

BioforZe DP 20

DEGRADATION OF PHENOL AND PHENOLIC COMPOUNDS

BIOTECHNOLOGICAL SPECIALITIES

INDUSTRY

Phenol is a chemical compound that is found in many industrial effluents and is generally treated using a biological process with activated sludge. However, as phenol also inhibits bacterial growth, its biodegradation can be slowed down by its toxicity at high concentrations.

Consequently, the operation of biological treatment plants that usually treat low concentrations of phenol is disrupted when they occasionally receive higher doses. This leads to intoxication and loss of the treatment biomass and thus results in malfunction of the treatment plant.

The inhibitory effect of phenol on the biological reaction of nitrification is particularly notable. Therefore, in many cases, this compound needs to be eliminated so that the medium can nitrify waste correctly.

BioforZe DP 20 contains a particular combination of microorganisms that can develop without being inhibited at high concentrations of phenol, and can degrade this compound biologically.

In addition to phenol, **BioforZe DP 20** effectively biodegrades other related aromatic compounds, such as cumene, catechol and cresol.

BioforZe DP 20 can be used to treat effluents that contain these compounds, which may come from: the chemical and petrochemical industries, the pharmaceutical industry, oil refineries, manufacturers of synthetic resins, etc.

BioforZe DP 20 is formulated with strictly non-pathogenic microorganisms, according to European Directive 2000/54/EC.

ADVANTAGES

- Helps waste treatment plants recover from toxic shocks caused by phenol and related compounds.

- Remedies insufficient performance of water treatment plants, deflocculation, and general problems at the plant resulting from variable loads of phenols.

- Reduces the inhibitory effect of phenol and increases the growth rate and viability of the biomass that degrades phenols.

- Actively degrades halogenated aromatic compounds, such as bromine and chlorophenols.



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:	4×10^9 /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.