

**OPEN LETTER  
TO THE PRESIDENT  
OF THE UNITED STATES OF AMERICA**

**The Honorable Barack Obama**  
President of the United States

Dear Mr. President,

I would like to take a few minutes of your precious time to consult with you about a very important matter to our nation and especially to four states of the Union. This is regarding the disastrous consequences of the British Petroleum Oil Spill in the Gulf of Mexico and our commitment to demonstrate, at our cost, an advanced new Italian technology that will safely and ecologically decontaminate the affected areas.

We know that you and the government are dedicating all the attention to this important matter, implementing the necessary technologies and resources to mitigate the damage, and at the same time we understand that the BP executives are working around the clock to impede further damage to the Gulf of Mexico and the population in the four states affected. We the citizens of this country thank you, the government, and BP for the tremendous effort to somehow correct the problem.

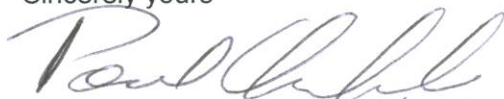
But the reality expressed by the experts is different and this tragedy will impact even further if we don't take serious additional steps to diminish the damage. As you may already know, the damage to the marine life and the coast, plus the economic impact to millions of citizens in the four states, will pale compared to the severe health consequences that the acid rain may produce to the population due to the evaporation of the contaminated waters in the Gulf of Mexico.

Taking all of this into consideration and with the only objective to help my country, I would like to kindly propose to you, the government and the BP executives, a new technology from Italy that will ecologically decontaminate, in a large percentage, the water and sand in the affected areas without further damaging the environment. If you or the agency in charge allows us to do a proven demonstration, we are ready and willing to pay the full cost of the test, a few hundred of thousands of dollars, as a contribution to our nation and the State of Florida where we live.

**We understand that you and the agencies in charge may have received hundreds of letters with different technologies and all kind of propositions, but we are not asking you to believe in this technology at the moment, we are only requesting you to give us the opportunity to prove this technology works at no cost for the well being of our nation.**

I would like to thank you in advance for your consideration and taking the time to read our letter, please be so kind to contact me at your earliest convenience for further information.

Sincerely yours

  
**Paul Chegade** 8/6/2010  
President

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## **IMPORTANT INFORMATION**

Dear Ladies and Gentleman:

As is known, from the May 3, 2010, I had been working on the serious problem that welcomes us in relation to the pollution in our coasts due to the disaster in the Gulf of Mexico this year. Since that date, I been sending letters to both, the President of the United States and to all those governors in the states involved.

Personally, I believe that we cannot continue waiting for the bureaucratic processes without immediate results. (As our habitat and economy are destroyed). Consequently, together with a group of Americans and Europeans entrepreneurs I had taken the decision to accelerate this process and make a free test of effectiveness with our products and technologies that will clean the contaminated areas. This process is to be made as soon as possible on behalf of our nation, for the protection and care it deserves. Our group presented a solution to this tragedy by making available new technologically advanced equipment from Italy that will effectively clean the sand and sea of the Gulf of Mexico <http://www.mpcd.info>

No entity in charge or the media has mentioned the truly profound consequences of the tragic BP oil spill event. The oil spill contamination is not only destroying the Gulf of Mexico's marine life for many decades, but it will increase the risk of cancer and other serious diseases that could be fatal to the population of the affected four states of the union due to toxic acid rain. Acid rain will be one of the direct consequences of this devastating accident due to the evaporation of the polluted waters in the Gulf of Mexico.

### **EFFECTS OF ACID RAIN IN HUMANS**

Mr. Chehade explains that Acid Rain looks, feels, and tastes just like clean rain. The harm to people from acid rain is not direct. However, the pollutants that cause acid rain, sulfur dioxide (SO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>) do damage human health. These gases interact in the atmosphere to form fine sulfate and nitrate particles that can be transported by the wind, sometimes traveling hundreds of miles and are inhaled deep into people's lungs. Fine particles can also penetrate indoors. The result is drying of the skin and bacterial infection. This can be unsightly and deadly.

How does Acid Rain affect humans? Many scientific studies have identified a relationship between elevated levels of fine particles and increased illness and premature death from heart and lung disorders, respiratory problems such as asthma and bronchitis, dry coughs, headaches, eye, nose, throat irritations and damage or lungs.

It can cause liver problems and can give you diarrhea. High mercury content can be deadly. The mercury is held in certain organs and tissues of fish and does not directly affect them, but the mercury can be linked to cause brain damage in children along with nerve disorders. Aluminum, which can also be present, leads to kidney problems and to be related to Alzheimer's disease.

