

Bioremedial Cleaning Products for a Cleaner, Greener Planet.

Environmental Solution, Inc.



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PRODUCT PREVIEW

GREEN initiatives...

Greetings!

The calendar reveals that we've just entered fall however, the weather isn't collaborating with the temperatures you'd expect with this season. It's HOT, HOT, HOT. In fact, this entire summer has provided us with a record number of 90+ degree days here in North Carolina. I know that many areas across the country have also experienced heat that has surpassed record calculations. *Is it global warming or just another hot summer?*

There are facts, figures and data to support each belief and you need to judge and determine for yourselves the appropriate reason. What I do know is this, "Planet earth is a gift like no other. You cannot take it for granted and you must maintain and nurture it like your most valuable possession." A fact that cannot be disputed. Unfortunately, this fact has been taken too lightly and we've gotten to a point that our planet is in jeopardy. We have carelessly destroyed many unique and magnificent environments through carelessness and selfish acts such as clear cutting, poisoning and dumping of hazardous wastes and these are just a few.

Right now, many conscious organizations, people, countries and agencies are pushing to preserve our planet. They are developing and implementing environmentally sound products, programs, laws, regulations and awareness to improve and change the negative impact we have placed on our planet. These GREEN initiatives from around the globe are intended to make a difference.

One such industry that I am proud to be a part of and which is committed to fostering and implementing GREEN initiatives is ISSA, The International Ship Suppliers & Services Association. Through their vast community, they have developed a "Green Cleaning" program and communication outreach in recognition of the importance of this trend toward environmental stewardship. Their website has a wide breadth of information, resources, programs and products that provide beneficial information on how to implement green cleaning initiatives. I highly recommend you take a look at their site for additional information and facts.

At Environmental Solution, Inc. **we believe that it is our responsibility to sustain the health and welfare of our environment.** Our products are developed to eradicate disasters such as oil spills and other hydrocarbon pollutants that reach our waters. Our products are not only truly "green" (natural, organic, safe and beneficial to the environment) but work better than the traditional toxic cleaning agents currently being used. **We deliver "Environmental Solutions" for a Cleaner, Greener Planet!**

Looking forward to hearing from you!!

[John Paparone](#)

"The ultimate test of man's conscience may be his willingness to sacrifice something today for future generations whose words of thanks will not be heard."

- **Gaylord Nelson**, former governor of Wisconsin, co-founder of Earth Day



NavalKleen
Small Craft Formula



NavalKleen Small Craft Formula (SCF) for RESULTS!

NavalKleen™ SCF is a highly effective concentrated liquid bilge cleaner. It was designed for recreational boat owners who want their bilges clean, odor free and environmentally safe. The unique and innovative bioremedial action of the hydrocarbon degreasing microbes in this product make it the ideal solution for the persistent boating problem of keeping bilges clean and odor free. When used as directed, this product will effectively clean, deodorize and neutralize any harmful polluting and hydrocarbons in your vessel.

The bioremedial process will convert all these contaminant's into carbon dioxide (CO2) and water. This process is unlike general cleaning products that are either harmful to your health, harmful to the aquatic environment or both. NavalKleen SCF is concentrated and therefore is economical to use as often as needed and can be utilized in both fresh and salt water environments. It's fresh citrus scent will help control "musty" or unpleasant marine odors and will work while you play. Routine use in preventative maintenance program can lead to increased cost savings provided by the bioremedial process. NavalKleen SCF is a multi-purpose cleaning agent that will remediate contaminated surfaces such as cement, decking, docks and other hydrocarbon surface spills.

Call for additional information or to place an order.

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Not surprisingly, Environmental Solution Inc. receives many correspondences from customers who are thrilled with the results of using one of our bioremedial products. Bioremediation isn't a new concept, it's been around for more than 20 years - it's just that people tend to be leery of a product or service that actually sounds "too good" to be true. It's like the old joke when someone says, "I've got some land in Florida for sale, real cheap. Are you interested?" Of course, your immediate reaction is, "Yeah, swamp land!"

So when we get a new customer, it's pretty common for them to send us "after" photo's or gratitude that the product actually did what we said it was going to do. Recently, Tom Smith a Broker Associate in Manahawkin, NJ sent us the following note which we'd like to share with you:

My brother sails the Chesapeake quite a lot and used the product, NavalKleen Small Craft Formula. I have a 38 Island Packet sail boat and he gave me some of the product to use. I use it in the bilge but mostly at the fuel dock for spills in the water and on my deck. It takes care of the diesel in seconds - and, unlike detergents the oil does not simply drop to the bottom but is "eaten" by microbes - it's very green (environmental). And only a few squirts kills any and all smells in the bilge. I can't find any ship's store that carries it but they ALL should!

