

BIO-SYSTEMS EUROPE

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Hydrogen Sulphide removal (H₂S) EU 20 Waste Water treatment and Odour control

If a biological treatment plant becomes over loaded or stressed through low Oxygen levels naturally occurring bacteria will quickly develop and produce harmful gases of Hydrogen Sulphide and Ammonia. These gases and others such as Mercaptans can be removed with chemical and biological air scrubbers but it is far more cost effective and safer to remove the problem at source.

A reliable solution is to add a bacteriological concentrate EU20 into the water treatment process. Best results are obtained by dosing into the initial balance or settlement tank.

EU20 works in two ways, firstly by dominating the biological environment and preventing the growth of bacteria that would otherwise produce the harmful gases. And secondly to remove Hydrogen Sulphide already in the water system by biologically producing enzymes than utilise the Sulphur compounds as a food source converting them into food for other bacteria.

EU20 is a highly concentrated formulation of Group 1 non-pathogenic naturally occurring and appropriate micro-organisms which are capable of oxidising chlorinated organics under aerobic conditions and in varying concentrations. Nature has given them the natural ability to deal with these compounds and to form superior floc forming characteristics, which are essential to good process operation and control. Their use in treatment systems dispenses with the acclimatisation period generally associated with natural seeding or with the employment of unadapted seed sludge.

EU20 is designed to improve the performance of biological systems in the following ways:-

- It establishes and maintains a biomass, not naturally occurring, that is able to degrade Hydrogen Sulphide.
- It generally provides greater resistance to the effects of organic inhibitors present in wastewaters.
- It increases BOD and COD removal efficiency, thus assisting organically overloaded plant.
- It produces sludge flocs with superior settling characteristics that assist hydraulically stressed systems.
- It has greater resistance to the effect of shock loadings resulting from changes in production programmes.

EU20 SPECIFICATION

Form:	Free flowing granular powder.
Colour:	light brown
Specific Gravity:	0.5 to 0.7
Contents:	Selected micro-organisms and surface tension depressants on a Soya carrier.

When used as directed EU20 is completely safe. It is harmless to people, animals and the environment, and completely biodegradable.

PACKAGING - EU20 is packed in either 10kg bulk (no pouches) or 250gram packed into water-soluble pouches (40 per bucket).