



A U M E N Z Y M E S

Aum Enzymes
India's #1 Speciality Enzyme Products

Effluentzyme PHI Ecomicroorganism & Enzymes

BENEFITS

- Eco friendly and biodegradable
- Non pathogenic, economical, safe to handle, store and apply
- Helps in degradation of complex cyclic or straight chain molecules
- Helps in degradation recalcitrant and other xenobiotics
- Effective over wide variety of substrate
- Work efficiently and rapidly.
- Works well in even having high BOD.
- Reduce turbidity, sludge build up
- Potential for anaerobic conditions and foul odors

DESCRIPTION

Effluentzyme PHI has ability to treat pharmaceutical waste water produced from fermentation, organic synthesis, or combination of the two, those producing vaccine and antitoxins, vitamin, citric acid, antibiotics or synthetic antibiotics, sulpha drugs, steroids, and prostaglandins. Waste water from pharmaceutical plants are characterized by a high chemical demand, pH, trace metals, unoxidized nitrogen, **phosphorous**, color, Odour, temperature, toxicity and variable concentrations of salts. Effluentzyme PHI is mixture of spores, vegetative cells and enzymes for rapid degradation of highly complex pharmaceuticals waste water.

Heavy metals in high concentration shall inhibit the activity in Effluentzyme PHI. The presence of toxic chemicals above tolerance level can also inhibit the enzyme activity; hence the effluents should be neutralized before the addition of Effluentzyme PHI

PRODUCT SPECIFICATION:

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

APPLICATION & DOSAGE

While using, Effluentzyme PHI 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 PHI:

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

The dosage of Effluentzyme PHI for pharmaceutical 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 24 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:

Aum Enzymes 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.

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