

**Green Cleaning for
Restaurants, Homes and
Commercial Cleaning.**

The Future of Cleaning



Background to Green cleaning.

Why Enzymes?

An Introduction to Enzyme Wizard™ “Hungry Enzyme” Cleaners

Many so-called “green” products are not really “green” or safe. What proof do you have? The market is full of companies offering bogus “green” certifications because it is politically correct and the trend.

The US Environmental Protection Agency is the only agency that can assure consumers that a product is truly “green,” eco-friendly, and poses no threat to humans, pets, plant life, marine life and the environment.

We are partnering with the U.S. Environmental Protection Agency’s (EPA) Designed for the Environment program. Many of our formulas and ingredients have already been reviewed by the EPA and third-party accreditation contractors to meet their goals for safety in addition to earning the highest level of “green” confirmation from the US EPA’s – DfE Seal of Approval.



What is the EPA’s Designed for the Environment’s Seal of Approval Program?

The DfE is a program started by the EPA to reduce risk to people and the environment by preventing pollution. This is how it works. Review teams screen the ingredients in products (cleaners are one of many different categories) to make sure that they pose the least concern among chemicals in their class.

Why “Green” Cleaners?

According to, Information Resources Inc (IRI), of Chicago, IL, sales of “green” cleaning products have exploded, with a 66% increase in the US in 2007. Today, both consumers and retailers are driving the market toward more sustainable solutions.

Consumers are more environmentally aware, and mass market chains such as Wal-Mart are pushing for a reduction in harmful ingredients in cleaning products on the market.

As consumers demand more eco-friendly products, governments are reviewing environmental standards and are working toward greener regulations.

In the U.S., the Federal Trade Commission (FTC) is working on an update of the environmental marketing guidelines known as Green Guides. The EPA, which closely monitors the effects of surfactants on aquatic life, is pushing for new detergent ingredients that lower the environmental impact of washing. Furthermore, the EPA introduced a new Designed for the Environment certification program assuring the contents of the products are actually considered green and environmentally safe. In Europe, the EU has introduced stricter chemical regulations (REACH) that will have consequences for all chemical imports and exports to Europe.

The current “Green Wave” is hampered, however, by fluctuations in raw material prices. These fluctuations are putting pressure on detergent manufacturers to closely examine and stabilize their cost base and subsequently rethink their detergent formulations.

Ernie Rosenberg, president of the Soap and Detergent Association (SDA), stressed in an interview with the Chemical & Engineering News the necessity for innovation in the detergent industry and discussed the need for companies to reformulate their products with evident sustainable benefits in order to succeed.

Benefits of Enzymes

A Cost-effective Alternative

A new enzyme-based technology takes enzymes beyond cleaning boosters, allowing ingredient replacement or a reduction of surfactants, builders or other chemicals, without compromising performance. By utilizing multiple enzymes, we can develop customized solutions to counter the current market challenges the consumer faces. The optimized formulations make it possible to:

- Replace costly and toxic surfactants used in traditional cleaners
- Eliminate builders, such as phosphates.
- Replace other toxic or harmful substances with all-natural ingredients.

The Benefits of a Multi-Enzyme Solution:

- A more sustainable cleaner. Enzymes are readily biodegradable.
- Support for the ‘compaction’ trend. Low volumes of enzymes are required to replace high-volume

ingredients such as surfactants and builders.

- Improved performance. The synergistic effect of combining several enzymes results in improved stain removal and overall cleaning beyond what single enzymes and traditional surfactants can achieve.
- Energy-efficient product. Enzymes work well even at low temperatures, allowing wash temperature reductions and thereby energy savings.

Enzyme cleaners are naturally occurring elements so they are ‘Planet-Safe.’

What does “Planet-Safe” mean?

Enzyme Wizard’s proprietary, multi-enzymatic products are super-effective, but they’re also “planet-safe”, meaning they won’t negatively affect the environment. Natural occurring enzymes actually digest fats, oils, greases and many other soils, and convert them into hydrogen, oxygen, and carbon, which dissipate into the air. So rest

assured that while you're making things cleaner, safer, and brighter in your home, you're doing the same for your planet.

Product Information

Enzyme Wizard "Hungry Enzyme" cleaning formulations contain ingredients that are naturally occurring. In fact, there are only four ingredients in our products – natural stabilized enzymes, coconut and vegetable based surfactants, natural oil fragrances and dyes, and the safest ingredient of all – your water!

Enzyme Wizard products are never tested on animals. And we make responsible raw material choices by selecting, whenever possible, effective ingredients that is renewable and biodegradable.

Enzyme Wizard enzymatic products are known as "planet-safe" because of the biodegradable ingredients and processes used to create them. In fact, we strive to minimize our environmental footprint by using state-of-the-art, energy efficient equipment to manufacture our products, recycling more than 70% of waste generated, and conserving energy and water.

Liter for Liter our Enzyme Wizard "Hungry Enzyme", all natural, cleaners are

- Less expensive to manufacture
- Cost less to ship
- Reduce the expenses associated with cleaning up polluted landfills.

