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Sustainable  
Bottling Today**



**PURE  
FORM  
SOLUTION**

white label program



**100% Bio-Degradable  
Bottle & Cap**

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# PURE FORM SOLUTION



# World in Crisis

Today the oceans are paralyzed by mountains of plastic islands around the world now believed to be the mass of Mexico or perhaps even Brazil.

88% of the ocean surface is polluted by PET plastic waste. Up to 14,000,000 pounds of PET waste enters the ocean every year.



The mass destruction caused by PET products in just a few decades is almost unbelievable. Yet, sadly it is only too true. Attempts at recycling while admirable have proven to be largely ineffective - **90% of the world's plastic production is not recycled in any form.**

Thus, our planet and especially the oceans have become a massive garbage dump. It simply cannot continue. Specifically, the areas of major and immediate concern can be broken down into the following categories:

- 1) food safety
- 2) destruction of our fisheries and natural resources
- 3) climate control



## Food Safety

PET products, including water and other beverage bottles, are petroleum based. Research conducted at New York University Fredonia confirmed that plastic PET bottles contain poly propylene, poly styrene and nylon as well as industrial lubricant used in their manufacture.

These toxins are released into the liquid determined at a rate largely controlled by the amount of heat during transport. Bottled water prices are extremely competitive. It is rare when water is shipped at a higher refrigerated price.

Everyone has heard that it is unsafe to microwave PET containers or to drink water from a bottle left in a hot car. While both statements are true the problem reaches far beyond a hot car. Temperatures in unrefrigerated containers can reach temperatures in excess of 140° degrees Fahrenheit.



So, by the time water reaches the air conditioned supermarket it has already been exposed to extreme temperatures. Thus, toxins found in the petroleum bottles have already been released into the liquid beverage and are ready for human consumption.

In January 2010 the FDA, which had previously said that PET bottles were entirely safe, took a new position and began to look at the potential health issues presented by leaching from PET bottles. Their European counterpart the **EU food safety authority has taken the position that small micro plastic particles created from the breakdown of PET products can enter the bloodstream and organs via the intestinal wall.**



## *Destruction of Fisheries and Natural Resources*

Today it is believed that approximately 30% of the worlds 20,000 species of ocean fish are contaminated with micro plastics. Simply put, as PET products slowly breakdown snowflake like particles peel away and appear as food to sea life.

The fish eat the micro plastics and we eat the fish. Major supermarkets around the world are now beginning to turn away from wild seafood, opting instead for controlled farm raised plastic free environments. In addition to fish, ocean birds of all varieties and approximately 50% of sea turtles have ingested PET.



Additionally, thousands of sea creatures become entangled in plastic and die annually. Over 100 million marine animals die each year from plastic waste. By the year 2025 it is believed that the pounds of fish in the ocean will outweigh plastic but a ratio of only 3 to 1. It is estimated that if nothing is done on a large scale plastic will outweigh the pounds of fish by year 2050.



# Climate Control

This subject continues to dominate world conversations in the areas of temperature extremes, melting of ice caps, change of landscapes and related issues. Yet very little is said about the effect PET products and microplastics are having on this catastrophic problem.

Approximately 50% of the planet's oxygen comes from the ocean. Plankton is the greatest producer of the planet's oxygen. These organisms capture carbon through photosynthesis. Unfortunately, these live organisms also consume micro plastics. Plankton remove and store large amounts of atmospheric carbon which reduces carbon content and thereby mitigates the greenhouse gas effect.

While micro plastics are not the only cause of continuing world disappearance of plankton, it is certainly a large contributor. A vicious cycle has emerged whereby micro plastics destroy plankton which produces the world's oxygen and takes carbon from the atmosphere which creates warmer oceans. Increased heat in the oceans then destroys even more plankton. At some point in the not too distant future, our ocean food supply will be totally destroyed if this destructive cycle is not reversed immediately.



## The Solution

Truthfully, we currently lack the capacity to change the world in a day. Pure Form Solution has raced against the clock for the past six years in pursuit of our mission to produce a 100% organic bottle cap and label. Unfortunately, over two years the world pandemic halted our research and development with some of the world's leading scientists.

However, with much persistence and determination by many of our allies in the scientific community we have at last reached phase one of our goal. Our bottle is also suitable for acidic fruit juices, milk jugs, and countless products currently made from PET plastic. Other companies have already made great contributions with the production of organic drinking straws and related products. Today we have basically all PET products in our sites.

Research and development are progressing daily at a rapid pace. Our association with Single Use Solutions and Total Corbion have greatly helped us along the way, and will continue to be invaluable as we go forward increasing production facilities and volume around the world.

Pure Form Solution **bottle** is 100% organic. The bottle and cap are made from sugar cane and the label is grass. The resin also includes trace calcium which when ingested by sea life is actually healthy. There is absolutely no petroleum or non-organic substance in this product.

Thus, when the bottle burns there is no smoke or carbon emission. Actually, when one lights a match to the bottle it literally smells like caramel candy. When it cools the caramelized sugar cane actually taste sweet. This phenomenon led us to the University of Illinois and Dr. Matt Wheeler at the University of Illinois.

The University is a world leader in development of animal feed. You guessed it! We are recovering every bottle possible for conversion into a sweet animal feed. Other uses for the return bottles are numerous.

Perhaps the most promising is the recycling of empty bottles for the production of 3-D printing material. Collectively we are producing millions of bottles per month with total production in the United States. This is just the beginning, but it's a significant start! Join us in our quest to make the planet healthier and safer for generations to come!

# A OUR COMPANY



PURE  
FORM  
SOLUTION

- Pure Form Solution is the provider of a 100 % plant made bottle, label and cap.
- Collection of used bottles is a primary goal. The bottles are recycled into 3D printing filament ,animal feed and other nature driven projects.

## Benefits of our plant-based bottle

- 100% plant based
- Excellent source of resin for the 3D printing filament
- Provides a lower CO2 footprint
- Industrial compostable
- Safe for ingestion by fish and other sea life
- No leaching of harmful toxins into the water – ever
- No toxic emissions into the atmosphere when burned

## Disadvantages of fossil plastic bottles

- PET bottles are made from petroleum oil. When heated harmful toxins are released into the liquid which can cause inflammation and serious health problems
- Break down into microplastics which are toxic for the sea life
- Adds CO2 and toxins into the atmosphere
- Can remain in the oceans for 100s of years
- Produces high carbon emissions when burned

