



Aum Enzymes
India's #1 Speciality Enzyme Products

Effluentzyme RI Ecomicroorganism & Enzymes

BENEFITS

- Ecofriendly and biodegradable
- Works rapidly and efficiently
- Works in biphasic condition
- Works in low oxygen and minimal nutrients condition
- Works well even having high BOD
- Works well in wide range of temperature
- Non pathogenic, economical, safe
- Reduce turbidity, sludge build up
- Potential for anaerobic condition

DESCRIPTION

Effluentzyme RI is mixture of ecomicroorganism and enzymes used for biotechnological treatment of petroleum refinery and/or petrochemicals waste. The m.orgs and enzymes in Effluentzyme RI rapid degrade general refinery waste with emphasis on non-ionic and an-ionic surfactants and their components, including aromatic and fatty acid. Effluentzyme RI is good for refinery waste and helps in degradation of many recalcitrant, xenobiotics and difficult to degrade organic waste. Effluentzyme RI helps to degrade crude petroleum residues, ammonia, mercaptans, sulphides, amines and other organic compounds of which are difficult to degrade in petroleum refining and/or petroleum wastes.

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

PRODUCT SPECIFICATION:

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

APPLICATION & DOSAGE

While using, Effluentzyme RI 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 RI:

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

The dosage of Effluentzyme RI for refinery 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.

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