These amazing, environmentally friendly products are not only more powerful than traditional toxic cleaning products, but are more effective, do not pollute the environment, and are economical to use.

And even more importantly, Enzyme Wizard's "Hungry Enzyme" products are safe around children, pets, plant life, and marine life. They truly are ... "Planet-Safe!"

Facing a challenging financial climate, an elevated concern on how to protect the environment, and the ever increasing preference by consumers and businesses to use "green" products, detergent formulators and their distributors must adapt to their customer's needs by offering eco-friendly products that are high in performance, yet safe for people and the planet.

Enzyme Wizard's all natural, multi-enzymatic household and institutional cleaners provide the safety benefits that our customers, our children, our communities, and our planet deserve.

Chemical Cleaning vs Enzyme Cleaning

The most significant aspect of “Enzyme Wizard Cleaning” versus harsh toxic chemical cleaning is with both the product and the process.

Chemical cleaning will lift dirt and debris from a surface quickly but will NOT dissolve or thoroughly destroy the bacteria or contaminant. They do not necessarily create a hygienically clean surface. Chemicals dilute and spread an almost invisible layer of debris [a micro-thin layer] that leaves a surface that looks clean and may “smell” clean but is only a masking chemical tactic in disguise

How do Chemicals Work?

Chemicals work by simply burning, melting, or corroding a substance. Just because a chemical has harmed a substance in this way does not mean it has been completely destroyed.

How do enzymes work?

Enzymes activate and energize “good” bacteria that consume bad bacteria and/or

contaminants at the microbial level. They eat protein and organic matter by feeding and turning the contaminants into water, salts, and CO₂ (carbon dioxide). Enzymes cut the bonds (tubes) that attach atoms together that make up molecules. If the tubes that attach the atoms are cut, the molecule will no longer exist in its initial state.

Whenever there is a concern with Bacteria residue from poultry, beef, fish or vegetables, chemical cleaners, especially disinfectants do not perform as advertised. All chemical claims are made from inside a controlled laboratory environment – not in the “real world” where it really counts.

Real world situations are significantly different than an incubator inside a laboratory where most validation tests are performed. Our environmental conditions can change in an instant – while the testing laboratory maintains controlled for weeks which typically does not reflect the reality for day to day applications.

Enzyme Wizard products are 100% effective at biodegrading and emulsifying proteins. Examples of proteins that we need to be concerned about include mold, bacteria, viruses and insects. All these contaminants are made up of proteins. Enzyme Wizard does a superior job at breaking their components apart and biodegrading them into carbon and water (C and O₂). It takes only minutes for this biological process to occur.

When used correctly for the appropriate application, our family of products is just as effective in dealing with cleaning and sanitizing challenges from floods and natural disasters to standard day to day industrial and commercial cleaning activities.

Optimizing the capabilities of Enzyme Wizard products for lighter cleaning demands would suggest a wait time of several minutes of product surface contact while a wait time of 5 to 10 minute for heavy and demanding cleaning would be best to allow the enzyme energy to zap and biodegrade nasty bacteria and surface contamination.

Sickness is often attributable to careless cleaning, food processing, field-crop harvesting conditions and many other careless short-cuts that are intended to quicken the cleaning process.

We have all been brought up believing that chemical cleaners are necessary and complete. Historically, this was true, however bacteria and viruses have developed immune resistance to common household cleaners (disinfectants & sanitizers). Read the CAUTION labels; chemical cleaners are harmful to our respiratory systems. Enzyme Wizard energy enzymes are food grade and do not harm surfaces or the people using it. It is not a food, but considered food grade meaning that it is safe to clean areas where foods are processed or positioned.

Simply spray, wait a few minutes and then rinse with a clean damp sponge or preferably a microfiber cleaning cloth, for a hygienically clean surface that is safe, healthy and the correct choice in today's high bacteria environments!

The 3T's of Cleaning Protocol

Time – Temperature – Turbulence

Chemicals lift dirt and debris from surfaces quickly. They do not dissolve or destroy bacteria but instead spread an almost invisible layer of micro-thin layer of debris that leaves a surface looking and smelling clean.

Time

Enzyme Wizard™ products are 100% effective at biodegrading and emulsifying proteins. Proteins of concern are contaminants that include mold, bacteria, viruses and insects. Enzyme Wizard™ effectively cleans away dirt and grime by breaking their components apart and biodegrading them into carbon and oxygen (C and O₂). It takes only minutes for this biological process to occur.

Temperature

Like any chemical reaction, it becomes intensified with higher temperatures. Molecules become more excited with higher temperatures and the enzyme

chemical activity is intensified by very warm (not boiling) temperatures. While not always possible, increasing temperatures of Enzyme Wizard™ products by mixing the concentrates with very warm water will serve to speed up the cleaning process and maximize results.

Turbulence

The addition of turbulence or “friction” helps accentuate the natural characteristics of enzymes along with increased temperature of the solution will maximize the cleaning process. Minor scrubbing and/or rubbing provide deep cleaning action.

