

DETONATION[®]

UNIVERSAL SEED, SOIL AND FERTILIZER TREATMENT

BIO CATALYST MICROBIAL INOCULANT

Detonation Universal product can be applied as a concentrate to promote nutrient and water management in row crops, grass types, vegetable crops, peanuts, orchards and citrus groves. It can also be applied to enhance germination and growth as a seed coating. Lastly, this can be applied to fertilizer or calcium products to enhance nutrient efficiency. This beneficial combination of probiotics also contains a microbial food source. This includes polysaccharides, humates and proteins to initiate seed germination, growth, proliferation, and colonization. This multiple strain of probiotics promote a symbiotic reaction in the soil that enhances their ability to build soil microbial life. This synergistic family of microbes cycle nutrients while building the enzymes, hormones, and food sources in the soil for microbial colonization. When Detonation microbes are introduced into the soil, they deliver a broad range of agronomic benefits. This helps to establish a balanced microbial nutrient delivery system for plant health, rooting and growth.

PRODUCT BENEFITS

- Enhances seed establishment at planting while promoting excellent root density
- Promotes nutrient availability and uptake while recycling soil organic matter and soil nutrients
- Contains multiple atmospheric fixing nitrogen bacteria to enhance plant growth
- Contains phosphate solubilizing bacteria which enhances flower and fruit set
- Promotes a healthier and more overall resilience plant growth and quality

GENERAL INSTRUCTIONS:

- Shake or agitate product prior to each use to ensure mix uniformity
- Calibrate seed treater before each treatment
- If treated with pesticides, increase rates by 15 to 20%
- Store Detonation in cool, dry location with temperature between 40 to 80 degrees



CONTAINS NON-PLANT FOOD INGREDIENTS

- Paenibacillus polymyxa 1 x 10⁸ cfu per ml
- Bacillus subtilis 1 x 10⁸ cfu per ml
- Bacillus pumilus 1 x 10⁸ cfu per ml
- Bacillus licheniformis 1 x 10⁸ cfu per ml
- Bacillus amyloliquefaciens 1 x 10⁸ cfu per ml
- Bacillus megaterium 1 x 10⁸ cfu per ml
- Trichoderma harzianum 1 x 10⁸ cfu per ml
- Azospirillum amazonense 1 x 10⁸ cfu per ml
- Azospirillum lipoferum 1 x 10⁸ cfu per ml

*Contains proprietary blend of microbial growth factors to enhance nodulation and maintain microbial viability

SEED TREATMENT RATES:

- Standard Rate** - Apply 4.5 fl oz per 100 lb
- Fine Seed Rate** - Apply 6.0 fl oz per 100 lb
- Pesticide Rate** - Apply 5.5 fl oz per 100 lb

APPLICATION RATES

| APPLICATION | AMOUNT | COV. | NOTES |
|----------------------------------|--------------|------|---|
| Dry Fertilizer Impregnation | 2 - 4 Quarts | Ton | Spray onto Fertilizer |
| Dry Calcium Impregnation | 1 - 2 Quarts | Ton | Spray onto Calcium |
| Broadcast Application | 2 - 4 Quarts | Acre | Apply Planting & Seasonal Maintenance |
| Row Crop In-Furrow 2x2 | 1 - 2 Quarts | Acre | Apply at time of Planting |
| Row Crop 32" Side Dress Banding | 1 - 2 Quarts | Acre | Apply at time of Planting |
| Vegetable 32" Band Under Plastic | 1 - 2 Quarts | Acre | Apply at Planting |
| Irrigation Injection 1:10 Ratio | 1 - 2 Quarts | Acre | Apply Monthly Throughout Growing Season |

CONTACT YOUR SANCTUARY DISTRIBUTOR FOR MORE INFORMATION.

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