TECHNICAL
Data Sheet

BIO·GREEN PLANET®
environmental products for a greener planet

Low Temperature (LT)

Key Benefits

- **High Cold-Weather Activity:** Maintains ~90% biological performance at 4 °C/39 °F for effective BOD, COD, TSS, and sludge removal.
- **Rapid System Recovery:** Provides reliable low temperature bioaugmentation to speed recovery from winter upsets that normally take 2–3x longer to stabilize
- **Nutrient & Sludge Control:** Limits winter sludge accumulation and nitrogen/phosphorus release that trigger odors, TSS spikes, and algae growth in spring
- **Hydraulic Resilience:** Protects against washout and fluctuating flows during storms and variable loading
- **Year-Round Reliability:** Strengthens winter stability while ensuring continuity from cold-weather operations to spring startup

Product Description

Low Temperature (LT) is a blend of cold weather Bacillus bacteria designed for reliable performance when water drops below 15°C/60°F. While standard bacteria lose efficiency in cold weather, strains in LT retain up to 90% biological activity at 4°C/39°F, providing effective winter wastewater treatment for plants and lagoons, and supporting pond maintenance where cold weather slows natural biology. By reducing sludge buildup and supporting nutrient balance, LT helps operators avoid seasonal disruptions and ensures a smooth handoff into spring operations.

Applications

- Municipal systems: activated sludge, SBR, MBBR, clarifiers, lagoons
- Industrial effluents: food processing, pulp & paper, dairy, brewery
- Ponds & lagoons: sludge reduction, water clarity, odor control, seasonal stability

Concentration (CFU/g):

- Powder: 2, 50 billion CFU/g dry powder
- Liquid: 13.5 billion CFU/ml liquid
- Blocks: 6 billion CFU/g
- Tabs: custom

Custom concentrations available upon request

Packaging Options

- Powder: Supplied in
  - 22 lb (10 kg) pails
  - 44 lb (20 kg) pails
  - 340 lb (155 kg) drums
- Liquid: Available in
  - Quart, liter, gallon containers
  - 55-gallon (208 liter) drums
- Blocks: Packed in cases of 4
- Tablets: All tab sizes packed in pails
- Smaller packaging available upon request

Shelf Life & Storage

- 2 years at room temperature
- 3 years 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	4.5 – 9.0	6.0 – 8.0
Temperature	39°F – 122°F (4°C – 50°C)	39°F – 77°F (4°C – 25°C)

Application Rates

Powder

PPM	Grams per million L/day	Grams per million gal/day	Notes
0.04	40	150	Starting Dose
0.08	80	300	After 2 Weeks

Liquid

PPM	ml per million L/day	ml per million gal/day	Notes
0.04	150	570	Starting Dose
0.08	300	1140	After 2 Weeks

Blocks

- **Wastewater:** one block treats ~1,500m^3 (1.5 million liters) of water and slowly dissolves over ~30 days. Dissolve rate fluctuates with water temperature and flow rate.
- **Pond maintenance:** one block treats a 1-acre pond for ~30 days.

Fast-Dissolve Tabs

- Dissolve within 1 hour. Available in multiple sizes (5g, 28g, 130g).

Contact Information

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