The final effect on humans is to our drinking water. As the content of our water becomes more acidic, it can react with lead and copper water pipes, which eventually contaminate our water. Too much copper in drinking water also causes kidney damage as well as liver damage. - What are some of the indirect effects of acid rain? Acid rain adversely affects lakes and streams,

forests and other vegetation, When the soil becomes toxic it is nearly impossible for us to plant our crops. Crops will either die or become toxic. If we consume these unhealthy crops, we will most likely get sick or even die.

### **Mechanism of the Product's Action in the presence of Hydrocarbons**

We propose to clean the areas, the sand and the vegetation "In Site" with Biodegradable Chemicals MPCD and Biological Acceptable Products BIOSINFO that are Environmentally Friendly to accelerate the process of Biodegradation. To do that we need heavy machinery to mix the products with the soil and sand and a lot of hand labor "In Site", this way we solve two problems: - The Contamination and the Unemployment in the area. The machinery we propose is to treat the contaminated residual to leave the place clean and in its original condition. The most important is to avoid the necessity to transfer the contaminated material to the chemical landfill.

### **MPCD**

#### **1. Introduction:**

The physical principle at the base of the product is the biodegradation of the hydrocarbons through the breakdown of their molecular chain providing a conditioned nutrient for the microbial population present in the atmosphere.

Unlike traditional methods like bio-pile or Farm Lands that take very long periods and very specific conditions to operate, the product renders the hydrocarbons readily digestible facilitating and speeding up the hydrocarbons' biodegradation by acting as a catalyser for the microbial/bacteria activity dramatically reducing the time required to decontaminate the polluted site which is now counted in days rather than months needed with the traditional methods.

The surfactant present in the product breaks the heavy hydrocarbon chain ( $C > 12$ ) into individual smaller particles or monomers (molecular disgregation). The sodium metasilicate (like all the alkaline silicates) comes in contact with the hydrocarbons to form silicate compounds. Such silicate compounds have the characteristic of low solubility, not being toxic and easily solvable. Moreover the alkaline silicates create a gelatinous film that isolates the monomers (molecular disgregation) that have precipitated and as soon as they have formed avoiding their recombination into the original hydrocarbon's chain. The sodium carbonate has the function of stabilizing the precipitation process and the entrapment of the monomers.

After the finalisation of the cycle including the atmosphere micro-organisms' action which will bring the polluted soil within the European norms the residues will be silicates and  $CO_2$ .

Other major advantages of this technology are:

- The decontamination can be performed right at the polluted site,
- By decontaminating at the polluted site there is no need to transport the treated soil to expensive special and approved discharge sites.
- This technology does not require special equipment allowing the operator to easily reach polluted sites otherwise difficult to attain with the machinery normally used by traditional technologies.

The Product's action can be summarised as follows:

BREAKING OF THE CHAINS  
(MOLECULAR DISGREGATION)  
ENTRAPMENT OF THE POLLUTER  
FORMATION OF AN EMULSION  
ACTION OF DEGRADATION  
(ATMOSPHERE MICRO-ORGANISMS)

## 2. Product's Chemical Composition

- Sodium Metasilicate (0,16%– 1,1%)
- Sodium Carbonate (0,15%– 0.9%)
- Surfactant (0,02% - 0,08%)
- Water (97,5% – 99,1%)

## 3. Product Specifications

The product doesn't contain toxic solvents and it is classified as follows:

- Rapidly and readily biodegradable (tests made as per OECD 301-B regulations)
- It is not an irritant to skin. (test made according to the regulations OECD 404)
- Animals do not show toxic side effects when administered a single oral dose (test made according to the regulations OECD 401)
- It is not an irritant for eyes (test made according to the regulations OECD 401)
- Silicates and sodium carbonates are allowed even in biologic agriculture according to the Reg. CEE 2091/91 and its successive modifications
- The Quality Test made by Chemical Specialties Manufactures Association assigned a high cleaning index
- The product doesn't contain arsenicals, iodine, formaldehyde, mercury compounds, phenols, abrasives, free hetero glycolic acids, soaps, free sodium or caustic potasil, oil, distillations of any kind and sodium orthosilicate.
- The product is not inflammable.
- The product is a powerful absorbent and is particularly efficient in the eliminations of smells, though being odourless itself.