While assisting in increasing a preferred increase in surface temperature from friction activity, this action helps to break up surface contaminants into small pieces thereby allowing the enzymes to attack the contaminants from all sides.

NOTE: Chemicals claiming to “clean” without turbulence may actually “melt”, burn, or corrode the contaminant as a result of its caustic characteristic.

A simple warm water rinses with a clean damp sponge or cleaning cloth and a secondary wipe with a clean and dry (preferably micro-fiber cloth) will produce a microbial clean surface.

Sickness is often attributable to careless cleaning and many other careless short-cuts that are intended to quicken the vitally important process of cleaning.

Enzyme Wizard™ is highly committed to providing effective and 100% safe products to people, pets, plants and our environment.

Biofilm - the unseen headache

Biofilm is a collection of bacteria encased in extracellular polymeric substance (EPS), more commonly known as slime. This slime forms on surfaces and builds up over time, allowing pathogens to flourish and leading to contamination.

Many industrial companies struggle with biofilm. Build-up and subsequent contamination can occur on any type of surface, often including food production machinery; membrane filters, and pipes, to give just a few examples.

The slime is a problematic and unpredictable source of contamination that is very hard, if not impossible, to remove with traditional cleaning chemicals.

Although various methods are used to attempt to control biofilm, they are not without limitations. Aggressive chemicals such as caustic soda and bleach are often used, but they do not provide very good performance and, at the same time, corrode materials and

machinery, endanger users, and negatively impact the environment.

Fortunately, a more efficient, safe, and environmentally friendly option is available – enzymes.

An immense problem

The market for biofilm removal solutions is large; many industries are confronted with microbial contaminations related to biofilm.

Wherever hygiene is considered important, there is a potential application. Cleaning in place (CIP) is a term denoting cleaning equipment such as pipes, tubes, and other processing equipment on the spot between production runs. CIP does not involve mechanical cleaning action, only reliance on the power of the cleaner.

In this particular application, enzymatic cleaning is the only way to get complete biofilm removal.

Biofilm can develop anywhere, but it's most often found in locations that are tough to clean. For example, biofilm often thrives

in membrane filtration units and heat exchangers in the food industry, where CIP is used.

Works on tough cases

Biofilms have very strong chemical resistance, making them a very tough cleaning challenge.

Multi enzyme solutions have been developed and tested to be effective against more than 60 different biofilms found in food processing plants, including the seven most difficult-to-remove biofilms, which do not respond to traditional cleaning.

Finding the right combination of Multi enzyme formula and detergent ingredients and then understanding how to integrate them into an efficient cleaning is the key.

A two-step, Multi enzyme method

Using an easy two-step cleaning procedure comprising a Multi enzyme mix based on enzymes followed by a biocide step is an efficient way to rid surfaces of biofilm.

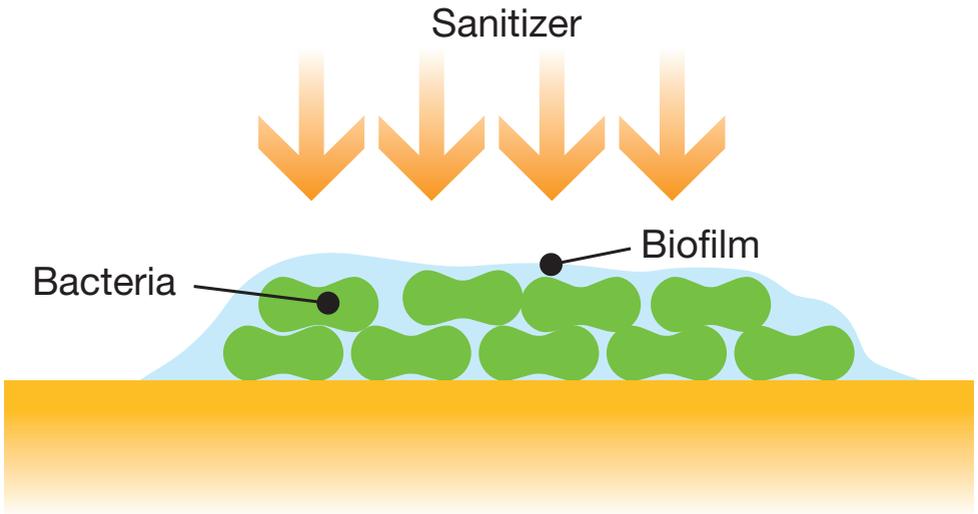
The enzymes act specifically on the EPS that forms the structure of the biofilm, degrading it and allowing the detergent to remove the biofilm.

This enables the subsequent disinfectant step to reach all the way down to the exposed bacteria and kill them.

A complementary solution

Some companies are afraid that switching to this enzymatic solution will mean that they need to completely change their cleaning regimen, but this is absolutely not the case.

Actually, the solution is complementary to a company's current cleaning procedure; it only needs to be used periodically to keep the biofilm under control. Biofilm is notoriously difficult to deal with - Enzymes are the Solution.



