

BioforZe OR B

Biological control of bad smells

BIOTECHNOLOGICAL SPECIALITIES

INDUSTRY

The emission of odours is a common problem in wastewater treatment plants or facilities for the treatment/storage of organic waste.

Fermentation of organic matter in anaerobic conditions leads to the formation of foul smells, normally associated with sulphated compounds (hydrogen sulphide, mercaptans), nitrogenated compounds (ammonia, amines) and volatile fatty acids.

BioforZe OR B is a product that has been developed to control the release of these odours. It is comprised of a specific combination of neutralising and perfuming agents, as well as microorganisms selected to degrade a wide range of chemical compounds that are the source of the bad smells. **BioforZe OR B** eliminates bad smells as it attacks and degrades the source of the problem: the accumulation of organic waste.

BioforZe OR B is formulated with strictly non-pathogenic microorganisms, according to European Directive 2000/54/EC.

APPLICATIONS

Treatment of the release of bad odours in:

- 1) Systems for managing and treating industrial and municipal wastewater:
 - Pipes
 - Biological treatment systems
 - Physical-chemical treatment systems
 - Sludge treatment processes: silos, band-pass filters, drying areas, etc.
 - Storage of fats
- 2) In industries that use fermentable, putrescible substances (plant and animal compounds), for example, abattoirs, tanneries and distilleries.
- 3) In the management of solid and domestic waste (handling, storage and transport), and composting processes.

ADVANTAGES

- Immediate action of **BioforZe OR B**, due to a combination of perfumes and neutralising agents.
- Preventive action, due to the following two mechanisms:
 - ✓ Prevention of the development of anaerobic bacteria, particularly sulphate-reducing bacteria.
 - ✓ Degradation of bad smelling compounds, such as hydrogen sulphide, mercaptan, volatile fatty acids, aldehydes and volatile amines.
- **BioforZe OR B** does not contain agents that mask bad smells, or dangerous chemical oxidants or bactericidal compounds.

DOSAGE AND INSTRUCTIONS FOR USE

The wide range of uses of **BioforZe OR B** makes it difficult to provide precise dosage instructions. However, as guidance, the following aspects should be considered:

- Treatment of stagnant effluent in anaerobic conditions: from 8 to 15 mg/l of pure **BioforZe OR B**.
- Treatment of bad smells emanating from very localized sources (storage of sludge or other fermentable waste): **BioforZe OR B** should be diluted from 2 to 5% in water before spraying the solution on the source of bad smells. Spraying can be automatic and carried out discontinuously (2-4 sprays per hour). As a guideline, **BioforZe OR B** should be used in doses of 10 to 200 ppm, in relation to the volume of waste to treat.

CHARACTERISTICS

Appearance: Liquid

Odour: Perfumed

Density at 20°C: 1.00 ±0.01

pH of the pure product: 6.5 – 8.5

Working temperature: 0 to 45°C

PRECAUTIONS

- Store **BioforZe OR B** in a dry place at a temperature above 0°C. In order to guarantee the life of the product, avoid prolonged storage at temperatures above 40°C. Under the recommended storage conditions, the biological activity is guaranteed for a year from the date of delivery of the product.
- For hygiene purposes, we recommend that you wash your hands with soap and water after using the product.
- In the event of contact with eyes, wash thoroughly with water.

PACKAGING

Non-returnable 25-litre plastic drums.