

## our people

DIVERSITY FROM THE EXPERIENCES AND BACKGROUNDS OF OUR SCIENTISTS HELPS US TO BE MORE CREATIVE AND INNOVATIVE. FROM THE EXPERIENCES AND BACKGROUNDS OF OUR SCIENTISTS HELPS US TO BE MORE CREATIVE AND INNOVATIVE. FROM THE EXPERIENCES AND BACKGROUNDS OF OUR SCIENTISTS HELPS US TO BE MORE CREATIVE AND INNOVATIVE.

More than 45 years in business has taught us what works for our customers. Our collaborative approach to finding solutions for our customers' waste management problems begins with our people. Our experienced, carefully selected team consists of research scientists with expertise in microbiology, biochemistry, organic chemistry, formulation chemistry and biochemical engineering. We also have a dedicated and knowledgeable sales team that works with our customers to help identify and respond to their varying needs, and our customer service team is always responsive and available.

The strength of our entire team lies not only in the skill and knowledge of its members, but also in its proactive, positive approach. The culture of Microxyme Technologies encourages excellence, and our team rises to that challenge every day.



## Innovative Formulations Inc.

DEVELOPMENT AND DISCOVERY

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# Advanced Bio-Remediation

THROUGH INNOVATIVE SCIENCE AND TECHNOLOGY



## Our Research Philosophy

COMMITTED TO THE HIGHEST STANDARDS OF **ETHICS** AND **INTEGRITY** WHILE STAYING CREATIVE IN RESEARCH AND DISCOVERY.



## Bio-Remediation Technologies Grease Trap Applications

### MICROXYME GT BIO-BLOCK GREASE TRAP TREATMENT (PATENTED PRODUCT)

Is a solid blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes and designed to bio-remediate animal fats and vegetable oils as well as proteins, starches and cellulosic organics. The microbial cultures continue enzyme production until almost all grease and other organic wastes are consumed. MICROXYME GT Bio-Block is a unique combination of six selected facultative anaerobic microbial cultures, which are effective across a wide range of substrates and environmental conditions. MICROXYME GT Bio-Block microbes are strictly saprophytic, meaning they only digest non-living and decaying materials. Use of MICROXYME GT Bio-Block in conjunction with water flow, mechanical aeration or agitation reduces B.O.D., C.O.D. and the malodors that result from anaerobic microbial activity.

### MICROXYME GT BIO-TABS GREASE TRAP TREATMENT (PATENTED PRODUCT)

Is a solid product blend consisting of naturally occurring; scientifically selected (but not genetically manipulated) microbes formulated to bio-remediate almost all fractions of animals' fats and vegetable oils. The microbial cultures continue enzyme production until almost all grease and other organic wastes are consumed. MICROXYME GT Tabs are a blend of six facultative anaerobic microbial cultures making this product effective across a wide range of substrates and environmental conditions. The microbes in MICROXYME GT Tabs are strictly saprophytic and digest only non-living and dead materials. Use of MICROXYME GT Tabs in conjunction with water flow, mechanical aeration or agitation reduces B.O.D., C.O.D. and the malodors that result from anaerobic microbial activity.

### MICROXYME GT GRANULAR GREASE TRAP TREATMENT

Is a granular blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes and designed to bio-remediate animal fats and vegetable oils as well as proteins, starches and cellulosic organics. The microbial cultures continue enzyme production until almost all grease and other organic wastes are consumed. MICROXYME GT Granular is a unique combination of six selected facultative anaerobic microbial cultures, which are effective across a wide range of substrates and environmental conditions. MICROXYME GT Granular microbes are strictly saprophytic, meaning they only digest non-living and decaying materials.

### MICROXYME GT LIQUID GREASE TRAP TREATMENT

Is a granular blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes and designed to bio-remediate animal fats and vegetable oils as well as proteins, starches and cellulosic organics. The microbial cultures continue enzyme production until almost all grease and other organic wastes are consumed. MICROXYME GT Liquid is a unique combination of six selected facultative anaerobic microbial cultures, which are effective across a wide range of substrates and environmental conditions. MICROXYME GT Liquid microbes are strictly saprophytic, meaning they only digest non-living and decaying materials.



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## Bio-Remediation Technologies Drain Line, Portable Toilets, Recreational Vehicles, Boats, etc.