Understanding of Biofilm and sanitization

In the diagram above, bacteria are adhered to the surface and covered with food soils and other organic material (Biofilm).

The sanitizer is unable to penetrate the soil because it lacks penetrating or wetting properties thus it reacts with the soil forming other compounds, which may not be bactericidal.

Thus, the efficacy of the sanitizer is lost by the time it reaches the microbes.

Solution: As is indicated in the diagram above, in simple terms the bacteria clings to the surface, the tendency then is for the food and all organic material forms a layer over the bacteria thereby

trapping the bacteria below the biofilm.

As stated above the efficacy of the sanitizer is reduced, because it now has to penetrate the organic matter (Biofilm) before it gets to the bacteria to kill or remove it. Ideal cleaning Process to improve sanitization efficacy:

Step 1:- Clean surface with enzyme solution.

Step 2:- Wash down surface with plain water

Step 3:- Wipe down surface with sanitizer.

Bacteria or Enzymes?

1. What are Bacteria.

Bacteria are single-celled organisms that do not have well-defined organelles such as a nucleus. The cells are typically enclosed in a rigid cell wall and a plasma membrane. Bacteria contain all of the genetic material necessary to reproduce, and they reproduce by simple cellular division. Bacteria show a wide range of nutrient requirements and energy-related metabolism. Some bacteria require only minerals and a carbon source such as sugar for growth, while others require more complex growth media. Bacteria play an extremely important role in recycling nutrients in the environment.

Bacteria break down organic matter into simple compounds like carbon dioxide and water, and they cycle important nutrients such as nitrogen, sulphur, and phosphorus. Bacteria can migrate to areas that are rich in specific nutrients that they require for growth.

Bacteria can also attach themselves to surfaces and form communities known as biofilms.

2. What are Enzymes...

An enzyme is a protein that acts as a catalyst. The enzyme is responsible for accelerating the rate of a reaction in which various substrates are converted to products through the formation of an enzyme-substrate complex. In general, each type of enzyme catalyses only one type of reaction and will operate on only one type of substrate. This is often referred to as a “lock and key” mechanism.

As a consequence, enzymes are highly specific and are able to discriminate between slightly different substrate molecules. In addition, enzymes exhibit optimal catalytic activity over a narrow range of temperature, ionic strength and pH.

Surfactants

Surfactants form an integral part of cleaning products, they give the product its unique characteristic, depending on the specific application and result that is needed from the cleaning product

There are different types of surfactants, e.g. Non-Ionic, Cationic etc. etc.

Surfactants 'Soften' the water so it can wet the fibers and surfaces, loosens and encapsulates the dirt and prevents re-deposition of dirt on the surfaces.

Surfactants are a large group of surface-active substances with a great number of (cleaning) applications. Most surfactants have degreasing or wash active abilities. They reduce the surface tension of the water so it can wet the fibers and surfaces, they loosen and encapsulate the dirt and in that way ensure that the soiling will not re-deposit on the surfaces.

Surfactants have a hydrophobic (water repellent) part and a

hydrophilic ('water loving') part. The hydrophobic part consists of an uncharged carbohydrate group that can be straight, branched, cyclic or aromatic.

Dependent on the nature of the hydrophilic part the surfactants are classified as an-ionic, non-ionic, cat-ionic or amphoteric.

Anionic surfactants

When the hydrophilic part of the surfactant consists of a negatively charged group like a sulphonate, sulphate or carboxylate the surfactant is called anionic. Basic soaps are anionic surfactants. Over the last 50 years many soaps have been replaced with more efficient substances like alkyl sulphates, alkyl sulphonates and alkyl benzene sulphonates.

Anionic surfactants are sensitive to water hardness.

Nonionic surfactants

A surfactant with a non-charged hydrophilic part, e.g. ethoxylate, is non-ionic. These substances are well suited for cleaning purposes and are not sensitive to water hardness.

They have a wide application within cleaning detergents and include groups like fatty alcohol polyglycosides, alcohol ethoxylates etc.

Cationic surfactants

For this category the hydrophilic part is positively charged – e.g. with a quaternary ammonium ion. This group has no wash activity effect, but fastens to the surfaces where they might provide softening, antistatic, soil repellent, anti bacterial or corrosion inhibitory effects.

The most typical applications are for softeners and antistatic.

Amphoteric surfactants

For the amphoteric surfactants the charge of the hydrophilic part is controlled by the pH of the solution. This means that they can act as anionic surfactant in an alkaline solution or as cationic surfactant in an acidic solution.

Renewable and Sustainable

- All you need to know.

The majority of substances used in cleaning are readily biodegradable, meaning that they will degrade rapidly in wastewater treatment plants or in the environment.

When chemical substances reach the receiving water- 'the aquatic environment' - before complete biodegradation the potential effect becomes important. The chemical properties of the most often used detergent substances are described in the section 'functional groups', which also includes examples of substances that are generally phased out and the reason why.

