

# TECHNICAL BULLETIN



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Last revision: February 2016

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## ACTIZYME (Pellets or powder)

### DUTY

To improve and accelerate the biological degradation of organic wastes by microbial augmentation with particular emphasis on reducing odours and lowering pollution levels (eg BOD<sub>5</sub> and Suspended Solids).

Usage is recommended in all types of systems including sewage treatment plants, rising mains, pump stations, oxidation ponds, lagoons, trickling filters, anaerobic digesters, Imhoff tanks, package plants, septic tanks, composting plants etc.

### PRODUCTS

The broad generic name **ACTIZYME** covers a wide range of products formulated for specific purposes in organic waste treatment. Products include **ACTIZYME**; **ACTIZYME** Super Booster; **ACTIZYME** Anaerobic; **ACTIZYME** Compost Accelerator; **ACTIZYME** 'G'; **ACTIZYME** Septic-Flo grade, plus others designed for "one off" situations.

All products in the range combine complexes of naturally occurring microorganisms and enzymes in stable pellet form.

Use of the products will provide the following benefits:

1. Reduced odours (including sulphide)
2. Reduced BOD levels.
3. Reduced turbidity and suspended solids.
4. Reduced ammonia nitrogen in aerobic systems.
5. Reduced grease and fat levels.

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6. Reduced total solids.
7. Reduced sludge levels.
8. Improve the efficiency of the biological process thus achieve a better result in a given retention time.
9. Biological assistance in maintaining pH toward neutral.
  
10. Improved recovery time of system from plant upsets, i.e. chemical, hydraulic or organic shocks.
11. Competition for nutrients with problem organisms.
12. Production of an improved final effluent.
13. Accelerated composting times.

## DIRECTIONS

**ACTIZYME** usage is usually via an initial shock dosage to clean and condition the system followed by maintenance dosing on a regular basis to enable the microorganisms to establish populations that allow them to bloom frequently and to replace natural losses in the system.

Dosage rates vary from system to system depending on hydraulic and organic loads, but for domestic sewage rates can be as low as 0.5ppm of hydraulic loading.

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The specific **ACTIZYME** product used will depend on the circumstances and it is strongly recommended that advice be sought from a trained technical adviser.

In "difficult to treat" applications where the widest possible range of microorganisms are indicated, it may be recommended that **ACTIZYME** be used with one of the liquid preparations **ACTIZYME 'G' LIQUID**, **ACTICLEAN**, **MICROBUG** or **MEGABUG**.

## PRECAUTIONS

**ACTIZYME** is safe to use and handle - no special precautions necessary, observe normal hygiene.

For detailed information refer Material Safety Data Sheet.

## STORAGE

Keep product dry and store in a cool area of the warehouse.

## PACKAGING

100g; 450g; 900g domestic packs

3kg; 10kg; 15kg; 25kg and 40kg industrial packs.