BS – 48 increases production if adequate soil moisture and nitrogen are available. If the soil moisture is not adequate, when ready to apply, the producer should irrigate or wait until rainfall occurs before application.

#### **PRODUCT ANALYSIS**

Total Nitrogen (N):	10%
Ammoniacal N:	3.04%
Nitrate N:	5.04%
Urea N:	2.0%
Phosphorus Pentoxide (P2O5):	20%
Potassium Oxide (K2O):	20%
Magnesium Oxide (MgO):	1.15%
Calcium Oxide (CaO):	0.28%
Sulphur Trioxide (SO3):	2.75%
Copper (Cu):	0.05%, EDTA chelated
Iron (Fe):	0.10%, EDTA chelated
Manganese (Mn):	0.05%, EDTA chelated
Zinc (Zn):	0.05%, EDTA chelated
Boron (B):	0.02%
Molybdenum (Mo):	0.0005%
Zinc (Zn):	0.05%

#### **MAJOR ADVANTAGES**

Application of BS - 48 has proven successful in improving plant vigour, crop quality, early maturity and increased yields. BS - 48 is unique in its mode of action resulting in heavy bloom and fruit set. The balance of nutrients in BS - 48 encourages faster transition from the plant vegetative stage to the reproductive stage of development resulting in early maturity and increased yields.

#### **APPLICATION**

##### **Method of application:**

Apply on seed, or as a foliar spray with ground equipment. Apply with any spray tip and equipment that delivers a fine even mist to ensure thorough coverage. Do not apply this product through any type of irrigation equipment.

##### **Spray solution and volume:**

Mix with water to prepare spray solution. For ground applications, apply 50 to 200 litres of water per ha unless specified otherwise below. For aerial applications, apply in 5 to 50 litres of water per ha unless specified otherwise below.

##### **Compatibility:**

BS – 48 is compatible with most liquid fertilizers, herbicides and fungicides. When compatibility is in question, test with the standard quart jar method.

##### **Suggested rates:**

COTTON: Apply 300 - 450 gram per hectare directed to foliage at emergence of 1st leaves, or 500 gram per hectare directed to foliage at midpoint emergence of true leaves and pin head square stage.

SOY BEANS , FIELD PEAS: Apply 500 - 1,000 gram per hectare as an overall spray between 1st true leaves and prior to bloom.

PEANUTS: Apply 500 gram per hectare 28 days after emergence. Repeat 14 days later.



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WHEAT, MILLET, RICE, OATS, TRITICALE, RYE AND RYEGRASS:

**For spring planted grains and grasses:**

Apply 500 g per ha early in the growing season, as soon as sufficient foliage is present to get crop coverage.

**For fall and winter planted grains and grasses:**

such as wheat, oats, rye and rye grass, apply 500 g per ha as soon as dormancy is broken.

**For rice:** repeat with the last pre-flood herbicide application.

**CORN AND GRAIN SORGHUM:** Apply 500 g per ha directed to crop foliage at 3-5 blade stage.

**OIL SEED CROPS (sunflower, rape, canola, sesame, safflower, etc.):** Apply 500 g per ha at 3-leaf stage.

Repeat at 14-day intervals during growing season.

**FORAGE, FODDER AND HAY CROP:** Apply 0.5 to 1 kg per ha at the 4-5 leaf stage or at dormancy break.

For ratoon crops, repeat after cutting

**LEGUME VEGETABLES (SUCCULENT OR DRY) (Beans, Peas, Lentils, etc):** apply 500 g per ha in a band at 3-5 leaf stage. Repeat at 10-14 day intervals during the growing season.

**CITRUS (oranges, grapefruit, lemons, etc), POME FRUIT (apples, pears, etc.), STONE FRUIT (apricots, cherries, nectarines, peaches and plums), GRAPES, BERRIES (ALL KINDS EXCEPT STRAWBERRIES) AND SMALL FRUIT:** Apply 1 kg in 400 litres of water at fruit set.

**STRAWBERRIES:** Apply 500 g per ha 7 to 10 days after new foliage appears in the spring.

Repeat at 14-day intervals during the growing season.

