



PURE ONE ENVIRONMENTAL, INC

INTRODUCES THE MOST **ECONOMICAL** TREATMENT SYSTEM
FOR
AQUACULTURE FARMING OF **SHRIMP** AND **PRAWNS**

UNPRESIDENTED RESULTS

- INCREASED EMBRYO SURVIVAL RATE TO – to over 90% or more
- INCREASED WEIGHT OF SHRIMP and PRAWNS – up to 25% or more
- INCREASE PRODUCTION RATE OF SHRIMP and PRAWNS – 50% or more
- DECREASED GROWING TIME.OF SHRIMP and PRAWNS – Up to 2 weeks

CUSTOMERS COST AS LITTLE AS

ONLY \$ _____ per WEEK per MILLION GALLONS
OF WATER TREATED for an 18 WEEKS CYCLE.

Or \$ _____ per WEEK per MILLION LITERS
OF WATER TREATED for an 18 WEEKS CYCLE.



PURE ONE ENVIRONMENTAL INC.

Purify Undesirable Refuse Environmentally

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PURE ONE AQUACULTURE PRODUCTS

We Provide a Solution for poor water Quality in Aquaculture ponds.

Producing both quality and quantity in a pond may not always be easy. As the grow-out cycle continues water conditions at times becomes intolerable as ammonia and sludge levels rise and oxygen levels fall. This can even lead to outbreaks of disease, which can wipe out your entire crop! In your pond there are countless populations of bacteria at work trying to maintain a natural balance between sludge digestion nitrogen cycling and oxygen consumption. The natural metabolism of your crop and the bacterial in your ponds both require adequate dissolved oxygen (DO) to maintain health and manage sludge build up. Various levels of DO can be achieved through mechanical aeration, yet this is not enough to accomplish the maximum output potential of a pond.

As oxygen is depleted, anaerobic bacteria can multiply in a pond in such great numbers that they begin to exude a variety of toxic by-products such as carbon monoxide and dioxins into the water that in turn leads to stress or disease and finally death. The richest source of oxygen is... H₂O-THE WATER!!! A solution for naturally oxygenating ponds and providing energy for beneficial aerobic bacterial is here! Pure One introduces the most advanced product combination to the aquaculture industry in over 55 years....

O²mega Pure

O²mega Pure contains enzymes that have the unique ability to split the water (H₂O) molecule releasing essential oxygen, right from the water! This action complements paddle wheel or mechanical aeration systems to ensure adequate oxygen levels for growing healthier fish, shrimp, prawns and maintaining an active aerobic bacterial system that will digest unwanted sludge and more efficiently reduce ammonia and nitrates.

OXY PURE

Oxy Pure works with **O²mega Pure**, providing oxygen to complex organisms that is greatly needed by aerobic bacteria. Oxy Pure provides the energy required by bacteria to break down and digest sludge elements such as protein, fecal coliform and fesces. Stimulating this mode of action results in more fully converting these unwanted compounds into harmless elements

NUTRO PURE

Nutro Pure provides specific nutrient complexes that are highly required and beneficial to the health and development of the embryos which is the most important and sensitive stage of

development in order to achieve a survival rate that exceeds 90%. **Nutro Pure** was formerly combined with **Oxy Pure** but it was determined that the most effective application was to separate the two products and apply them separately which has generated much better results. The nutrient requirements are higher during the first half of the growing cycle and the oxygen requirement increases during the last half of the growing cycle as a result of the increase in size of the shrimp, prawn and fish which is provided by **Oxy Pure** and **O2Mega Pure**.

A closed system maximizes water use. Flow through systems are costly to operate and often have negative effects on nearby streams or rivers as effluence may contain high levels of suspended solids and nutrients. By complementing your aeration system with **O²mega Pure**, **Nutro Pure** and **Oxy Pure**, you give your pond bacteria the elements they require to keep up with sludge production. This means that water may be reused to start a second crop and reduce the impact on the environment. Either **O²mega Pure**, **Nutro Pure** or **Oxy Pure** contains NO viable living bacteria. They are perfectly safe to the environment, humans and animals.

THE PURE ONE AQUACULTURE PRODUCTS QUICKLY RESTORES POOR WATER QUALITY PONDS WITH WATER QUALITY THAT WILL PRODUCE AMAZING RESULTS.

Providing products that will restore and maintain the natural process for balance in the treating of lakes ponds, waterways and aquaculture farms is the goal of Pure One Environmental, Inc. Excellent water quality begins with healthy, viable water ecology. The researchers at Pure One realize this and focus its product formulations on supporting these natural bio-systems in the aquatic environment. These tiny, yet dynamic living systems cause a dramatic reduction in toxic levels of contaminants that plague the world's aquatic systems. Yet, environmental pollution tends to enter our waterways, lakes and ponds at an alarming rate that often exceeds the ability of nature to manage. These living systems therefore require assistance by introducing probiotic elements to enhance bacterial activity and to buffer toxic elements that reduce resistance to microbial attack.