Biological degradation - Environmental

The properties regarding biological degradability of a substance is of paramount importance determining the fate in the biological treatment plants used for treatment of industrial and municipal wastewater in most places in the world.

If substances degrade readily in wastewater treatment plants, they will rarely have serious environmental effects. Sometimes though, the degradation products might have environmental effects different from the original substance.

Slowly degradable substances might possess a risk, as they tend to accumulate in the environment. The consequences may be understood only to a limited extent. Hence, it can be taken as a general recommendation to avoid use of organic synthesized substances that are slowly bio-degradable.

For surfactants the primary degradation is of importance. Primary degradation means that the substance loses its original structure and properties – e.g. its surface activity. This means that the potentially negative effects in the treatment plants and in the water environment are reduced significantly. In a wider environmental perspective the complete degradation naturally is of importance.

Eco toxicity - Environmental

The aquatic eco toxicity of a substance can be measured by many different methods. Basically some aquatic organisms are exposed to the substance in a number of concentrations over a period of time.

For example, one is done with fish, exposing the fish to the substance over 96 hours and determining an LC₅₀-value – the concentration where 50% of the fish dies (LC=lethal concentration).

Alternatively one can determine sub-lethal effects. An example might be testing for immobility of Daphnias (small crustaceans), where the concentration that destroys mobility of 50% of the organisms can be determined in a similar way.

The eco toxicity testing methods are mainly suited for determining the effects on organisms in the aquatic environment. A lot of the testing of chemicals is based on such methods even though the majority of water borne chemicals is discharged

via wastewater treatment plants. As it can be understood from the above description of bio-degradability, passing through a treatment plant will change the properties of a mixture of substances quite significantly.

However, the eco-toxicity testing is relevant to determine the 'inherent properties' of the substances and as such it plays an important role in the classification of chemicals.

Bioaccumulation - Environmental

The ability of a substance to bio-accumulate – to be captured and accumulated – in a living organism like a fish is determined by the bio-concentration-factor' (BCF) of the substance. This factor determines the ratio between the concentrations of the substance in the organism and the concentration in the surrounding environment – typically water.

The BCF is influenced by the size of the molecule and the ability to dissolve in fat. Substances with high solubility in fatty substances

and small molecule size will have high tendency to bio-accumulate.

Such substances might accumulate to a level where the toxic properties of the substances might be serious for the organism.

A commonly used method to assess the tendency of the substance to bio-accumulate, is to study the distribution of the substance between the phases in an octanol / water system. This distribution is expressed by the 'octanol water distribution coefficient' P_{ow} which is the ratio between the concentrations in the two phases.

Organic substances with P_{ow} values over 1000 are normally considered as potentially bio-accumulating. This value is often expressed by the 10-log of the P_{ow} – that is $\log P_{ow}$.

In addition, the substance's solubility in water is often used as an indicator, such that high solubility will mean low tendency to bioaccumulate.

Solubility in water of more than 2000 ppm is considered to indicate that no risk of bioaccumulation exists.

Our Supplier Stepan Company Statement on Palm Oil

Roundtable for Sustainable Palm Oil (RSPO) Position Statement January 2018

Stepan Company has been a member of the RSPO (Roundtable for Sustainable Palm Oil) since 2011 and fully supports its mission to make sustainable palm oil and palm oil derivatives the industry standard. We make customer needs our primary interest and are responsive to changes in markets with regard to sustainable palm oil products.

Stepan Company has successfully completed RSPO Mass Balance Supply Chain certification at ten of our manufacturing sites globally, including all of our relevant U.S. and Europe facilities, and plants in Brazil and the Philippines. We are pleased to offer our customers RSPO Mass Balance certified products based on palm oil and palm kernel oil derivatives.

How We Work To Promote Sustainable Palm Oil and Palm Kernel Oil Derivatives:

Stepan now offers many products as Mass Balance

certified from our facilities around the world.

Stepan has certified over 75% of our manufacturing facilities that handle palm oil and palm kernel oil products. We will continue to pursue Mass Balance Supply Chain certification for our remaining facilities where such certification is relevant, with the expectation to complete by the end of 2018.

Stepan partners with its customers to help them achieve their goals related to supply chain responsibility and traceability.

Stepan has targeted 2020 for handling 100% certified PO/ PKO products, assuming continued development of these supplies and commitment on the part of our customers to invest in the cost of sustainable sourcing.

Sustainability.

At Stepan, they believe that chemistry can provide solutions that benefit the environment, promote human well-being, and meet the needs of a growing population. They

take their responsibilities to stakeholders seriously, working to maintain sustained growth of their company while meeting the needs of the people and communities they depend upon. Their sustainability program focuses on four key areas: partnering with customers, commitment to our employees and the communities we work within, reducing our environmental impact, and sustained growth.

Their goal is to continuously add value, and doing so requires that they remain at the forefront of the chemical manufacturing industry, offering new and innovative technologies to their customers as the demands of the environment and the marketplace continue to grow and change.

