

# BioforZe® DP 80

## MULTIFUNCTIONAL DEGRADATION OF CHEMICAL

### BIOTECHNOLOGICAL SPECIALITIES

## INDUSTRY

#### DESCRIPTION

Biological activator based on bacteria selected according to their ability to:

- Degrade organosulphur compounds without releasing hydrogen sulphide.
- Degrade plant and animal oils and fats, various hydrocarbons (aliphatic and aromatic), organic acids, etc.
- **BioforZe® DP 80** contains *Pseudomonas* that can actively eliminate nitrogen from wastewater, via two pathways:
  - They have a very high rate of consumption of sources of carbon, and therefore their nitrogen consumption is also high, as required for metabolism.
  - When the levels of dissolved oxygen are low, *Pseudomonas* can consume nitrates and nitrites.

**BioforZe® DP 80** also contains trace elements and nutrients that promote the development of microorganisms.

**BioforZe® DP 80** is formulated with strictly non-pathogenic microorganisms, according to European Directive 2000/54/EC.

#### ADVANTAGES

- Rapidly degrades organosulphur compounds without releasing hydrogen sulphide or sulphates.
- Reduces levels of organic and ammoniacal nitrogen in effluents.
- Increases rates of elimination of:
  - Chemical oxygen demand (COD)
  - Biological oxygen demand (BOD)
- Reduces the volume of secondary sludges produced and the corresponding management costs (flocculants, transport and removal).
- Improves sludge sedimentation rate.
- Allows a rapid restart of a treatment system after accidental contamination.

#### INSTRUCTIONS FOR USE

To obtain the best performance of **BioforZe® DP 80**, the conditions in which the microorganisms develop should be respected. In other words:

- Temperature between 10 and 30°C.
- pH between 6 and 8.5, preferably 7.0 to 7.5.
- Levels of nitrogen and phosphorus adapted to BOD<sub>5</sub>, and to the COD in the treatment plant.

## DOSAGE

The dosage depends on many factors, mainly: the inflow volume, the values of COD and BOD<sub>5</sub>, the type of installation and the nature and concentration of contaminants. Consequently, the dosage and application of the product will be determined by our technical department. In any case, the treatment should start with a high dosage of the product to enable microorganisms to acclimatise and develop. Then, this dosage will be gradually reduced until a lower maintenance dosage is reached, which renews and maintains the population of specialised bacteria.

## CHARACTERISTICS

**Appearance:** Beige powder

**pH (1%):** 6.0 - 8.5

**Apparent density:** 0.60 - 0.80 g/cm<sup>3</sup>

**Bacterial count:** 4x10<sup>9</sup>/g

## SAFETY

- Keep in a cool, dry place at a temperature above 0°C and avoid expose to temperatures above 40°C. Under these storage conditions, the biological activity is guaranteed for a year from the date of delivery of the product.
- After removing the required dosage, seal pack tightly.
- For hygiene purposes, wash hands with soap and water after using the product (this is just a precaution, as the product is not toxic or aggressive).

## PACKAGING

Non-returnable 20-kg tubs.