Treatment of these waters will involve the application of all 3 of our aquaculture treatment products which make up a synergistic combination of oxygen-releasing proteins organic acids, enzymes, bio-stimulants and probiotic substrates to ensure the rapid growth of indigenous microbes to digest or disassemble a wide variety of water contaminants, These contaminants may range from organic sludges, fertilizer run-off, petroleum oils or fuel, herbicides and insecticides. Even waterways that have been severely impacted by industrial chemicals and wastes can be restored to their natural and pristine state through the addition of Pure One Products.

HOW DOES THE PURE ONE AQUACULTURE PRODUCTS WORK?

Pure One aquaculture products work alone or in concert with each other to stimulate the natural biological processes that produce a healthy ecology and ultimately, clear, clean water.

O²mega Pure provides a rich supply of dehydrogenase enzymes that actively cleave or split the water molecule releasing both elemental hydrogen and oxygen. These are vital to a healthy aquatic environment as hydrogen buffers alkaline conditions that limit the digestion of chemical and organic matters. Oxygen is required to maintain the growth and proliferation of disease inhibiting factors and when present in its free form. Prohibits the growth of harmful anaerobic bacteria while supporting beneficial aerobic bacteria.

Nutro Pure provides biologically secured nutrients that act as a substrate for vigorous aerobic microbial activity. The bio-nutrients contained in Oxy Pure are held in a form that is highly favored by digestive bacteria.

Oxy Pure provides the stimulation for the release of more oxygen which is needed as the product grows in size. There is more feed decaying on the bottom of the pond during the last half of the growing cycle, the shrimp/prawn are larger and require more oxygen during the last half of the growing cycle.

WHY SELECT PURE ONE PRODUCTS?

When compared to chemical treatments that offer only short-term solutions and generally add to the environmental problems in the long term. Pure One is the better choice for a number of reasons.

1. Completely non-toxic to plants, animals aquatic life and people.
2. No harmful chemical residues.
3. Long-term natural benefits.
4. Completely biodegradable.
5. Easy application
6. Increases productivity
7. Minimal labor required
8. Provides the best results available
9. No added chemicals or antibiotics required or recommended.

PURE ONE PRODUCTS WORK SYNERGISTICALLY TO PRODUCE THE FOLLOWING:

1. Sorption, oxygenation and detoxification of Heavy metals.
2. Restoration of the natural water management systems.
3. Increased buffering capabilities.
4. Reduced sludge volumes.
5. Increased dissolved oxygen levels.
6. Reduced odors.
7. Increased population of beneficial bacteria.
8. Cleaner and clearer water

HOW DOES PURE ONE AQUACULTURE PRODUCTS CLARIFY WATER?

Our product enhances the digestion of floating organic matters and promotes the flocculation and precipitation of suspended solids.

WILL PURE ONE AQUACULTURE PRODUCTS REDUCE SLUDGE?

Yes, Pure One aquaculture products provides nutrient stimulation for the digestion of organic matters that tend to build up on the bottom of lakes and ponds and add to disease and anaerobic conditions.

DOES PURE ONE AQUACULTURE PRODUCTS CONTROL ODOR?

Yes, Pure One aquaculture products provides enzymes that when applied, go right to work converting anaerobic conditions to an aerobic system. This altered metabolic pathway cancels out most undesirable odors and takes effect usually within 2-5 days or sooner.

DO PURE ONE AQUACULTURE PRODUCTS HAVE AN EFFECT ON THE GROWTH OF ALGAE?

Excessive algae growth results from the availability of food its sources such as nitrogen and phosphorus. Pure One products promote the rapid growth of beneficial bacteria that consume the natural food sources that would otherwise support un-wanted algae and anaerobic bacteria. Pure One products create an aerobic aquatic environment, which supports an active system in temperatures ranging from 45deg. –110deg F. The growth of these bio-systems results in detoxifying and clarifying water.

DOES PURE ONE AQUACULTURE PRODUCTS REQUIRE EPA REGISTRATION?

No, because Pure One is not a algaecide, nor does it make any algaecidal claims. Pure One aquaculture products or environmentally safe, non toxic and safe to humans and animals and aquatic life. The aquaculture products have been tested for toxicity and are proven safe when applied at over 200 times the recommended rate. There are not special precautions that are required during handling.

WHAT RESULTS CAN I EXPECT?

- Odors reduced or eliminated within 2-5 days.
- Improved water clarity within 14-21 days.
- Enhanced digestion of sludge.
- Increase production of shrimp and prawns.
- Increase weight of shrimp and prawns.
- Decreases in the growth cycle by 2 weeks are more.
- 20 to 25% increase in weight of the shrimp and prawns.

- Greater than 90% embryo survival rate.

POND TREATMENT PROGRAM

The ideal time to begin a Pure One pond management program is 7 - 10 days prior to inoculation of hatchlings. However, if the program is started after inoculation of hatchlings, begin with 1st application and follow the simple program below. In-situ tests have shown the following program to be most effective.