Partnering with Customers

Our Supplier - they are prepared to be a preferred global partner in their markets and technologies. They work with their customers to provide innovative chemical solutions that enable them to achieve their sustainability goals.

Focus on People

Our Supplier - committed to developing, recognizing and respecting people. Their Responsible Care® program and

community outreach make them an exemplary corporate citizen. They maintain a safe, productive environment in which their people can thrive and grow both personally and professionally.

Reducing their Impact

Our Suppliers - committed to improving the efficient use of energy and the reduction of waste in our processes. We will continuously strive to provide environmentally advantageous goods and services while working toward sustainable operations.

Commitment to Growth

Our Suppliers - to engage in responsible business practices that deliver sustainable value to their customers, stockholders, employees and the communities in which they operate. They are committed to profitable growth through disciplined investment, continuous improvement.

Grease & Waste Digester



Enzyme Wizard Grease & Waste Digester - works naturally to help break down waste and grease. This helps improve grease trap performance.

- Easy single dose application.
- Safely cleans clogged and problem drains, including floor drains, beverage tower drains, urinals and commodes.
- Will not generate heat or corrode plumbing.
- Naturally clears pipes and drains
- Deodorizes by attacking the organic source of odours.

What's innovative about the Grease and Waste Digester?

Multi Function Enzyme:
The Benefits of Adding a Multi-Enzyme Solution:

- A more sustainable cleaner. Enzymes are readily biodegradable.
- Having the broad spectrum of enzymes, ensures the breaking down of all the organic matter in a grease trap from FOG'S, to starch to sugars
- Improved performance. The synergistic effect of combining several enzymes results in improved grease trap efficiency beyond what single enzymes and traditional surfactants can achieve.
- Energy-efficient product, ensuring the elimination of odours deep into the drain pipe and opening up drain lines ensuring free flow, without the need for a expensive equipment.
- Enzyme cleaners are naturally occurring elements so they are "Planet-Safe", as well as being plant based and won't affect natural bacteria in the sewer system.
- Safely clears drains without toxic bleach or chlorine.

No Rinse Floor Cleaner



Enzyme Wizard No Rinse Floor Cleaner is an Industrial strength cleaner for hard surfaces in restaurants.

- Contains a proprietary soap-free multi-enzyme formula designed to break down grease, oil, and food waste. Rather than merely pushing the soil around with soap, the multi-enzyme formula destroys the grease and grime.
- Naturally lifts grease from grout lines
- Eliminates odours by destroying the organic matter. It does not just mask odours!
- No Deck Brushing! Mop & Go!!!
- Designed to discharge down the drain where the enzyme formula will continue to attack the grease and food waste-septic safe.
- pH neutral, non-corrosive and safe for all surfaces not harmed by water.

What's innovative about the No Rinse Floor Cleaner?

Organic Multi Function Enzyme
The Benefits of Adding a Multi-Enzyme Solution:

- A more sustainable cleaner. Enzymes are readily biodegradable.
- Support for the “compaction” trend. Low volumes of enzymes are required to replace high-volume ingredients such as surfactants and builders.
- Improved performance. The synergistic effect of combining several enzymes results in improved stain removal and overall floor cleaning beyond what single enzymes and traditional surfactants can achieve.
- Energy-efficient product. Enzymes work well even at low temperatures, allowing wash temperature reductions and thereby energy savings.
- Enzyme cleaners are naturally occurring elements so they are “Planet-Safe.”

Carpet and Upholstery Cleaner



Enzyme Wizard Carpet and Upholstery Cleaner is an all-natural, multi-enzyme formula designed to attack and loosen tough stains and dirt on the carpet.

- Works to destroy all organic matter, not just lift the top layer of soil and dirt.
- Rapid penetrating action which gets deep down into the fibres of the carpet to loosen the debris
- Eliminates odours in the carpet by getting to the source.
- Enhanced Formula – allows odour and stain removal without damaging fibres.
- Removes a wide range of difficult organic stains, including blood, pet, urine and grease.

Features / Benefits

- pH Neutral Formula
- Unique Multi - Enzyme formula to clean all stains
- Contains no caustic ingredients.
- Double strength enzyme formula
- Soap free, therefore will not attract dirt and grime from shoes.
- Can be disposed of down drains, enzyme will carry on breaking down organic matter.
- For use – aged care, pet stain & odours,

Carpet Shampoo



Enzyme Wizard Carpet Shampoo is an all-natural, multi-enzyme formula designed to attack and loosen tough stains and dirt on the carpet.

- Works to destroy all organic matter, not just lift the top layer of soil and dirt.
- Rapid penetrating action which gets deep down into the fibres of the carpet to loosen the debris
- Eliminates odours in the carpet by getting to the source.
- Enhanced Formula – allows odour and stain removal without damaging fibres.
- Removes a wide range of difficult organic stains, including blood, pet, urine and grease.

