



*Aum Enzymes*  
India's #1 Speciality Enzyme Products

**Effluentzyme PPI**  
**Ecomicroorganism & Enzymes**

**BENEFITS**

- Ecofriendly and biodegradable
- Work efficiently and rapidly
- Can handle pH fluctuation because of bleach plant effluent.
- Spill response for black liquor release
- Works well in wide range of temperature and even having high BOD.
- Non pathogenic, economical, safe
- Reduce turbidity, sludge build up
- Potential for anaerobic conditions and foul odors
- Can handle high temperature of waste

**DESCRIPTION**

Effluentzyme PPI has ability to treat effluent of paper & pulp industry. It is a highly efficient, concentrated, synergistic blend of bio consortia comprising mixture of spores, vegetative cells and enzymes for rapid reduction of paper and pulp waste. The paper and pulp industry produce highly loaded waste water from variety of application like log wash water, bleach plant effluents and paper machine effluents.

In preparation of Effluentzyme PPI we have taken care of specific needs of paper & pulp waste which includes [1] High temperatures, as high as 70°C [2] Fluctuating pH levels, especially in bleach plant effluents [3] Presence of toxic and inhibitory substances in effluent, which may be detrimental to biological treatment process.

Paper and pulp waste mainly consisting of lignin, cellulose, sulphite waste liquor, log wash water, bleach plant effluents and paper machine effluents, where the organic load is high and indigenous biomass is adversely disturbed by surfactants and waste chemical loads.

**PRODUCT SPECIFICATION:**

Physical form	Powder
Bacterial counts	Seven billion CFU / gram
Enzymes type	Mixture
pH operational range	5.5 to 9.5
Temperature operational range	15°C to 45°C
Odour	Natural
Appearance	Brown powder

## **APPLICATION & DOSAGE**

While using, Effluentzyme PPI it is recommended first to establish the optimal conditions for the desired effluent treatment by experimenting on small volume. There are many factors that influence effluent treatment with Effluentzyme PPI:

[1] Type of effluent [2] Nature of effluent [3] Temperature and pH [4] process time [5] Dosage

The dosage of Effluentzyme PPI for paper and pulp effluent treatment depends on effluent conditions and requirement.

## **STORAGE**

Enzyme products should be stored in a cool dry place. When stored below 25°C products will maintain its declared activity for at least 12 months.

## **PAKAGING**

Enzyme products are available in 25kg bag packing.

## **SAFETY**

The product is produced under hygienic condition and is subject to stringent quality control

### Toxicology

The product produced by GRAS microorganism and is classified as non toxic.

### Biodegradability

Product is Biodegradable.

### Handling precaution

Enzymes are proteins and inhalation of dust or aerosols may induce sensitization and may cause allergic reactions in sensitized individuals. Some enzymes may irritate the skin, eyes and mucous membranes upon prolonged contact.

## **REGULATORY INFORMATION:**

### EEC Classification

In concentration form, the enzymes products are classified as "sensitizers by inhalation" under the terms of EEC directive 88/379.

## **TECHNICAL SERVICE:**

AumEnzymes technical service laboratory shall be pleased to provide more information covering specific applications for all products or discuss any practical problem which many occur in the industry.

Technical datasheet given with each product are only given as usage guidelines, but tests should be carried out under local conditions to fix the optimum dosage for the machine type and conditions.

## **AUM ENZYMES**

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