## **BIOSINFO:**

Microorganisms BIOSINFO natural, non-pathogenic, are associated with natural mineral materials compatible with them and variable particle size and adapted - (carbonate of marine origin, volcanic stone, aluminum silicate). These brackets facilitate nesting and fixing bacterial biofilm, providing a wealth of trace elements that makes them more active, stronger, more breeding (metabolic activity and enzyme kinetics).

Micro-organisms associated with these minerals create their own ecosystem stability, support high toxic concentrations (eg up to 250 mg / l free chlorine), avoid the loss of exo-enzymes for

the colonization and continuous flow processing continuously, creating specific food chains, opening the door to ordinary bacteria. Depending on their specificity, micro-organisms are fully committed to their work degradation toxic pollutant effluent. The nesting allows the coexistence of bacterial strains mutually incompatible.

The phenomena of energy conservation between bacterial membrane polarization and wall supports explain minerals of electronic, ionic or metallic.

#### TECHNICAL DATA OF MICRO-ORGANISMS (natural - no-GM)

\* Micro-organisms in Group 1, requiring no special precautions, banal saprophytic, ie all bacteria, fungi, viruses, except those designated in the following categories and whose use is study or legally prohibited.

\* These micro-organisms have been audited by search and enumeration of common germs and research and counts of pathogenic bacteria commonly sought in investigations by a laboratory official - no pathogens, Salmonella Enterobacteriaceae pathogens, anaerobic sulfite- reductive and Staphylococcus aureus

\* PHYSICAL PROPERTIES: bulk density of between 0.88 and 1

Appearance: white powder or a light gray sand - pH: 7 to 8.4

\* COUNTING BACTERIAL MEDIUM: Over 10 (4) cfu / gram.

#### MOLECULAR ADSORPTION

The extreme porosity, up to 39% of total minerals, offers an S / V available about 400 m / cm<sup>3</sup>. They operate like a real "molecular sieve" - the molecules in the medium to be treated, are absorbed and trapped in the pores, in decreasing order, with water as far ahead:

H<sub>2</sub>O => NH<sub>3</sub> => SO<sub>2</sub> => H<sub>2</sub>S => CO<sub>2</sub> => CH<sub>4</sub>

The bacterial breeding will transform into a single molecule of ions in polluted water.

#### Eutrophication - DYSTROPHISATION

The effect of flocculation of TSS, promotes action by restoring the purifying and processing phytoplankton photosynthesis in favor of zooplankton. The decrease of soluble phosphate is primarily involved in this action.

The strong presence of bacterial colonies in our natural environment, allows degradation "as and" extent of organic matter (nitrogen). The micro-algae (blue - green) · are rivaled in their development by nutrient competition.

For eutrophication, the treatment is often valid for several years, at an initial shock treatment, then maintenance doses reduced every year.

The application periods are most favorable from March to June and from September to November.

#### EFFECT ON ORGANIC VASE

The rapid implementation of our micro-organisms on the funds, will allow a complete mineralization of mud or oil, with an observable reduction in the early months.

The volume reduction is due to the amount of material removed at the dissolution of some mineral ions by balancing the water and the release of interstitial water retained by the organic material (a sponge) after degradation. Is the result of successive phenomena:

- Precipitation in SS on the bottom
- Absorption of organic matter and nutrient minerals in our formulations

#### **THERMAL DESORPTION PROCESS:**

Thermal desorption is a technology that utilizes heat to increase the volatility of organic contamination (hydrocarbon) such that they can be separated from the soil.

Soil is heated in a chamber in which water, organic contaminants and certain metals are vaporized. A gas or vacuum system transports vaporized water and contaminants to an off-gas (i.e. air emission) treatment system. The system aims to volatize contaminants, while attempting not to oxidize them.

In order to accommodate all industry needs, Thermo Desorption Process has developed a safe and reliable mobile thermal desorption system (the Thermo Desorption Process Plant) which involves three difference phases:

- pre-treatment and feeding compartment (storage, crushing, screening, blending, pre drying, power sector to heat treatment, etc)

- thermal desorption (proper desorption treatment system, distribution systems and /or removal of pollutants in the gas phase: double desorption, post-combustion chamber, a unit of abatement of gas pollutants, etc. )
- cooler plant and heat recovery (compartment that includes facilities for the exchange between the gaseous products of thermal treatment, energy recovery, storage units, solid waste collection process, the units of continuous monitoring of gaseous emissions, etc.)

Each of these processes comprises one or more modules that are installed on mobile trailers that operate independently one from another.

