

TECHNICAL

Data Sheet



environmental products for a greener planet

Petroleum Treat (PT)

Key Benefits

- High-CFU Performance:** consistent microbial activity in wastewater and soil remediation
- Broad Contaminant Coverage:** diesel, gasoline, kerosene, heating oil, jet fuel, lubricating oils, and PAHs
- Biosurfactant & Enzyme Production:** improves hydrocarbon bioavailability for faster breakdown
- Proven in Multiple Systems:** effective in refinery, petrochemical, and industrial operations including API/CPI separators, DAF/IGF units, aeration basins, clarifiers, lift stations, stormwater, and soils
- Consistent in Harsh Conditions:** performs under variable pH, temperature, and hydrocarbon loads
- Flexible Formats:** available in powder, liquid, block, and tablet



Product Description

Petroleum Treat (PT) is a high-CFU blend of petroleum-degrading bacteria for wastewater treatment and petroleum-contaminated soil bioremediation. Designed for the petrochemical, industrial, and environmental remediation sectors, PT accelerates the breakdown of aliphatics, aromatics (including PAHs), petroleum distillates, lubricating oils, and fats, oils, and greases (FOG). Natural biosurfactants and broad-spectrum enzymes increase hydrocarbon bioavailability for faster, more complete degradation. PT delivers consistent results in both wastewater and soil applications, improving stability, reducing TPH, and cutting remediation timelines even under variable field conditions.

Applications

- Wastewater Systems
- Industrial Facilities
- Collection Systems
- Stormwater & Runoff
- Soil & Groundwater Remediation
- Spill Response

Concentration (CFU/g):

- Powder: 2, 50, 100 billion CFU/g dry powder
- Liquid: 13.5 billion CFU/ml liquid
- Blocks: 4 billion CFU/g
- Tabs: 2 billion CFU/g

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: Packed in cases of 12 or in pails

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.

Application Guidelines

	Range	Optimal
pH Range	5.0 – 9.5	6.0 – 8.0
Temperature	45°F – 120°F (7°C – 49°C)	59°F – 104°F (15°C – 40°C)

Application Rates: Wastewater

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

Application Rates: Soil

Hydrocarbon Concentration (PPM)	Initial Dosage Rate	Follow Up
< 10,000 PPM	7 g product per cubic meter or cubic yard of soil	Follow up may be required. If needed, apply at half of the original dosage.
> 10,000 PPM	10 g product per cubic meter or cubic yard of soil	At least 1 follow up is usually required at half of the original dosage.
> 20,000 PPM	13.5 g product per cubic meter or cubic yard of soil	1-2 follow up is usually required at half of the original dosage.

Blocks

One 900g (2lb) block treats ~1,500m³ (1.5 million liters) of water and slowly dissolves over ~30 days. Dissolve rate fluctuates with water temperature and flow rate.

Tabs

One 85g (3oz) tab treats ~150m³ (150,000 liters) of water and slowly dissolves over ~30 days. Dissolve rate fluctuates with water temperature and flow rate.

Fast-Dissolve Tabs

Tablets dissolve completely within 1 hour in water. Tablet sizes vary (5g, 28g, 130g).

Bio-Based Cleaners and Degreasers

Usage rates vary. Reference dose:

- 0.75 - 1.5 grams of 50B powder per liter of ready-to-use product
- 2.75 - 5.5 grams of 50B powder per gallon of ready-to-use product.

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 soil amendment / microbial inoculant only. Keep out of reach of children.

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