



BORO GOLD

A Broad Spectrum Fungicide, Bactericide, Virucide, Sporicide & Algacide

TECHNICAL DATA & GENERAL TEST SPECIFICATIONS

Sr. No.	Test	Specification
1.	Appearance	White to off white granules
2.	Odour	Scarcely perceptible smell
3.	pH as is	Approx. pH 10 to 10.5
4.	Bio-degradability	Non-Polluting, on degradation emits oxygen, water and traces of silver
5.	Combustibility	Non-inflammable
6.	Water solubility	Completely soluble in water
7.	Compatibility	Contact with oxidizable organic substances can, lead to spontaneous combustion. Keep away from contact with wool, wood, straw, paper, petroleum, coal and textiles, pesticides etc.

Residual Data: *Boro Gold* - liberates water, oxygen and traces of silver on degradation.

TOXICITY DATA

- Dermal LD50 > 2,000 mg/kg Oral LD50 = 2896 mg/kg
- Silver: Rated as non toxic (EPA/FDA). Drinking water safe level: 180 ppb/day
- Drinking water tolerance limits
 - + USA, Canada, Russia, Japan 0.05 mg/l (ppm)
 - + European Union 0.08 mg/l (ppm)

Shamrock Overseas Limited has made every effort towards developing Boro Gold with an enhanced effect with respect to crop protection & yields. However It is required to conduct necessary trials at farm level to generate the actual data and obtain clearances from the government authorities for use of the product in agriculture.

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A multi-component biocide with a combination of nano silver particles & peroxy acid, forming a synergistic complex with other components hence imparting a long-lasting effect.

HOW BORO GOLD WORKS

Presence of Nano/Colloidal Silver present in trace amounts, acts as a catalyst.

The bactericidal effect of silver is based on the fact that the monovalent silver ion binds very firmly to bacterial proteins by a covalent or coordinate bond, and thus inactivates or precipitates these.

USES & APPLICATION

Seed, soil and plant disinfection

Use of knap-sack sprayer, power sprayer or soil drenching at early morning or late evening hours (2 gms./ litre of water)

Post-harvest treatment in repelling fungal or microbial attacks

Preventive and curative treatment of fungal diseases

Boro Gold being a contact biocide, it is recommended to spray on the affected parts of plants, foliage for best results. Also spraying or drenching the soil near the plant eliminates spores of fungi and other microbes.

- Spray, mist or fog plants every seven days as preventive treatment (1.5 gms. / litre of water)
- At the first sign of reoccurrence of a disease and if widespread and severe, spray twice during the first week and once under control, resume weekly preventative treatment (1.5 to 2.0 gms. / litre of water)

CONTROLS & PREVENTS

Algae	Alternaria	Anthracoze	Black Spot	Botrytis (Grey mold)	Downy Mildew (Plasmopara)	Erwinia Fusarium (Root Rot)	Leaf Spot	Phytophthora (Blights, Rots)
Powdery Mildew (Uncinula)	Pseudomonas	Pythium	Rhizoctonia	Rust (Pucciniales)	Common Scab	Smut	Xanthomonas	Wilts & Blights