The Thermo Desorption Process plant can, therefore, meet all on-site treatment needs, making it one of the most flexible solutions capable of being customized for all customer needs. For example, thanks to a heater exchanger, approximately 80% of heat energy used in the process would be recovered. This allows to break down energy request; so consumption of natural gas for heat production in thermal desorption is very low, reducing atmospheric emissions. Thermo Desorption Process's thermal desorption recover the intrinsic energy kept in the organic pollutant as well. In this way, thanks to overthrow of natural gas consumption, operating costs are really light.

#### AIR EMISSIONS:

The pollutants resulted are drawn to an afterburner chamber. What comes out from that are just harmless substances. Through a system of continuous detection (FID) air emissions are always checked to ensure compliance with the limits of laws. Anyway, what comes out from the chimney is just water vapor, CO<sub>2</sub>, CO and some oxide of substances like sulfur and nitrogen. The on line control allows us to keep checked the situation and act quickly if necessary.

#### SECURITY SYSTEM:

All of the parts of the plant for thermal desorption are made following the ATEX directives. ATEX is the conventional name of Directive 94/9/EC of the European Union for the regulation of equipment intended for use in hazardous areas. The name comes from the words and *Atmospheres Exposable*.

Methane is a lesser risks fuel than other liquid fuels.

That lessens the dangers for environmental and people.

#### WHY OUR SOLUTION SHOULD BE CHOSEN:

- Low methane's consumption
- same general benefits of the fixed heat treatment (no formation of dioxins and furans, contaminated soil still retains much of the organic and chemical properties, etc..) and, thanks to the heat recovery, lower energy demand
- Recovery for the 100% of decontaminated soil
- costs of treatment are lower compared to ex-situ treatments: processes are very easy to put into practice by eliminating problems such as transportation of material to place of treatment
- Plant can be moved quickly between different contaminated areas
- Thanks to our experience the system allows a wide range of solutions to different requirements, providing the flexibility that other systems often do not have;
- the possibility of having additional modules for water, natural gas and electricity: they can operate in any situation and with every type of material. The customer only needs to ensure a stable base for the modules (or cement paving);

### **OILSEP ECOLOGY:**

#### **RECOVERY AND SEPARATE HYDROCARBONS SPILLED INTO WATER.**

Oilsep Ecology, is an innovative equipment for the primary separation of two immiscible liquids. One of its primary uses is the recovery of hydrocarbons accidentally spilled into water.

Oilsep works basically on a physical and natural principle. When hydrocarbons are poured into open or closed waters (i.e. oil , fuel , diesel oil, mineral oils), since they have a lower density than water, they float. In the Oilsep equipment, liquids are conveyed through a floating suction pipe, located on the surface, into controlled acceleration chambers.

Once treated by Oilsep, the hydrocarbons will be recovered at a rate of up to 99.99%. The water composition is not important: salt or fresh water has no influence on the treatment itself and the equipment will work in both salt and fresh water. Right after the treatment into the Oil Sep machine the recovered hydrocarbon can be reused for its original purpose for which it was originally conceived.

Oilsep differs from all other similar systems on the market because it does not use filters, centrifuge systems, coalescent elements, chemical additives or disc scrapers. Oil Sep has a superior effectiveness, does not require frequent maintenance, does not have negative environmental effects and is comparatively less expensive.

Oilsep finds applications in various fields.



It can be used for treating industrial process waters, where it contributes consistently to reduce, up to 80%, the consumption of process waters with the consequent reduction of use and disposal costs.

Particularly effective is its use in the field of ecology for the recovery of oily substances and hydrocarbons accidentally poured into seas, rivers, lakes and in oil plants and platforms, assuring an ecological and clean treatment (avoiding the use of chemical additives or solvents) combined with a drastic reduction of the costs for the disposal of pollutants.

Oilsep has the following advantages:

- ease of transportation;
- low noise ( maximum noise level of 74 dB)
- requires little energy (1.5 HP with the standard machine);
- has a high level of efficiency over time;
- requires little maintenance and few operators, both in quantity and in specialization, for its standard operations.
- Its minimal configuration can separate around 100,000 liters (26,385 gls) of pollutant in 24 hours with a 5 KW consumption.
- The machinery is available in various dimensions and with different configurations, easily able to treat over 300,000 liters (79,000 gls) per day.

Oilsep is being successfully used by Fiat, Bosch and Dürr and is currently working in Oman, Italy and India.

<http://www.mpcd.info>