

# Odormute™ Breakdown™ Industrial Digester Powder



Breakdown Industrial Digester Powder™ contains bacteria and enzymes that convert solids to liquids clearing blocked pipes. It functions to break down grease, starch, fiber and proteins and helps remediate (correct the “bad” things) the environment. Breakdown Industrial Digester Powder™ should be incorporated into a maintenance cleaning cycle.

Breakdown Industrial Digester Powder™ is a biological treatment designed for the food service industry. Breakdown Industrial Digester Powder™ maintains plumbing and eliminates odors.

Effective in: grease traps, sink drains, lavatory drains, garbage disposals, dish washers, ice and tap drains, floor drains, shower and bathtub drains, septic systems, dry wells, imhoff tanks, and municipal waste systems.

## The Science behind the formula

Breakdown Industrial Digester Powder™ is a blend of aerobic and anaerobic Bacillus bacteria with Protease, Cellulase, Lipase and Amylase enzymes. These “friendly and helpful” bacteria are added to a favorable environment, like a septic tank or grease trap, and the spores germinate into growing cells that activate enzyme systems and begin feeding on the available nutrients.

Breakdown Industrial Digester Powder™ contains 5 strains of Bacillus bacteria including 2 bacterial strains which are facultative anaerobes. Facultative Anaerobic bacteria work both with and without oxygen. Since grease traps, drains and septic tanks are anaerobic systems (without oxygen), it is very important to have facultative anaerobes in the formula.

Breakdown Industrial Digester Powder™ contains strains of Bacteria Producing Enzymes that produce digestive enzymes when added to organic material. The bacteria in Breakdown Industrial Digester Powder™ release lipase enzymes that attack lipids (fats) releasing fatty acids which are broken down into smaller compounds. The same bacteria also produce Protease enzymes (that break down protein from meat present in grease, for example) and amylase enzymes (that break down starch from flour for example). Cellulase enzyme, breaking down cellulose such as paper and Amylase enzyme, which breaks down carbohydrate and starch, are also present.

When pure enzymes are added to a building environment such as a drain, the enzyme is usually short-lived due to the fragile nature of the enzyme under those conditions. Pure enzymes will disintegrate in a short period of time, while bacteria are capable of colonizing and will produce more enzymes. Chemicals such as bleach and detergents added to drains and septic systems do kill off the helpful bacteria. Continued use of

Breakdown Industrial Digester Powder™ in maintenance doses is needed to combat these harmful chemicals and continue to remediate new materials added to the system.

These same enzymes occur naturally in the environment keeping plant, animal and human waste from over-running us. Enzymes are derived from all living organisms and are harmless to humans, animals and marine life. Enzymes are non-toxic, non-irritating, and non-hazardous.

Why both Bacteria and Enzymes in the formula?

Bacteria are not enzymes, they are living cells. Bacteria (sometimes called sacks of enzymes) produce and use enzymes to break down chemical compounds. Enzymes are proteins which accelerate biological reactions. Enzymes act as catalysts that bind with another chemical that is then broken down. Enzymes provide the “spark” to get the bacteria up and moving to perform their job!

Enzymes are manufactured proteins that exist in all living organisms such as plants, animals and bacteria. Their purpose is simply to digest waste. Waste is layers of fine films made up of grease, oils, fats, bacteria, germs, dust mites, non-organic material and organic micro-organisms. Enzymes attack or digest the amino and fatty acids that bond these films together and to the surface being cleaned. Enzymes are chemical catalysts that accelerate the natural biodegrading or break-down of organic material.

Why is Breakdown Industrial Digester Powder™ a powder?

Our bacteria is put into a dormant state by drying them, stopping enzyme activity. This allows the formula to withstand the blending and packaging process and temperature variations during shipping and storage. Digestive activity resumes when the formula is re-hydrated with water which activates their enzymes and stimulates the bacteria to begin feeding on nutrients.

Cautions

The potential health hazard while using enzyme or bacterial products is very low. However, care needs to be taken to avoid breathing of aerosol of bacteria spray. While Bacillus bacteria do not produce disease, under appropriate conditions it can irritate skin through lacerations or irritate the respiratory tract of immuno-compromised individuals. Wash hands thoroughly after usage. Avoid breathing in dust from the powder or aerosol when mixing Breakdown Industrial Digester Powder™ with water.

Available in 1lb zipper bags, 3lb or 5lb tubs. Also, in 10lb, 25lb, 50lb, and 100lb individual polybags in corrugated containers.

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