If you have a similar story or experience with one of our products, please feel free to share your experience. We'd love to hear from you.

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The Danger of Hydrocarbon Pollution to our waters...

What You Can Do About It!



Over 70% of our globe is covered by water. Ninety-seven percent of all water on earth is in our oceans. Life on earth began in the oceans 3.1 - 3.4 billion years ago and then evolved from the ocean to the land millions of years ago.

Today, the ocean remains a necessity to maintain life as we know it. The oceans provide necessities such as:

- Most of the oxygen we need to breathe
- A reservoir for soaking up almost half of the globe's gaseous carbon pollutants (more than 2 billion tons)
- A food source that can be managed to help feed the world
- The ingredients for many of today's and tomorrow's medicines
- Making and effecting our weather
- An essential part of the global economy (shipping, fishing, tourism, travel)

In other words, **FOR EVERY HUMAN, ANIMAL AND PLANT ON EARTH, A HEALTHY OCEAN IS A MUST!!** Our oceans make up 99% of the living space on earth and contains about 320,000,000 cubic miles of sea water.

Oil is perhaps the most publicly recognized toxic pollutant to our oceans. Large tanker accidents like the Exxon Valdez and our most recent disaster off the Gulf of Mexico quickly become known worldwide. What many people may not realize is that hundreds of millions of gallons each year quietly end up in our oceans by other means. The following list highlights how much oil reaches our oceans from a variety of sources:

Source	Gallons in the Millions/Annually
Large Spill Accidents	37
Routine Ship Maintenance	137
Drains and Runoff	363
From Air Pollution	92
Natural seepage	62
Offshore Drilling	15

These sources result in **an estimated average of 706 million gallons of oil pollution entering our oceans each year.** Do we want to wait and see what these toxins and pollutants are doing to our water, aquatic life, the food we eat and to our planet!

We need to act now. Environmental Solution, Inc. offers Bioremedial, Natural and Green solutions for hydrocarbon contamination that effect our waters, soil and industry. The largest breadth of products for almost every type of petroleum-hydrocarbon contamination such as: **NavalKleen** recommended for No. 2 through No. 6 oil fuels, **NavalKleen II** formulated for No. 6 fuel oil, Bunker C and Marine Fuels and the **NavalKleen SCF** (Small Craft Formula) which is a unique, specially developed liquid product to reduce or eliminate hydrocarbon contamination in bilges, engine compartments and deck areas. For water surface contaminants such as oil spills, we offer **Bio-W** which is a floating absorbent designed to absorb and control spills.

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Think of all that Paper...

From the time you wake up until your head rests upon your pillow at night, **think about the amount of paper that you will come into contact with and then throw away.** You may be shocked at your assessment of this overwhelming fact. **Paper products are everywhere.** But do we realize the impact they have on our environment, from the harvesting of trees, the manufacturing and then the waste or disposal.

Here are a few facts:

- Less than 1/3 of our paper is manufactured from recycled sources, and in the U.S., 99% of the virgin fiber used for paper manufacturing comes from trees.
- The Food and Agriculture Organization of the United Nations (FAO) estimates that by 2010, worldwide paper and paperboard consumption will increase 90% from 1993. This equates to a consumption level of 528 million tons.
- U.S. businesses throw away 21 million tons of paper every year, the equivalent of 175 pounds per office worker.
- On average, every American consumes over 730 pounds of paper a year, making the U.S. the world's greatest paper consumer. A 12-foot high wall stretching from New York City to Los Angeles could be built with our annual office and writing paper waste.
- The 300 million rolls of fax paper we use each year is enough to go from the Earth to the moon 26 times.

Maybe its time we re-evaluate our dependency on paper and what we can do to make a difference.

Benefits of Recycling

Recycling one ton of new paper translates into the savings of:

- 17 mature pulp-producing trees
- 78.75 gallons of oil
- 7,000 gallons of water
- 41,000 Kilowatt hours of energy
- Additionally, air pollution is reduced by 60 pounds and three cubic yards of landfill space are conserved.

If each copier in the U.S. made 5 fewer copies a day, we could save up to 1.4 million trees.

Paper fibers can be recycled about six or seven times before they begin to disintegrate.

What Simple Things You Can Do:

- Follow your office/company recycling program and if there isn't one - insist one be developed and implemented.
- Consider buying recycled office/paper products.
- Whenever possible, print double-sided.
- Use the back of old documents as scrap paper.
- Send electronic copies instead of paper and suggest that recipients don't print a copy unless absolutely necessary.
- Preview documents on screen and consider if they really need to be printed.
- Copy materials only as needed.
- Initiate an electronic filing system for documents that may be needed often or if multiple persons need copies of.

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Consider Recycling!