### MICROXYME DL LIQUID DRAIN MAINTENANCE BACTERIA BLEND

A blend of concentrated Facultative blend of naturally occurring bacteria and enzymes that is superior to commercially available drain opening products. Easily removes clogs like Hair, Animal Fat, Grease, Starches, Vegetable Oils, Organic Waste, etc. 100% biodegradable. It does not contain any petroleum based solvents or other harsh chemicals Eliminates drain odors Safe to use as a Plastic Drain Eliminates Drain Flash backs Specialized microbes provide rapid digestion of organic Eliminates harborages by degrades organic matter that provide the egg-laying and larval development for drain flies, sewer flies, filter flies, vinegar flies, humpback flies, fruit flies, and common household flies.

### MICROXYME XL LIQUID BIOLOGICAL TREATMENT FOR PHOTO AND X-RAY DRAIN APPLICATIONS

A blend of concentrated Facultative naturally occurring bacteria and enzymes. That is specifically formulated for use commercially X-ray drains. 100% biodegradable. It does not contain any petroleum based solvents or other harsh chemicals that are harmful around expensive X-ray equipment. Contains Facultative Microbes Specifically formulated to reduce Black Slime, Fixer Build up and other organic clogs in X-Ray drains. Formulated in conjunction with EPA's standards for specialized microbes provide rapid digestion of organic waste. Eliminates odors and black slime build up caused by fixers and other developing chemicals.

### MICROXYME ROYAL TREATMENT TOSS BAGS BACTERIA FOR TREATMENT OF PORTABLE TOILETS

Is a Powdered dissolvable bag blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes formulated to accelerate decomposition and digestion of biomass (sludge) and to consume excess nutrients including nitrates and phosphates in RV's, Porte-potties, ship bilges, aquatic craft bilges and holding tanks. MICROXYME Royal Treatment toss bags is a blend of six facultative anaerobic microbial cultures making this product effective across a wide range of substrates and environmental conditions. The microbes in MICROXYME Royal Treatment are strictly saprophytic and digest only non-living and dead materials. Use of MICROXYME Royal Treatment in conjunction with mechanical aeration and agitation reduces B.O.D., C.O.D. and the malodors that result from anaerobic microbial activity. By performing a more efficient, less odorous waste reduction process, MICROXYME Royal Treatment substantially reduces the need for mechanical dredging and treatment with toxic chemicals.

### MICROXYME ROYAL TREATMENT LIQUID BIOLOGICAL TREATMENT FOR PORTABLE TOILETS

Is a liquid blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes formulated to accelerate decomposition and digestion of biomass (sludge) and to consume excess nutrients including nitrates and phosphates in RV's, Porte-potties, ship bilges, aquatic craft bilges and holding tanks. MICROXYME Royal Treatment Liquid is a blend of six facultative anaerobic microbial cultures making this product effective across a wide range of substrates and environmental conditions. The microbes in MICROXYME Royal Treatment Liquid are strictly saprophytic and digest only non-living and dead materials. Use of MICROXYME Royal Treatment Liquid in conjunction with mechanical aeration and agitation reduces B.O.D., C.O.D. and the malodors that result from anaerobic microbial activity. By performing a more efficient, less odorous waste reduction process, MICROXYME Royal Treatment Liquid substantially reduces the need for mechanical dredging and treatment with toxic chemicals.

### MICROXYME ROYAL TREATMENT POWDERED BIOLOGICAL TREATMENT FOR PORTABLE TOILETS

Is a Powdered blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes formulated to accelerate decomposition and digestion of biomass (sludge) and to consume excess nutrients including nitrates and phosphates in RV's, Porte-potties, ship bilges, aquatic craft bilges and holding tanks. MICROXYME Royal Treatment Powder is a blend of six facultative anaerobic microbial cultures making this product effective across a wide range of substrates and environmental conditions. The microbes in MICROXYME Royal Treatment are strictly saprophytic and digest only non-living and dead materials. Use of MICROXYME Royal Treatment in conjunction with mechanical aeration and agitation reduces B.O.D., C.O.D. and the malodors that result from anaerobic microbial activity. By performing a more efficient, less odorous waste reduction process, MICROXYME Royal Treatment substantially reduces the need for mechanical dredging and treatment with toxic chemicals.

