



**MicroSynergies**<sup>®</sup>  
bringing technology and people together.<sup>®</sup>

## MicroChoice<sup>®</sup> PPT Pulp & Paper Treatment

A concentrated, dry blend of stabilized bacterial spores and micronutrients formulated for the treatment of pulp and paper wastewater.

**MicroChoice<sup>®</sup> PPT – Pulp & Paper Treatment** is a scientifically formulated blend of concentrated bacterial cultures for use in the bioaugmentation of pulp and paper mill wastewater.

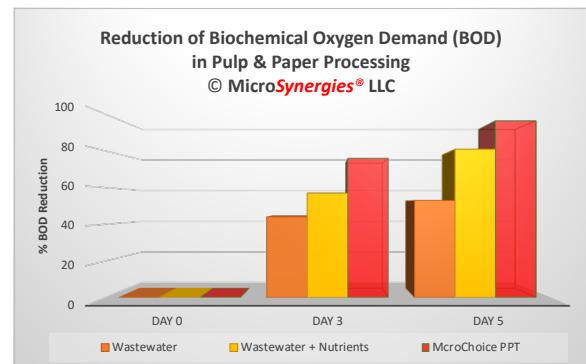
This product contains a proprietary micronutrient carrier which provides accelerated microbial germination and growth and microbial cultures that were selected for optimal enzyme production and the ability to function under a variety of environmental conditions. This combination of superior microbial cultures and micronutrient system leads to the reduction of BOD, TSS and odors in pulp and paper systems.

Unique, non-engineered cultures are stabilized and shipped in spore form, ensuring long-term stability and extended shelf life.

Multilevel quality assurance processes extend far beyond our doors. Purity and microbial concentration is guaranteed

for consistent and superior biological products in the hands of your customers.

### Reduction of BOD



**MicroChoice<sup>®</sup> PPT** was added to waste water collected from a pulp and paper treatment facility. As shown in the graph, the use of **MicroChoice<sup>®</sup> PPT** alone, or in combination with a nutrient addition, were very effective at reducing the BOD in this waste material.

# MicroChoice® PPT Specifications

**Guaranteed Minimum Bacterial Concentration:**

4 Billion CFU/g

**Applications:**

- Activated Sludge Systems
- Facultative Lagoons and Holding tanks
- System Upset Recovery
- Plant Start-Up
- Digesters
- Clarifiers

**Product Profile:**

**Multiple Bacillus Species**

- Naturally occurring, non-engineered
- Aerobes and facultative anaerobes
- Highly motile
- Positive chemotaxis
- 100% stabilized bacterial spores

**Bacterial Enzyme Production:**

Amylase, Protease, Lipase, Esterase, Urease, Cellulase, Xylanase

**Salmonella Free:**

Nonpathogenic, contaminant-free.

**Appearance:**

Dry, tan, free-flowing powder

**Effective pH Range:**

5.0 – 10.0

**Effective Temperature Range:**

5°C - 55°C (40°F - 130°F)

**Shelf Life:**

One year at 21°C (70°F)

**Standard Packaging:**

Available in one-pound water soluble packets in 25-pound pails. Bulk fiber drums

**Custom Products:**

Contact us for alternative formulations and packet sizes to meet your desired specifications.

**Storage and Handling:**

Store in a cool, dry location. If exposed to skin or eyes wash thoroughly with water.

The information herein is true and accurate to the best of our knowledge; however, this product information sheet is not to be considered as a guarantee expressed or implied, or as a condition of sale of this product.