Application Instructions

Add 2 ppm of **O²mega Pure** to a 200 liter drum of native water and apply once per week on the same day for the complete grow out cycle. (Usually 16 to 18 weeks)

Add 1.5 ppm of **Nutro Pure** to a 200 liter drum of native water and apply once per week on the same day for the first half of the growing cycle. (Usually 8 to 9 weeks)

Add 1 ppm of **Oxy Pure** to a 200 liter drum of native water and apply it once per week on the same day for the last half of the growing cycle. (Usually 8 to 9 weeks)

Because the **O²mega PureTM** and **Nutro Pure** as a combination stimulates enzymatic release of oxygen, the improved aquatic atmosphere will support a more diverse population of rotifers, and phytoplankton, which are a naturally preferred food for both fish and shrimp. Therefore it may be necessary to reduce processed feed additives by 15-25% as these un-eaten proteins contribute to sludge build-up. Oxy Pure provides the increased oxygen necessary to support a developing pond of growing shrimp or prawns.

THE OXYGEN SOLUTION

PURE ONE provides the most advanced product combination to the aquaculture industry in over 50 years. A solution for naturally oxygenating ponds and providing energy for beneficial aerobic bacterial is what the product system provides. These products contain NO viable bacteria.

Producing both quality and quantity in a pond is not always easy. As the grow-out cycle continues, water conditions at times, become intolerable as ammonia and sludge levels rise and oxygen levels fall. This can even lead to outbreaks of disease, which can wipe out your entire crop and this condition most certainly is responsible for low output of crops of shrimp and prawn. In your pond there are countless populations of bacteria at work trying to maintain a natural balance between sludge digestion, nitrogen cycling and oxygen consumption. The natural metabolism of the crop and the bacteria in the ponds both require adequate dissolved oxygen (DO) to maintain health and manage sludge build up. Various levels of DO can be achieved through mechanical aeration, yet this will not be enough by itself and it is costly and must be maintained.

As oxygen is depleted, anaerobic bacteria can multiply in a pond in such great numbers that they begin to exude a variety of toxic by-products such as carbon monoxide and dioxins into the water that, in turn, leads to stress or disease and finally death. The richest source of oxygen is water. For years shrimp and prawn farmers have utilized both chemical and mechanical means to incorporate oxygen into the water. We at Pure One have successfully created a system that in effect, harvests the available oxygen in water making it more accessible and useable for the needed functions required in a pond by the living organisms and the bio-degrading processes.

O₂MEGA PURE contains enzymes that have the unique ability to split the water (H₂O) molecule releasing essential oxygen right from the water. This action complements paddle wheel and/or mechanical aeration systems to ensure adequate oxygen levels for growing healthier fish and shrimp and maintaining an active aerobic bacterial system that will digest unwanted sludge and more efficiently reduce ammonia and nitrates. This is also the method of choice when there are no mechanical paddle wheels or mechanical aeration systems available or used to aid in the generation of oxygen.

NUTRO PURE works with O₂Mega Pure, providing specific nutrient complexes that are highly required by beneficial aerobic bacteria greatly needed during the first half of the growing cycle when the survival ability of the embryos is most critical. NUTRO PURE provides the energy required by bacteria to break down and digest sludge elements such as protein, fecal coliform and fescues. Stimulating this mode of action results in more fully converting these unwanted compounds into harmless elements.

OXY PURE works with O₂Mega Pure and when added in the second half of the cycle, creates more oxygen than is being consumed. This is the reason that the DO levels increase over the course of the growing cycle. Pure One OXY Pure will improve the bio-oxidation and liquidation of effluent resulting from the growing shrimp or prawn population feed build up on the bottom of the pond. Pure One OXY Pure is a synergistic blend of organically complex enzymes that are essential in maintaining optimum biological growth.

Historical pond sizes and the level of technical infrastructure.

Extensive shrimp farms using traditional low-density methods are invariably located on a coast and often in mangrove areas. The ponds range from just a few to more than 100 hectares; shrimps are stocked at low densities (2-3 animals per square metre, or 25,000/ha). The tides provide for some water exchange, and the shrimps feed on naturally occurring organisms. In some areas, farmers even grow wild shrimps by just opening the gates and impounding wild larvae. Prevalent in poorer or less developed countries where land prices are low, extensive farms produce annual yields from 50 to 500 kg/ha of shrimp (head-on weight). They have low production costs (US\$1–3/kg live shrimp), are not very labor intensive, and do not require advanced technical skills.

Semi-intensive farms do not rely on tides for water exchange but use pumps and a planned pond layout. They can therefore be built above the high tide line. Pond sizes range from 2 to 30 ha; the stocking densities range from 10 to 30/m² (100,000–300,000/ha). At such densities, artificial feeding using industrially prepared shrimp feeds and fertilizing the pond to stimulate the growth of naturally occurring organisms become a necessity. Annual yields range from 500 to 5,000 kg/ha, while production costs are in the range of US\$2–6/kg live shrimp.

