Bioscience, Inc.
Environmental Products & Services
ISO 9001:2015 Certified

MICROCAT®-UASB

Bioblend for Anaerobic Wastewater Treatment Systems

Description

MICROCAT-UASB is a specialty blend of micronutrients, microbes, microbial growth enhancers and neutralizing agents for use in stimulating (and re-establishing, if necessary) biological activity in anaerobic wastewater systems, in general, and upflow anaerobic sludge blanket (UASB) reactors, in particular. **MICROCAT-UASB** provides a unique, balanced blend of microbes, minerals and vitamins. It is formulated specifically to maintain process stability in operating plants and restore activity in damaged systems.

Applications

Anaerobic sludge blanket reactors from time to time suffer from a series of operating problems including:

1. Uncoupling-- causing buildup of volatile fatty acids (VFA) with simultaneous slowing or cessation of gas production.
2. Grease Blankets -- caused by the buildup of insolubles on the surface of the reactor.
3. Nutrient Imbalance -- caused by the lack of certain key micronutrients. This causes process instability and low gas production.
4. Poor biomass settling – causing high effluent suspended solids

MICROCAT-UASB with its preselected microbes, stimulants and settling aids can help alleviate these problems by buffering pH swings, maintaining competent grease degrading microbial populations, supplying settling aids and furnishing a balanced nutrient package.

Product Characteristics

Appearance	Tan powder
Contents	Calcium buffering salts, preselected facultative anaerobes, settling aids, organic and inorganic nutrients
Shelf Life	Five Years
Packaging	Twenty-five pound (11.3 Kg) plastic pails/220 Lb (100 Kg) fiber drums

Application Programs

For upset conditions **MICROCAT-UASB** is mixed with warm water and applied at the rate of 20 lbs (9.09 kg) pounds per million gallons (3788 cubic meters) per day of wastewater flow each day for 10 days. For maintenance each day add 2 lbs (0.91 kg) per million gallons per day of wastewater flow. The amount and frequency of addition depend on the frequency and severity of the problem at hand. Specific application rates may be determined by treatability testing. Contact your Bioscience, Inc. Technical Representative to prepare a detailed, coordinated application program to fit your wastewater plant site.

Optimal Application Conditions

CONDITION	RANGE	OPTIMUM
pH	6 – 9	7
Temperature, ^{o}C	10 – 70	35

Storage and Handling

Storage	Dry conditions; DO NOT FREEZE.
Handling	CAUTION If accidental skin contact occurs, wash affected area thoroughly with soap and warm water.

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