How to make a difference

- Recycling conserves natural resources for the future. If we start reducing the amount of materials we throw away and recycle more now, we will preserve more natural environments for future generations.
- Recycling prevents the emissions of many greenhouse gases and water pollutants by reducing the amount of energy used at production plants. Recycling recovered materials, such as newspaper, plastic bottles, and aluminum cans saves more energy than from virgin materials used to produce new products.
- Recycling supplies valuable raw materials to industry. Companies often use recovered recyclables to make products. For example, "most car windshield companies use recovered clear and green glass to make new windshields" (Burkhardt).
- Recycling creates various jobs, including sorting recovered materials at local recycling centers, producing new products, and creating new technologies.
- Recycling stimulates greener technology development. As technology advances, so do the products. The better products create a bigger demand allowing the need for businesses to produce more supply.
- Recycling reduces the need for incinerators and landfills. People and the environment benefit from less

pollution being exerted into the atmosphere. Recycling also lessens the burden placed upon landfills by allowing them to last longer. Thus, natural habitats are allowed to thrive without much threat due to recycling effort

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HYDROCARBON POLLUTION IN OUR OCEANS...

Thousands of other pollutants also end up in the ocean. **More than 2.8 billion gallons of industrial waste water per day** are discharged directly into U.S. ocean waters (U.S. EPA, 1994), excluding electric utilities and offshore oil and gas effluents. Heavy metals released from industry, such as mercury and lead, are often found in marine life, including many of those often consumed by humans. The longer-lived, larger fish such as king mackerel, tilefish, swordfish and shark often contain harmful levels of the pollutant mercury which can harm the developing brain and nervous system of children and fetuses. (For more information, see the Air Pollution area). The list of dangerous chemical pollutants is long, including chemical contaminants like pesticides, pharmaceutical agents, and biological contaminants like bacteria, viruses, and protozoa. Dioxins from the pulp and paper bleaching process can cause genetic chromosomal degradation in marine animals and may even cause cancer in humans. PCB's (polychlorinated biphenyls), which usually come from older electrical equipment, typically cause reproduction problems in most marine organisms. Poly-aromatic hydrocarbons (PAH) are another source of marine toxic pollution and typically come from oil pollution and burning wood and coal. These PAH's are responsible for causing genetic chromosomal aberrations in many marine animals.

Many cruise ships have become more like floating cities, transporting millions of people into the most pristine ocean environments around the world. They have been operating with little to no environmental regulations. The lack of regulation by this industry has caused a great deal of damage to sensitive marine environments and is of growing concern as the industry is rapidly expanding. Ships have grown from typically accommodating 600-700 people in 1970 to ships that now carry over 5000 people. A typical 3000 passenger ship can produce 255,000 gallons of waste water and 30,000 gallons of sewage every day (The Ocean Conservancy, 2002, p 13 & 15). All of this waste is normally discharged directly into the ocean and it is legal to do so in most areas provided the boats discharge 3 nautical miles from the coast. This waste can contain bacteria, pathogens, medical waste, oils, detergents, cleaners, heavy metals, harmful nutrients (nitrogen amongst others) and other substances. These substances can be brought back to coastal areas as well as cause serious damage to the aquatic life further out in the sea, including posing a risk for contaminating seafood.

"Unless urgent action is taken to tackle the sources of the problem, it is likely to escalate rapidly."

What can you do about it?

1. **Never pour any oil or other chemicals onto the ground or into drains. Many of these chemicals make their way to the ocean. Even if you live far from the ocean, the chemicals from your area can be transported to the ocean in streams and rivers. Maintain your vehicles to prevent oil from leaking onto the road which will then go down a drain and into the water.**
2. **Recycle all oil and chemicals. Most communities have recycling centers that will accept used oil and other chemicals for recycling.**
3. **Reduce the use of hazardous chemicals by choosing household cleaners, pesticides and fertilizers which are not toxic to your surroundings. If chemicals are toxic to the oceans, they are also a danger to you and your family. Look at our Non-Toxic and Natural Page for possible alternatives.**
4. **Consume less pesticide-dependant foods thereby reducing the amount of pesticides used.**
5. **Landscape with native plants that do not require fertilizers and that need less water. Less irrigation results in less runoff, while less chemical application keeps runoff clean.**
6. **Compost your household, kitchen and yard wastes, which makes an excellent fertilizer.**
7. **Limit paved surfaces as they prevent water from percolating down into the ground, causing runoff to accumulate. Paved surfaces also transfer heat to runoff, thereby increasing the temperature of receiving waters. Native species of fish and other aquatic life cannot survive in these warmer waters.**

Material/s and information for this article taken from www.see-the-sea.org.

"Awareness begins with knowledge. Learn, think, and act to reduce the human impact on the oceans"

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