Intensive farms use even smaller ponds (0.1–1.5 ha) and even higher stocking densities. The ponds are actively managed: they are aerated, there is a high water exchange to remove waste products and maintain water quality, and the shrimps are fed on specially designed diets, typically in the form of formulated pellets. Such farms produce annual yields between 5,000 and 20,000 kg/ha; a few super-intensive farms can produce as much as 100,000 kg/ha. They require an advanced technical infrastructure and highly trained professionals for constant monitoring of water quality and other pond conditions; their production costs are in the range of US\$4–8/kg live shrimp.

Estimates on the production characteristics of shrimp farms vary. Most studies agree that about 55–60% of all shrimp farms worldwide are extensive farms, another 25–30% are semi-intensive, the rest being intensive farms. Regional variation is high, though, and [Tacon 2002] reports wide discrepancies in the percentages claimed for individual countries by different studies.

RECOMMENDED TEST BRIEF FOR PURE ONE AQUACULTURE TESTING PROTOCOL FOR SHRIMP AND PRAWN FARMING.

Select a person that is going to be responsible for this project. As far as we are concerned, everything rides on the results of this test phase. This person should take the responsibility to manage the process to a very high level of efficiency. In our experience, people in the Shrimp and Prawn farming business have a difficult time doing things differently until they are shown that the new way is better.

This person's responsibility is going to be to:

1. Collect data on the Ponds, amount of water, accurate count of embryos, date operation starts.
2. Administer and monitor the water levels of the pond.
3. Select, administer and put in the embryos as directed.
4. Report all conditions on a timely basis. (Immediately.)
5. Manage the testing of the water weekly.
6. Manage the replacing of the water loss from evaporation each week.
7. Manage the application of the product each week.
8. Manage the security of the product and make sure that it is properly handled and stored.
9. Report any changes to the water or product immediately.
10. He should not allow any chemicals be used without our o.k.
11. Collect the water test each week and forward the results to me as soon as possible.
12. Weigh the product each week and record it.
13. Make visual observation and report it.

It is recommended that at least 10 ponds be selected for the testing of the product system. The ponds should be at least four million liters in size. It is o.k. to have some larger and some smaller, but the total amount of water should be 40 million liters or 10.5 million gallons. Identify them by number or otherwise for reference for the growing cycle.

Select the same number of untreated pond as a comparison of comparative sizes. Number them or other wise identify them for the growing cycle.

It is recommended that three species of product be selected. Tiger prawns for 3 ponds, Vannamei for 3 ponds and a species of their choice for 3 ponds. The last pond should be used to establish the density limits of the pond taking into consideration the quality and type of water and local factors. With this pond we can over pack the density and determine the limits and this will also show how much more profitable our system can make your present capacity operate.

The controls that are required are:

1. Select a healthy supply of embryos from a good supplier. Check the supply before they are introduced in to the pond.
2. Select a testing lab that is capable of testing the water each week for all of the parameters that are listed on the test sheet that is provided. Start the process by collecting the adequate amount of water in the proper container and either has them do it or deliver it to the lab. The first test should be conducted as soon as the water is filled to the maxim level in the pond and before the product is applied.
3. Select the ponds and fill them to the level that is going to be the operating level of the pond. Some farmers use the practice of putting in a small amount first with the embryos and adding more water each week. This is not the practice that we use or recommend. One of the key elements to our system is to keep the embryos alive. The death rate of embryos occurs early on in the cycle. We require that the pond is filled to the maximum operating level and immediately apply the first application of O₂ Mega Pure and Nutro Pure. This should be done at least 7 days prior to introducing the embryos or up to 10 days if time permits. The normal evaporation level of water is between 3 and 5% per week. This amount of water should be replaced each week.
4. Select the day to release the embryos on the day of the week that the entire operation is going to occur for the complete growing cycle. It is important to do all of the operations on the same day in the same order. This way the test results are collected on a consistent basis. We recommend that this is done on either Friday, Saturday or Sunday.
5. Water test should be conducted in comparable untreated ponds with comparable types of shrimps and Prawns for the same growing cycle to compare the quality of the water and the comparative results at the end of the growing cycle, when the harvest occurs.

The product should be applied as follows:

O2Mega Pure 2 ppm (parts per million) - Entire growing cycle, 8 to 9 weeks.
Nutro Pure 1.5 ppm - For the first half of the growing cycle, 8 weeks max.
Oxy Pure 1 ppm - For the second half of the growing cycle, 8 to 9 weeks.

After the water is filled, the test sample is collected; the product in applied one week or so in advance, the lost water added, the embryos should be introduced.

If the farmer is using mechanical assistance the inject air or create movement in the water in order to achieve the results that he is presently getting, he may want to continue this practice. Some farmers that operate a high quality operation employ these aids in order to achieve the quality that they are achieving. Employing these aids will only enhance the effectiveness of the Pure One Aquaculture system. Our system proved its effectiveness on farms that used very bad water and does not have aeration assistance.