**MELONS (watermelons, cantaloupes, honeydew melon, etc.) AND CUCUMBERS:** Apply 500g per ha as runners put out. Repeat at 14-day intervals during the growing season.

**SQUASH (pumpkin, summer and winter):** Apply 500 g per ha at 5-leaf stage. Repeat at 14-day intervals during the growing season.

**TOMATOES:** Apply 500 g per ha at 5-leaf stage. Repeat at 14-day intervals during the growing season.

**PEPPERS:** Apply 500 g per ha at 5-leaf stage. Repeat at 14-day intervals during the growing season.

**EGGPLANT:** Apply 750 g per ha at the 4-5 leaf stage. Repeat at 2-week intervals.

**OKRA:** Apply 500 g per ha directed to foliage at emergence of first true leaves and again prior to bloom.

**ASPARAGUS:** Apply 750 g per ha at the 4-5 leaf stage. Repeat at 2-week intervals during the growing season.

**POTATOES, SWEET POTATOES AND YAMS:** Apply 250 g per ha at 6-8 leaf stage. Repeat at 14-day intervals during growing season.

**BEETS, RADISHES, CARROTS, TURNIPS AND PARSNIPS:** Apply 500 g per ha at 5-leaf stage. Repeat at 14-day intervals during the growing season.

**ONIONS, GARLIC:** Apply 500 g per ha 21 days after transplant. Repeat at 14-day intervals during the growing season.

**LEAFY VEGETABLES (lettuce, spinach, mustard, collards, kale, bok choy, etc.):** Apply 500 g per ha at 3-leaf stage. Repeat at 14-day intervals during the growing season.

**BRASSICAS (broccoli, cabbage, cauliflower, brussel sprouts, etc.):** Apply 500 g per ha at 3-leaf stage. Repeat at 14-day intervals during the growing season.

**TREE NUT CROPS (almonds, macamia, pecan, pistachio, walnut etc.):** Apply 750 g per ha in 400 litres of water at fruit set. Repeat 10 days later.

**TOBACCO:** Apply 250 g/1000 litres of transplant solution at time of transplant. Apply 250 g per ha at suckering.

**OUTDOOR/INDOOR FLOWERING SHRUBS, ORNAMENTAL PLANTS:** Apply 750 g per 5 litres of water sprayed in a fine mist every 14 days during growing season.

**PINE SEEDLINGS (IN NURSERIES):** Apply 1 kg per ha every 14 days during the growing season.

At packaging for shipment, mix 1.5 kg per 400 litres of water and dip seedling roots or spray roots to runoff of solution.

**TURF:** Apply 500 g per ha broadcast when turf breaks dormancy.

**SEED TREATMENT (ALL SEEDS):**

**Planter Box Application Method:** Partially fill the hopper box with a pre-measured amount of seed.

Apply 50g per 50 kg of seed as a seed treatment dressing. Mix with a stick or paddle until all the seed is coated. Repeat procedure until the hopper box is full.

**DO NOT USE TREATED SEED FOR FOOD, FEED OR OIL PURPOSES.** Treat only those seeds for immediate use and planting. Do not store excess treated seed beyond planting time.

**In-Furrow Application Method:** Apply 100 g per ha at planting into the furrow.

BS – 48 may be tank mixed. SEE COMPATIBILITY.

**Seed Cleaning Application Method:** Apply 100 g per 50 kg of seed at the time of seed cleaning.

**DO NOT USE TREATED SEED FOR FOOD, FEED OR OIL PURPOSES.**



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An approved dye must be added to distinguish BS - 48 treated seed and prevent inadvertent use for food, feed or oil purposes. Seed treated with this product must be labeled in accordance with all applicable requirements of legislation governing seed treatments.

**POTATO SEED PIECES:** Apply 25gm/50 kg of cut seed pieces. Treat potato seed pieces immediately after they have been cut. Apply so that the cut seed pieces are thoroughly covered. BS – 48 may be mixed with other seed treatments and carriers such as fir and alder bark to ensure uniform coverage.

**PRECAUTIONS**

Keep out of the reach of children.