



## Enviro Science Technologies

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### SPECIFIC ENZYME BACTRIAL SYSTEMS (S.E.B.S.)

#### **Cleaning & Wastewater And Boosting cleaning power with SEBS**

##### **CLEANING / DETERGENTS**

Are your cleaning products plagued by stubborn stains, dull fabrics, or long wash cycles? Adding enzymes to your detergent products can relieve these common problems. EST INC. offers an array of enzyme products that are specially formulated for use in detergents and cleaning applications.

Enzymes have long been used in liquid and powder detergents as well as stain removers, pre-spotters, automatic dishwashing detergents and industrial and institutional (I & I) cleaning products. The benefits of enzyme-enhanced cleaning products include lower wash temperatures, shorter agitation cycles and cleaner fabrics. Aside from these advantages, the use of enzymes in cleaning processes eliminates the necessity for harsher chemicals that have been proven to negatively impact the environment.

All enzymes are proteins that catalyze reactions within the washing cycle. They act on stains as scissors that "cut" the staining ingredients into smaller pieces that are more easily removed from the fabric. Two enzymes commonly used in cleaning applications are protease and amylase. Proteases are necessary to break down and remove protein based stains such as blood, grass, milk, and tomato sauce. Similarly, amylases are necessary to break down and remove starch based stains such as chocolate, gravy, and baby food.

Automatic dishwashing detergent (ADD) enzymes act in a comparable manner to help remove food from the surface of your dishes. As with the addition of enzymes to laundry detergent formulations, numerous benefits can be seen with the addition of enzymes to automatic dishwashing detergents, including lower wash temperatures and shorter cycles. Enzymes used in industrial and institutional cleaning products enjoy many of the same advantages, as do enzyme products used in other applications like dental and medical instrument cleaners, pre-soaks, pre-spotters, and filter membrane cleaning.

All of SEBS cleaning and fabric care detergent enzymes are compatible with other commonly used detergent ingredients such as surfactants, builders and fragrances. Additionally, a patented coating gives the granules a uniform size, low dust and makes them safer to handle, easier to blend, and more stable for storage. For more information about our detergent enzymes, please contact us. We look forward to offering enzyme solutions to your cleaning and detergent problems.