The amount of product required for this test run:

| | | | |
|-----------------|-------------------|-----------|-------------------|
| O2 Mega Pure | 1440 liters | or | 380 gallons |
| Nutro Pure | 540 liters | or | 143 gallons |
| <u>Oxy Pure</u> | <u>360 liters</u> | <u>or</u> | <u>95 gallons</u> |
| Total | 2340 liters | or | 618 gallons |

This is the typical quantity of product required to effectively test the product system following the protocol that we recommend. It is imperative that the instructions that we provide be followed to the letter and close communications be maintained to address any changes or issues that may occur.

As you will experience, our product system does not cost the farmer any money. The product cost is paid out of the increase in productivity and or the increase in the weight of the harvest. If our system does not increase the productivity over the present production, is it not worth buying it. This is why it is important to get the present performance levels of production.

We also are aware that when the production levels have pushed the envelope, there has been a problem with the occurrences of disease such as white spot. This is not uncommon and in our opinion is in part due to the decrease in quality of the water and increase in the density of the product in the pond.

Farmers will initially say that the product is too expensive and will continue to say this until the harvest is completed. We have provided a work table spread sheet that the results of the untreated ponds production can be inserted and the calculation will appear in the untreated area. The treated values and results are then put in the treated section of the work sheet and the results clearly will show the economics of the Pure One Aquaculture system. The results will tell the tale. It only takes a test protocol as presented in this document.

Send the test results to us and copy whoever is selected and we will plug the values into our chart and monitor them each week. The test values and observations should be communicated directly to me at jwlj@earthlink.net if required, I can be reached at: phone 949 586 7610 or cell 949 689 7049.

Submitted,

Jim Jordan
President

O²mega Pure

Oxygen Release Enzyme-ORE™

Description:

The biological imbalance in soil, lakes, ponds, and wastewater systems is often induced by a lack of oxygen and the growth of unwanted anaerobic bacteria. These odor-causing conditions exist due to a lack of sufficient dissolved oxygen to support **aerobic** microbes.

Just as beneficial **aerobic** microbes will not thrive in an environment unsuited to their growth, harmful anaerobic microbes will not thrive in an oxygen rich environment. The solution is to modify the bio-environment by inducing the continuous release of oxygen.

Applying O²MEGA PURE™ on a regular basis promotes the release of oxygen that supports beneficial aerobic bacteria that breakdown sludge in lakes, ponds and wastewater systems.

Benefits of use:

- Eliminates or reduces offensive odors.
- Encourages the growth and proliferation of essential aerobic bacteria as well as a more active enzymatic system.
- Accelerates the digestion of organic matter and sludge.
- Raises dissolved oxygen levels.
- Reduces turbidity or suspended solids.
- Precipitates dissolved minerals, reducing weed and algae growth.
- Beneficial to fish and other aquatic life forms.
- Enzymatically buffers pH.
- Toxicology - SAFE and non-toxic.
- Increase embryo survival rate to over 90%

Chemical characteristics:

Contains a probiotic solution of H₂O Dehydrogenase enzymes.

Physical characteristics:

8.7 lbs. per gallon, pH 7.4

Application instructions:

Lakes and Ponds- Apply 5-10 parts per million (ppm) once every 2-4 weeks until desired conditions are attained, then maintain at 2.5 ppm every 4 weeks. Ideal method of application is to dilute product in a sprayer filled with pond water and evenly spray this solution over

the top of the water. Product can be applied through water fall, fountain, aerator or manual sprayer.

Waste water and Sludge treatment- Spray or inject at a rate of 3-10 parts per million once every 2-4 weeks. (O²mega Pure may be diluted to ensure even distribution) or inject continuously at a rate of 0.5 - 1.5 PPM. O²mega Pure should be applied early in the process system, usually at the lift station or downstream from any chemical treatments of wastewater or sludge.

Consult your Pure One Environmental, Inc Product dealer for additional information and HC remediation technology.

Shrimp, Prawn and Fishery Farming: Spray or inject at a rate of 2 ppm once per week for full term of growing cycle. Product recommended to be used with Pure One Oxy Pure. O²mega Pure contains enzymes that have the unique ability to split the water (H₂O) molecule releasing essential oxygen, right from the water! This action complements paddle wheel or mechanical aeration systems to ensure adequate oxygen levels for growing healthier fish, shrimp, prawns and maintaining an active aerobic bacterial system that will digest unwanted sludge and more efficiently reduce ammonia and nitrates.

Availability:

Available in 5-gallon containers, 55-gallon drums, or 275-gallon bulk containers.

Storage and Disposal:

Keep product in original container. Do not transfer into food or drink containers. Triple rinse and empty for recycling. Always dispose of container in accordance with local, state and/or federal regulations.

