

BIODEGRADERS INTRODUCED FOR PAPER INDUSTRY WASTE TREATMENT

BETHLEHEM, PA (April 2, 2003) – A complete line of biological products for paper industry wastewater treatment is now offered by Bioscience, Inc., under its MICROCAT® label. The microbial products are specifically formulated to solve problems such as high effluent BOD or COD, poor biosolids settling, high temperature process instability, foaming, odors and filamentous growth.

The company also manufactures laboratory, on-line and portable instruments and test kits for BOD, COD and equipment for treatability testing for treatment plants serving kraft, sulfite and de-inking operations.

The biological products designed to augment the naturally-occurring biomass in activated sludge treatment plants and aerated lagoons consist of microorganisms selected from nature for their ability to degrade various wastes typical of pulping and paper making, such as lignocellulosic compounds or sizes and pigments from de-inking operations. Various microbial strains are blended and combined with other natural biodegradation catalysts to perform rapid stepwise breakdown of difficult-to-degrade or surface-active compounds even under adverse biodegradation conditions.

In addition to degrading organics, bacterial strains have also been isolated from nature, selected for their useful characteristics and formulated into products that produce enzymes to limit the foaming typical of pulping effluents or to displace the filamentous organisms that lead to poor settling of biosolids, which is a major problem facing activated sludge systems treating pulp and paper making discharges.

One recently-introduced product, MICROCAT-ANL, contains microorganisms that oxidize sulfides to elemental sulfur, suppressing the “rotten egg” odor that often occurs when insufficient oxygen is available to the biomass. Another new product, MICROCAT-XPCW, is formulated to enhance degradation of phenolic compounds even under colder weather conditions.

Further information on Bioscience products for pulp and paper industry applications is available from Bioscience, Inc., 1550 Valley Center Parkway, Bethlehem, PA 18017, 800-627-3069, fax 610-691-2170, e-mail bioscience@bioscienceinc.com or on the web at www.bioscienceinc.com.