

# TECHNICAL Data Sheet



## Low Temperature (LT)



environmental products for a greener planet

### Key Benefits

- **High Cold-Weather Activity:** Maintains 92% 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

### 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



### 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 92% 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.

### 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                  |
|--------------------|---------------------------|--------------------------|
| <b>pH Range</b>    | 4.5 – 9.0                 | 6.0 – 8.0                |
| <b>Temperature</b> | 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<sup>3</sup> (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).

**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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