

Emerald Earth

Nature Does It Best

Authorized EM Retailer

Discovering the Magic of EM

*"EM is a collection of microorganisms that do the work of revival...
It has been shown to be perfectly safe for people and the environment.
We can say that EM is another indication of hado technology."*

Dr. Masaru Emoto

An Earth-Saving Revolution

EM stands for Effective Microorganisms™, an all-natural blend of beneficial microorganisms. EM is made through a natural process of fermentation. Nothing has been genetically altered or chemically engineered. EM is safe and easy to use and is listed as a fully organic product by OMRI. The secret to EM's widespread success is its capacity to naturally remove harmful toxins and restore nature's microbial balance—whether it be on the mineral, plant, animal, or human levels. EM is now being used in over 120 countries, and is being hailed as an "earth-saving revolution" that is resolving a broad variety of environmental problems.

Restoring Nature's Balance

There is nothing new about the technology of EM. Nature has been using this technology for billions of years. The breakthrough was in creating a symbiotic alliance of beneficial microorganisms that create a chain-reaction of healthy byproducts. The ingredients of EM are comprised of three main genera: phototropic bacteria, lactic acid bacteria, and yeast. These naturally-occurring ingredients work synergistically together to secrete beneficial substances such as vitamins, hormones, enzymes, organic acids, bioactive minerals, and various antioxidants when in contact with organic matter. They literally have the capacity to restore the natural balance and diversity of the micro-ecosystems.

Historic Breakthrough. EM was discovered by the microbiologist, Dr. Teruo Higa. It was first marketed in Japan in 1982 for organic agriculture. EM is now being produced in 54 countries and is being used for a broad variety of environmental-quality applications such as:

- *Decontamination services for natural and man-made disaster sites.*
- *Bioremediation of toxic and hazardous wastesites and spills.*
- *Production of organic fertilizers and silage from recycled green wastes.*
- *Natural purification and treatment of wastewaters/sludge.*
- *Maintenance and recycling of quality drinking water.*
- *Production of renewable and clean-burning biofuels.*
- *Livestock/poultry/aquaculture health maintenance.*
- *Remediation of noxious, greenhouse gasses and odor control.*
- *Highly-nutritious organic foods and natural health care products.*



San Francisco's All-Organic Presidio Golf Course using EM since 2001

What Makes EM Different? What distinguishes EM from other microbial blends is the unique phototropic strain called "*rhodopsuedomonas palustris*". This anaerobic bacteria ingredient, dating back over 4 billion years, primarily lives in volcanic magma and can survive in extremely high temperatures. When the planet was forming as one huge toxic stew, these microbes could travel through the magma as it spread over the planet's surface. Here they would feast on the toxins. Once these organisms succeeded in decontaminating most of the planet's surface, they could no longer survive in their own wastes and they re-submerged underground about 3 billion years ago. Dr. Higa's breakthrough was revolutionary, as it allowed these toxin-consuming bacteria to function above ground once again in a biodynamic and symbiotic alliance to create a chain-reaction of healthy byproducts.