Caution:

Keep out of reach of children. May be harmful if swallowed.

Condition of Sale:

The information herein is believed to be accurate and reliable. Buyer and user assume all liability from use of this material. Follow directions carefully. Timing, method of application, weather and other factors are beyond the control of the seller.

MSDS available upon request.

Pure One Environmental, Inc.... for a healthier environment.

MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200 Standard must be consulted for specific requirements

O₂ MEGA PURE

PURE ONE ENVIRONMENTAL, INC.

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Mailing address: 22754 Islamare
Lake Forest, CA 92630
949 586 7610 Int'l Office Fax: 949-586-2409

| | |
|---|---|
| SECTION I: PRODUCT INFORMATION | |
| <ul style="list-style-type: none"> • Trade Name: • Chemical Name: • Formula: • D.O.T. Proper Shipping Name: • D.O.T. Hazardous Class: • D.O.T. Identification Number: | <p>O₂ MEGA PURE Seaweed & other algae All natural proprietary blend of organic substances</p> <p>O₂ MEGA PURE Non-Hazardous Liquid Non-Hazardous Liquid Class 70 Sch. B Harmonizing Code 3507.90.0000</p> |
| SECTION II: PHYSICAL DATA | |
| <ul style="list-style-type: none"> • Specific Gravity: • Boiling Point: • Melting Point: • Vapor Pressure: • Vapor Density: • Evaporation Rate: • Solubility in Water: • Appearance & Odor: | <p>1.05 (H₂O=1) 212° F N/A Same as water Same as water Same as water 100% Light brown in color; sweet smell; odor not hazardous</p> |
| SECTION III: HAZARDOUS INGREDIENTS | |
| SECTION IV: FIRE & EXPLOSION | |
| | <ul style="list-style-type: none"> • There is no flash point. • It is a non-flammable substance • LEL and UEL are non-applicable • There are no special fire fighting procedures |
| SECTION V: REACTIVITY DATA | |
| <ul style="list-style-type: none"> • Stability: • Conditions to avoid: • Incompatibility (Materials to avoid): • Hazardous Decomposition or byproduct: • Hazardous Polymerization: • Conditions to avoid: | <p>Stable None None None Will not occur None</p> |
| SECTION VI: HEALTH HAZARD DATA | |

| | |
|--|--|
| <ul style="list-style-type: none"> • Inhalation: • Skin Contact: • Ingestion: • Carcinogenicity: • Signs & Symptoms of Exposure: • Medical Conditions Aggravated by Exposure: • Emergency & First Aid Procedures: | <p>Non-toxic Non-irritation Non-toxic None N/A None None</p> |
|--|--|

O₂ MEGA PURE MATERIAL SAFETY DATA SHEET
PAGE 2

| | |
|---|--|
| SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE | |
| <ul style="list-style-type: none"> • Steps to be taken in case material is released or spilled • Waste Disposal Method: • Other Precautions: | <p>No special precautions required</p> <p>No special steps required</p> <p>None</p> |
| SECTION VIII: CONTROL MEASURES | |
| <ul style="list-style-type: none"> • Respiratory Protection: • Mechanical (General): • Other protective clothing or equipment: | <p>None; No special venting needed</p> <p>No special needs</p> <p>No special needs</p> |

Prepared: 04-17-1997

Revised: 02-22-2006

We believe that the information contained in this MSDS is current. Since the use of this information and the conditions of the use of the product are not within the control of PURE ONE ENVIRONMENTAL INC., it is the user's obligation to determine the conditions of safe use of this product. The information herein is given in good faith, but no warranty, expressed or implied is made.

PURE ONE NUTRO PURE Biotic Nutrient

Description:

One component of maintaining any biological system is providing the nutrients required by the microorganisms. Pure One **NUTRO PURE** is a synergistic blend of organically complexed nutrients that are essential in maintaining optimum biological growth.

The molecular composition of bacterial cells is fairly constant and indicates the requirements for growth. Water and carbon constitute 90% of cellular weight, and are always major nutrients; the organic waste that we wish to destroy can provide these elements. Addition of Pure One **NUTRO PURE** supplies the complex elements needed to enhance and complete the digestion cycle.

When added in the secondary or biological treatment phase of a wastewater treatment plant, Pure One **NUTRO PURE** will improve the bio-oxidation and liquidation of treated effluent, maintain plant stability, and reduce plant-operating costs.

Benefits of use:

- Improves degradation activity including enhanced general or specific organic removal efficiencies.
- Process stabilization, including shock-load resistance.
- Reduction in COD and BOD levels.
- Increases dissolved oxygen levels.
- Reduction in odors and sludge volume.
- Buffers pH.
- Activates indigenous aerobic and facultative
- Microorganisms.
- 90% increase of embryos survival rate

Application instructions:

Pure One **NUTRO PURE** is highly concentrated and is ready to use.

Wastewater and Sludge Treatment: apply 3 parts per million (3 ppm) continuously by chemical feed pump or manually 2-3 times per day.