Features / Benefits

- pH Neutral Formula
- Unique Multi - Enzyme formula to clean all stains
- Contains no caustic ingredients.
- Double strength enzyme formula
- Soap free, therefore will not attract dirt and grime from shoes.
- Can be disposed of down drains, enzyme will carry on breaking down organic matter.
- For use – aged care, pet stain & odours,

Heavy Duty Floor/ Surface Cleaner



Industrial strength heavy duty cleaner for all surfaces. Contains no solvents.

- Contains a proprietary multi-enzyme formula designed to break down grease, oils and petroleum based problems. Rather than merely pushing the oil and grease around with soap, the multi-enzyme formula lifts and breaks down the petroleum and grease.
- pH Neutral – Soap Free Formula – Septic safe
- No Palm Oil – No Ammonia – No Chlorine
- Designed to be effective at low temperatures!
- No Heavy scrubbing needed – works well with scrubbers
- Designed to discharge down the drain where the enzyme formula will continue to attack the grease and oil residue.
- Non-corrosive and safe for all surfaces not harmed by water.
- For use on – Concrete floors, Car Parks, Outdoor Paving, Factory Floors, train platforms.

What's innovative about the 'Heavy Duty Cleaner'?

Multi Function Enzyme technology

The Benefits of Adding a Multi-Enzyme Solution:

- A more sustainable cleaner. Enzymes are readily biodegradable.
- Support for the “compaction” trend. Low volumes of enzymes are required to replace high-volume ingredients such as surfactants and builders.
- Improved performance. The synergistic effect of combining several enzymes results in improved stain removal and overall general cleaning beyond what single enzymes and traditional surfactants can achieve.
- Energy-efficient product. Enzymes work well even at low temperatures, allowing wash temperature reductions and thereby energy savings.
- Enzyme cleaners are naturally occurring elements so they are “Planet-Safe.”

Multi-Purpose Kitchen / Bathroom spray and wipe



Enzyme Wizard Multi-Purpose Kitchen / Bathroom spray and wipe is an Industrial strength cleaner for hard surfaces.

- Contains a proprietary multi-enzyme formula designed to break down grease, oil, and food waste. Rather than merely pushing the soil around with soap, the multi-enzyme formula destroys the grease and grime.
 - Naturally lifts grease from grout lines
 - Eliminates odours by destroying the organic matter. It does not just mask odours!
 - pH neutral, non-corrosive and safe for all surfaces not harmed by water.
 - Concentrated formula - specifically blended for mould and mildew remediation.
 - Contains a proprietary multi-enzyme formula designed to break down mould spores and fungus.
 - Eliminates odours by destroying the organic matter. It does not just mask odours!
- Has a rapid penetrating action that breaks down the mould spore and fungus
 - Removes and cleans accumulated debris

Features / Benefits

- pH Neutral Formula
- Unique Enzyme formula to remove Mould and Mildew
- Contains no caustic ingredients – Won't damage surface of tile or grout in bathrooms
- Only general wiping down of tiles is required.
- Product does not contain soap and will not streak on any surface.
- No build up of soap around taps and general areas.
- Can be disposed of down drains, enzyme will carry on breaking down organic matter in bathroom sinks.

Urine Stain and Odour Remover



Enzyme Wizard Urine Stain and Odour Remover is an all-in-one urine remover that does the job on all urine - cat urine, dog urine and human urine.

All urine consists of urea and uric acid crystals. Some general cleaners can remove the water-soluble components of urine (urea) but leave behind the non-soluble uric acid crystals that retain the odour and stain. These crystals attach to surfaces and are very difficult to dislodge. Any humidity or dampness will trigger the dormant crystals bringing back the odour.

Enzyme Wizard Urine Stain and Odour Remover enzymatic formula penetrates the uric acid crystals while removing the urea components, eliminating both the urine stain AND the odour for good.

Enzyme Wizard Stain and Odour Remover contains no harsh or hazardous ingredients, is biodegradable and environmentally friendly and is safe to use around humans and animals.

Enzyme Wizard Urine Stain and Odour Remover is the most economic product of its kind, yet gives you the MOST product!!

- 50% more concentrated than other brands.
- Uses plant based enzymes for faster action.
- Contains a powerful multi – function enzyme formula for immediate results.
- Australian made & environmentally friendly.
- Contains a water-miscible fragrance that evaporates, leaving no residue.
- Specially designed soap-free surfactant to penetrate uric crystals and remove odours.
- pH neutral.

All Purpose Surface Spray



Enzyme Wizard All Purpose Surface Spray safely cleans all surfaces around the Home & Office as well as general areas that need to be cleaned.

- Organic multi enzyme formula
- Breaks down the fats, oils and grease that bacteria feed on.
- Safe on any surface that can take water.
- Eliminates Foul Odours at the source.
- Gentle for Allergies, Asthma & skin irritations
- Suitable for all surfaces - Floors, walls, Glass, Stainless steel, Tiles, range hoods, BBQ's, Bench tops.
- Powerful - does not push grease and dirt around with soap & water, but the enzymes work to destroy the mess.

