

TECHNICAL Data Sheet



BIO·GREEN
PLANET®

environmental products for a greener planet

Sunrise Soil Probiotic



Key Benefits

- **Builds Soil Fertility:** enhances biological nutrient availability, accelerates organic matter conversion, and supports soil structure & productivity.
- **Improves Fertilizer Efficiency:** enhances NPK and micronutrient-use efficiency.
- **Enhances Root Growth:** Stimulates root elongation and branching for improved nutrient and water uptake.
- **Promotes Crop Vigor & Resilience:** Boosts plant establishment & tolerance to environmental stress.
- **Balances the Soil Microbiome:** Encourages beneficial microbial dominance, supporting healthier, more biologically active soils.
- **OMRI Listed & CDFA Registered:** OMRI Listed biofertilizer for organic production; CDFA registered for distribution in California.



Product Description

Sunrise soil probiotic is an OMRI Listed, CDFA-registered microbial inoculant and multi-strain biofertilizer developed for professional and specialty crop programs. This advanced microbial consortium for agriculture combines beneficial bacteria and fungi that function as a soil probiotic for plants, enhancing soil fertility, nutrient cycling, and crop performance. The diverse, spore-forming microbial inoculant colonizes the rhizosphere to solubilize nutrients, decompose organic matter, and strengthen the soil microbiome for sustainable productivity and more efficient nitrogen utilization.

Applications

- Horticulture & Vegetable
- Row Crops & Cereals
- Orchards & Vineyards
- Greenhouse & High-Value Crops
- Organic & Regenerative Systems

Concentration (CFU/g):

- Powder: 50 billion CFU/g (5×10^{10} CFU/g)
- Particle Size (Mesh): Passes 100-mesh sieve; compatible with 100-mesh screens
- Custom concentrations available upon request

Packaging Options

- Powder: Supplied in
 - 22 lb (10 kg) pails
 - 37 lb (17 kg) pails
 - 330 lb (150 kg) drums
 - Custom/OEM and smaller formats available upon request

Shelf Life & Storage

- 18 months at room temperature
- 24 months refrigerated
- Store in a cool, dry location away from direct sunlight.
- Reseal container tightly after each use.

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Application Guidelines

	Range	Optimal
pH Range	4.0 – 10.0	6.0 – 7.5
Temperature	40°F – 115°F (4°C – 46°C)	68°F – 95°F (20°C – 35°C)

Application Rates

Specialty Crops - Soil Application (Drip, Drench, or Fertigation)

- **Apply 13 g per acre** (32 g per hectare) through drip or spray irrigation **every 1–2 weeks** during the crop cycle, targeting the root zone.
- Thoroughly mix Sunrise into non-chlorinated water and maintain gentle agitation during application to prevent settling.
- After each application, run a short clean-water flush to clear the lines.

Frequency & Timing

- Apply at least three times per crop cycle for best results
- If applying less often, increase the rate and focus treatments from 2 weeks before flowering through fruit development.

Lower Frequency Application Rates

- **Monthly application:** Apply **50 g per acre** (125 g per hectare), targeting the root zone for strong microbial establishment.
- **Single application:** Apply **100-200 g per acre** (250-500 g per hectare) once per crop cycle, focusing on the root zone for concentrated microbial activity.

Hydroponics (Recirculating)

- 2–5 g per 1,000 L weekly maintenance
- 5–15 g per 1,000 L startup/reset dose
 - Microbes may be reduced or killed by UV sterilizers, ozone, hydrogen peroxide, chlorine, hypochlorous acid, chlorine dioxide, quaternary ammonium sanitizers, strong oxidizers, and some fungicides or pesticides. Very fine filtration can also physically remove bacteria from the solution. For best results, apply the microbial product when these treatments are not actively running or shortly after a reservoir reset, once sanitizer residuals have dissipated.

Row Crops

In-Furrow Applications

- For optimal results, apply at least twice per crop cycle
- 13 g per acre (32 g per hectare) at planting in-furrow
- 50g per acre (125 g per hectare) 3-6 weeks later during the second pass
 - If multiple passes are made, divide the 50 g/acre total across passes (e.g., 3 passes = 16.7 g/acre per pass).

Irrigation Applications (Pivot, Drop, or Sprinkler Systems)

- Apply 50 g per acre (125 g per hectare) through irrigation 2-3 times per season, spaced 3-6 weeks apart.
- **Monthly application:** Apply 50 g per acre (125 g per hectare), targeting the root zone for strong microbial establishment.
- **Single application:** Apply 100-200 g per acre (250-500 g per hectare) once per crop cycle, focusing on the root zone for concentrated microbial activity.
- Begin first application after root emergence with additional treatments during active vegetative growth.

Notes

- Always mix Sunrise into non-chlorinated water and maintain gentle agitation to prevent settling.
- After each application, run a short clean-water flush to clear irrigation lines.
- Compatible with 100-mesh screens and most liquid nutrient programs.

Disclaimer: Results may vary depending on environmental conditions, application rates, and management practices. The manufacturer makes no guarantee of specific results. Seller's liability is limited to replacement of product or refund of purchase price. Manufacturer is not responsible for misuse, mishandling, or application under adverse conditions beyond its control. This product is not registered for pesticidal use with the U.S. Environmental Protection Agency. It is intended as a microbial inoculant only. Keep out of reach of children.

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