Pure One **NUTRO PURE** performs best within a pH range of 6.0-9.0 with optimum near 7.0. Temperature affects microbial activity, with an approximate doubling in growth rate for each 10°C (18°F) temperature increase to an upper limit of approximately 40°C (104°F). Very low activity can be expected below 5°C (41°F).

Shrimp, Prawn and Fishery Farming: Spray or inject at a rate of 1.5 ppm once per week for the first half of the growing cycle. **NUTRO PURE** works with **O²mega Pure**, providing specific nutrient complexes that are highly required by beneficial aerobic bacteria. **NUTRO PURE** provides the energy required by bacteria to break down and digest sludge elements such as protein, fecal coli form and fesces. Stimulating this mode of action results in more fully converting these unwanted compounds into harmless elements

Consult your Pure One representative for addition treatment programs.

Physical characteristics:

10.1 lbs./gal. PH 7.7

Availability:

Available in 5 gallon jugs, 5 gallon containers, 55 gallon drums, or in 275 gallon bulk containers.

Storage and disposal:

Keep product in original container. Do not transfer into food or drink containers. Triple rinse and empty for recycling. Always dispose of container in accordance with local, state, and/or federal regulations.

MSDS available upon request.

MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200 Standard must be consulted for specific requirements

NUTRO PURE

PURE ONE ENVIRONMENTAL, INC.

3400 W. Warner Ave. Unit A
Santa Ana, CA 92704
714-641-1430 Fax – 714-641-1432 info@pureone.com

Mailing address: 22754 Islamare
Lake Forest, CA 92630
949 586 7610 Int'l Office Fax 949-586-2409

| SECTION I: INFORMATION | PRODUCT |
|---|--|
| <ul style="list-style-type: none"> • Trade Name: • Chemical Name: • Formula: • D.O.T. Proper Shipping Name: • D.O.T. Hazardous Class: • D.O.T. Identification Number: | <p>NUTRO PURE ENZYMES All natural proprietary blend of enzymes Nutro Pure – Non Hazardous Liquid Non-Hazardous Liquid Class 70 Sch. B Harmonizing Code 2106.10.0000</p> |
| SECTION II: PHYSICAL DATA | |
| <ul style="list-style-type: none"> • Specific Gravity: • Boiling Point: • Vapor Pressure: • Melting Point: • Vapor Density: • Evaporation Rate: • Solubility in Water: • Appearance & Odor: | <p>1.05 (H₂O=1) 212° F Same as water N/A Same as water Same as water 100% Light brown in color; slight odor; odor not hazardous</p> |
| SECTION III: HAZARDOUS INGREDIENTS | |
| | None |
| SECTION IV: FIRE & EXPLOSION | |
| | <ul style="list-style-type: none"> • There is no flash point. • It is a non-flammable substance • LEL and UEL are non-applicable • There are no special fire fighting procedures |
| SECTION V: REACTIVITY DATA | |
| <ul style="list-style-type: none"> • Stability: • Incompatibility: • Hazardous Polymerization: • Hazardous Decomposition or Byproducts: | <p>Stable None Will not occur None</p> |
| SECTION VI: HEALTH HAZARD DATA | |
| <ul style="list-style-type: none"> • Inhalation: • Skin Contact: • Ingestion: • Carcinogenicity: • Signs and Symptoms of Exposure: • Conditions Aggravated by Exposure: | <p>Non-toxic Non-irritant Non-toxic None N/A None</p> |

| | |
|---|--|
| SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE | <ul style="list-style-type: none"> • No special precautions required if material is released or spilled. • No special steps or method required for waste disposal. |
| SECTION VIII: CONTROL MEASURES | |
| <ul style="list-style-type: none"> • Respiratory Protection: • Mechanical (General): • Protective Gloves, Clothing, & Equipment: | None; no special venting required No special requirements No special requirements |

Prepared: 04-17-1997

Revised: 02-13-2006

We believe that the information contained in this MSDS is current. Since the use of this information and the conditions of the use of the product are not within the control of PURE ONE ENVIRONMENTAL INC., it is the user's obligation to determine the conditions of safe use of this product. The information herein is given in good faith, but no warranty, expressed or implied is made.

PURE ONE OXY PURE

Description:

One component of maintaining any biological system is providing the oxygen required by the microorganisms. Pure One **OXY Pure** is a synergistic blend of organically complexed enzymes that are essential in maintaining optimum biological growth.

The molecular composition of bacterial cells is fairly constant and indicates the requirements for growth. Water and carbon constitute 90% of cellular weight, and are always major nutrients; the organic waste that we wish to destroy can provide these elements. Addition of Pure One **OXY Pure** supplies the complex elements needed to enhance and complete the digestion cycle.

When added in the secondary or biological treatment phase of water with waste present, Pure One **OXY Pure** will improve the bio-oxidation and liquidation of effluent resulting from the growing shrimp or prawn population feed build up on the bottom of the pond.