Features / Benefits

- pH Neutral – No Palm Oil
- Soap Free Formula – Septic safe
- Contains no caustic ingredients – No Ammonia, No Chlorine
- General wiping down of surface is only required.
- Product does not contain soap and will not streak on any surface. No residue left behind.
- Can be disposed of down drains, enzyme will carry on breaking down organic matter in all sinks.
- Cleans: grease, dirt, wine, coffee, soda & juice stains, leaving no residue.
- Deodorises by destroying the organic matter causing odours, rather than just masking them.
- Assists the natural bacteria in septic tanks to break down material.
- Eliminates biofilm (see overleaf for details).

Bathroom / Toilet Cleaner



Enzyme Wizard Bathroom / Toilet Cleaner is a concentrated formula specifically blended for removal of organic matter.

- Safely removes hard water and calcium deposits from all surfaces.
- Has a rapid penetrating action that breaks down all organics by using an organic salt (Ca).
- Eliminates odours by destroying the source of the problem.
- Replaces the need of using bleach in a washroom / bathroom environment
- Removes Biofilm that bacteria feed on, leaving a safer environment.
- Gentle for Allergies, Asthma & skin irritations

Features / Benefits

- Unique Multi function enzyme formula to break down all urine and organic matter inside toilet bowl.
- Contains no caustic ingredients – Won't damage surface of toilet bowl that becomes pitted.
- Formula includes Citric acid that is designed to remove all calcium and hard water deposits in and around toilet.
- Specially designed formula to adhere to toilet bowl surface by means of using a foaming spray head.
- Can be disposed of down drains, enzyme will carry on breaking down organic matter in drains.
- Can be diluted down to 10:1 and used as a general bathroom cleaner.

Urinal Cleaner & Deodoriser



Enzyme Wizard Urinal Cleaner & Deodoriser is an all-in-one urine remover that does the job on all urine - cat urine, dog urine and human urine.

All urine consists of urea and uric acid crystals. Some general cleaners can remove the water-soluble components of urine (urea) but leave behind the non-soluble uric acid crystals that retain the odour and stain. These crystals attach to surfaces and are very difficult to dislodge. Any humidity or dampness will trigger the dormant crystals bringing back the odour.

Enzyme Wizard Urinal Cleaner & Deodoriser pH neutral enzymatic formula penetrates the uric acid crystals while removing the urea components, eliminating both the urine stain AND the odour for good.

Enzyme Wizard Urinal Cleaner & Deodoriser contains no harsh or hazardous ingredients, is biodegradable and environmentally friendly and is safe to use around humans and animals.

- Contains Eucalyptus fragrance to add biocidal properties.

Enzyme Wizard Urinal Cleaner & Deodoriser is the most economic product of its kind, yet gives you the MOST product!!

- 50% more concentrated than other brands.
- Uses plant based enzymes for faster action.
- Contains a powerful multi – function enzyme formula for immediate results.
- Australian made & environmentally friendly.
- Contains a water-miscible fragrance that evaporates, leaving no residue.
- Specially designed soap-free surfactant to penetrate uric crystals and remove odours.
- Septic tank friendly.

Wheelie Bin Cleaner and Deodoriser



Enzyme Wizard Wheelie Bin Cleaner and Deodoriser safely cleans all surfaces around the Home & Office as well as general areas that need to be cleaned.

- Organic multi enzyme formula
- Breaks down the fats, oils and grease that bacteria feed on.
- Eliminates Foul Odours at the source.
- Powerful - does not leave grease and dirt behind, the enzymic work to destroy the mess.

Features / Benefits

- pH Neutral – No Palm Oil
- Soap Free Formula – Septic safe
- Contains no caustic ingredients – No Ammonia, No Chlorine
- General spraying down of surface only is also an option.
- Product does not contain soap and. No residue left behind.
- Can be disposed of down drains, enzyme will carry on breaking down organic matter.
- Cleans: grease, dirt, wine, coffee, soda & juice stains, leaving no residue.
- Deodorises by destroying the organic matter causing odours, rather than just masking them.
- Removes biofilm (see overleaf for details).

Oven & Cooktop Cleaner



EnviroWizard Oven & Cooktop Cleaner is a non-caustic Industrial strength Oven & Cooktop Cleaner.

- Contains a proprietary surfactant based formula designed to break down fats, greases and oil.
- Naturally lifts grease from all surfaces
- Bio-based and naturally derived product.
- No Harsh fumes.
- Can be discharged down the drain.
- Alkaline solutions, but with a low VOC and high boiling point makes it safer than most products in the market.

What's innovative about the Oven & Cooktop Cleaner?

- A more sustainable Oven & Cooktop Cleaner.
- The product is readily biodegradable.
- It is a moderately alkaline solution that has been designed to remove fats and greases
- Improved performance. The synergistic effect of combining surfactant technology with non-petroleum based solvents will remove fats, oils and greases.
- Energy-efficient product. The surfactants work well even at low temperatures, allowing wash temperature reductions and thereby energy savings.
- Surfactant technology that is naturally derived and renewable

