

# BioforZe DP 40

## DEGRADATION OF SURFACTANTS

### BIOTECHNOLOGICAL SPECIALITIES

#### INDUSTRY

Washing operations in any kind of industry can lead to effluents with high levels of surfactants, as these compounds make up much of the composition of detergent formulations.

Once they are in biological treatment systems, surfactants are a source of various problems associated with their particular characteristics, for example:

- Formation of white foams on the surface of the biological reactor and in the effluent.
- Bad aeration of the biological system, as surfactants reduce oxygen transfer.
- Toxic or inhibitory effect on the treatment microfauna and/or on the microorganisms that are responsible for the treatment, for example, the nitrifying bacteria.
- Excess COD in the effluent.

**BioforZe DP 40** is a biological product specially designed to degrade anionic and nonionic surfactants, and their main components, including aromatic compounds and fatty acids.

**BioforZe DP 40** is particularly indicated for use in the treatment of wastewater from the:

- Agri-food industry
- Textile industry
- Chemical and petrochemical industry
- Municipal wastewater treatment plants with a major problem due to the presence of surfactants

**BioforZe DP 40** is formulated with strictly non-pathogenic microorganisms, according to European Directive 2000/54/EC.

#### ADVANTAGES

- Fast degradation of anionic and nonionic surfactants.
- Reduction in the toxic or inhibitory effect of surfactants on the biological biomass.
- Elimination of foams associated with the presence of surfactants.
- Improvement in aeration of the system, and consequently reduction in energy costs.
- Stabilization of peaks in COD and suspended solids due to fluctuations in load.

## **DOSAGE AND INSTRUCTIONS FOR USE**

The recommended dose for each case will be defined by our Technical Service, after a specific study of each application.

## **CHARACTERISTICS**

- Appearance: Heterogeneous flowable powder
- pH: 6.8 – 8.5
- Bacterial count:  $4 \times 10^9$ /g

## **RECOMMENDATIONS**

- Store in a cool, dry place.
- Avoid prolonged contact with the skin.
- In the event of contact with skin, wash thoroughly with soap and water.
- Avoid inhaling the powder.
- For further information, see the product's safety data sheet.

## **PACKAGING**

Non-returnable 20-kg drums.