Benefits of use:

- Improves degradation activity including enhanced general or specific organic removal efficiencies.
- Process stabilization, including shock-load resistance.
- Reduction in COD and BOD levels.
- Increases dissolved oxygen levels.
- Reduction in odors and sludge volume.
- Buffers pH.
- Activates indigenous aerobic and facultative Microorganisms.
- 90 % or better embryo survival rate

Application instructions:

Pure One **OXY Pure** is highly concentrated and is ready to use.

Wastewater and Sludge Treatment: apply 3 parts per million (3 ppm) continuously by chemical feed pump or manually 2-3 times per day.

Pure One OXY Pure performs best within a pH range of 6.0-9.0 with optimum near 7.0. Temperature affects microbial activity, with an approximate doubling in growth rate for each 10°C (18°F) temperature increase to an upper limit of approximately 40°C (104°F). Very low activity can be expected below 5°C (41°F).

Shrimp, Prawn and Fishery Farming: Spray or inject at a rate of 1 ppm once per week for the last half of the cycle with **Oxy Pure**. It works with **O²mega Pure** and **Nutro Pure**, providing oxygen that is highly required by beneficial aerobic bacteria. **Oxy Pure** provides the energy required by bacteria to break down and digest sludge elements such as protein, fecal coli form and fesces. Stimulating this mode of action results in more fully converting these unwanted compounds into harmless elements

Consult your Pure One representative for additional treatment programs.

Physical characteristics:

10.1 lbs./gal. PH 7.7

Availability:

Available in 5 gallon jugs, 5 gallon containers and 55 gallon drums..

Storage and disposal:

Keep product in original container. Do not transfer into food or drink containers. Triple rinse and empty for recycling. Always dispose of container in accordance with local, state, and/or federal regulations.

MSDS available upon request.

MATERIAL SAFETY DATA SHEET

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OXY PURE

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949 586 7610 Int'l Office Fax: 949 586 2409

| SECTION I: PRODUCT INFORMATION | |
|--|--|
| <ul style="list-style-type: none">• Trade Name:• Chemical Name:• Formula:• D.O.T. Proper Shipping Name:• D.O.T. Hazardous Class:• D.O.T. Identification Number: | OXY PURE Seaweed and other algae All natural proprietary blend of organic substances OXY PURE OXY PURE – Non Hazardous Liquid Class 70 Sch. B Harmonizing Code 3507.90.7000 |
| SECTION II: PHYSICAL DATA | |
| <ul style="list-style-type: none">• Specific Gravity:• Boiling Point:• Melting Point:• Vapor Pressure:• Vapor Density• Evaporation Rate:• Solubility in Water:• Appearance & Odor: | 1.05 (H ₂ O = 1) 212° F N/A Same as water Same as water Same as water 100% Light brown in color; sweet smell; odor not hazardous |
| SECTION III: HAZARDOUS INGREDIENTS | |
| None | |
| SECTION IV: FIRE & EXPLOSION | |
| <ul style="list-style-type: none">• There is no flash point.• It is a non-flammable substance• LEL and UEL are non-applicable• There are no special fire fighting procedures | |
| SECTION V: REACTIVITY DATA | |
| <ul style="list-style-type: none">• Stability:• Conditions to avoid:• Incompatibility:• Hazardous Decomposition or Byproducts:• Hazardous Polymerization: | Stable None None None Will not occur |
| SECTION VI: HEALTH HAZARD DATA | |
| <ul style="list-style-type: none">• Inhalation:• Skin Contact:• Ingestion:• Carcinogenicity:• Signs & Symptoms of Exposure:• Medical Conditions Aggravated by Exposure:• Emergency & First Aid Procedures: | Non-toxic Non-irritation Non-toxic None N/A None None |

OXY PURE MATERIAL SAFETY DATA SHEET
PAGE 2

| | |
|---|--|
| SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE | |
| <ul style="list-style-type: none">• Steps to be taken in case material is released or spilled• Waste Disposal Method:• Other Precautions: | No special precautions required No special steps required None |
| SECTION VIII: CONTROL MEASURES | |
| <ul style="list-style-type: none">• Respiratory Protection:• Mechanical (General):• Other protective clothing or equipment: | None; No special venting needed No special needs No special needs |

Prepared: 04-17-1997

Revised: 02-25-2006

We believe that the information contained in this MSDS is current. Since the use of this information and the conditions of the use of the product are not within the control of PURE ONE ENVIRONMENTAL INC., it is the user's obligation to determine the conditions of safe use of this product. The information herein is given in good faith, but no warranty, expressed or implied is made.

SAMPLE OF SHRIMP PONDS IN ECUADOR



Plastic lined shrimp pond



Plastic lined shrimp pond being drained



Two ponds lined with plastic.



Natural Shrimp Ponds



Large Natural Shrimp Pond



Natural Shrimp Pond cluster

Thailand shrimp ponds treated with Pure One Aquaculture Products











