



*Bio-Products, Packaging and Marketing Experts*



### Technical Bulletin - Lenzyme

Lenzyme is a bacteria product used in commercial and residential drains and septic systems. For 38 plus years our products have been used as a biological sewage treating agent in industrial, commercial, and municipal installations. This would include wastewater treatment plants, grease traps, wastewater treatment ponds, and all on-site septic pre-treatment facilities.



**Lenzyme**  
www.lenzyme.com

Lenzyme follows the process by which complex organic compounds (wastes) - in the presence of water, bacteria, and enzymes - are broken down or transformed into simpler compounds. This is also known as digestion. This same biological digestion process is happening every-day at wastewater treatment plants all across the USA. Enzymes, part of our formulation, speed up the union of water with a substance, after which the substance breaks up into fragments. Then the bacteria can take over and eat the waste fragments. Enzyme action is specifically targeted. For example, Protein splitting enzymes will affect proteins but not fats or carbohydrates. The enzymes contained in our Lenzyme formula are amylase (digest starches from food products), protease (digest proteins from meats), cellulose (digest cellulose in toilet paper),

pectinase (digest pectin from fruits and vegetables), and lipase (digest fats). Enzymes are organic catalysts. Catalysts are defined as substances that will speed up or alter the rate of chemical reactions without the substance being altered or used up in the process. There are several strains of bacteria included in Lenzyme and are from the bacillus family. These helpful bacteria are strong waste digesters and are found in many wastewater applications. The bacteria included in Lenzyme are harmless (no pathogens). In fact, once the bacteria consume the organic matter they turn it into CO<sub>2</sub> (carbon dioxide) and H<sub>2</sub>O (water). In addition, the bacteria can live with or without oxygen, (aerobic and anaerobic). Thus, the product is suitable for application in areas where oxygen is either present or absent. The bacterial cultures contained in Lenzyme are selected strains ideally suited to thrive in on-site sewage and wastewater management systems. Lenzyme is approved by the USDA for use in drain lines of official establishments operating under the Federal meat, poultry and egg products inspection program. Every effort has been made to apply the latest technology into Lenzyme. Our product is unique in that each ingredient is functional or contributes to the biodegradation process.



Lenzyme is only available through local contractors and is packaged in pre-measured packets of powder, powder canisters, powder bulk pails, and liquid formulations. This product may be private Labeled.

Lenzyme, Inc.

**This Lenzyme formula is manufactured and packaged for Weidner Septic**