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## Bio-Remediation Technologies Insect Abatement Control Products

### MICROXYME BTI LIQUID BACTERIA BLEND FOR MOSQUITO ABATEMENT

Bacillus thuringiensis israelensis are bacteria, which infect and kill mosquito larvae. These bacteria are highly selective, killing only mosquitoes and their close relatives like gnats and black flies. Formulations of Bti will only kill these types of insects and do not harm other kinds of insects, fish, birds, worms or any mammals. When Bti are eaten by the mosquito larvae, they damage the gut cells and quickly paralyze them, then kill the larvae quickly and efficiently. A moderate to heavy dose has been shown to reduce the mosquito population by one half in 15 minutes and the rest within one hour. MICROXYME BTI can be broadcast by hand. For larger applications and municipalities

### MICROXYME BTI DUNKS BACTERIA BLEND FOR MOSQUITO ABATEMENT

Bacillus thuringiensis israelensis are bacteria, which infect and kill mosquito larvae. These bacteria are highly selective, killing only mosquitoes and their close relatives like gnats and black flies. Formulations of Bti will only kill these types of insects and do not harm other kinds of insects, fish, birds, worms or any mammals. When Bti are eaten by the mosquito larvae, they damage the gut cells and quickly paralyze them, then kill the larvae quickly and efficiently. A moderate to heavy dose has been shown to reduce the mosquito population by one half in 15 minutes and the rest within one hour. MICROXYME BTI can be broadcast by hand. For larger applications and municipalities

## Dairy Microbial Treatment Products

### MICROXYME DT LIQUID BACTERIA TREATMENT FOR DAIRY APPLICATION

Is a liquid blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes formulated to accelerate decomposition and digestion of excess effluent nutrients including: milk sugar, milk proteins and milk fat in closed and open holding tanks and lagoons. MICROXYME DT Liquid is a blend of six facultative anaerobic microbial cultures making this product effective across a wide range of substrates and environmental conditions. The microbes in MICROXYME DT Liquid are strictly saprophytic and digest only non-living and dead materials. Use of MICROXYME DT Liquid in conjunction with agitation and aeration reduces B.O.D. and C.O.D. to acceptable levels. MICROXYME DT Liquid is non-toxic, non-caustic, non-acidic, non-pathogenic, biodegradable and harmless to plants, animals & humans.

### MICROXYME DT GRANULAR BACTERIA TREATMENT FOR DAIRY APPLICATION

Is a Granular blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes formulated to accelerate decomposition and digestion of excess effluent nutrients including: milk sugar, milk proteins and milk fat in closed and open holding tanks and lagoons. MICROXYME DT Granular is a blend of six facultative anaerobic microbial cultures making this product effective across a wide range of substrates and environmental conditions. The microbes in MICROXYME DT Granular are strictly saprophytic and digest only non-living and dead materials. Use of MICROXYME DT Granular in conjunction with agitation and aeration reduces B.O.D. and C.O.D. to acceptable levels. MICROXYME DT Granular is non-toxic, non-caustic, non-acidic, non-pathogenic, biodegradable and harmless to plants, animals & humans.



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## Bio-Remediation Technologies Speciality Industrial Products

### MICROXYME BIO-CLEAN LIQUID BACTERIA NEUTRAL CLEANER

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### MICROXYME PARTS WASHER TABS MICROBIAL TABS FOR INDUSTRIAL APPLICATIONS (PATENTED PRODUCT)

MICROXYME Parts Washer Tabs are a solid blend of product consisting of naturally occurring; scientifically selected (but not genetically manipulated) microbes formulated to bioremediate all fractions of crude or modified petroleum products that have accumulated on mechanical parts. MICROXYME Parts Washer Tabs are a blend of six facultative anaerobic microbial cultures that are effective across a wide spectrum of substrates and continue enzyme production until almost all oil contaminants and other organic wastes are consumed. In addition to specific enzymes, several cultures create their own bio-surfactant to aid in emulsifying oils and fats. MICROXYME Parts Washer Tabs are non-toxic, non-caustic, non-acidic, non-pathogenic (harmless to humans, pets & wildlife) and is biodegradable. MICROXYME Parts Washer Tabs may be used in conjunction with California Parts Washer Solution in a compatible parts washer machine assembly. Microxyme parts Washer Tabs may also be used alone to remediate and control hydrocarbon levels in industrial and commercial settings.

## Aquatic Treatment Products

### MICROXYME PD LIQUID DIGESTING BACTERIA FOR TREATMENT OF LAKES, LOGOONS, AND POND

Is a liquid blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes formulated to accelerate decomposition and digestion of biomass (sludge) and to consume excess nutrients including nitrates and phosphates. Ecological imbalances and bottom sludge result from an influx of fallen foliage, fish and animal wastes and 'non-point' pollutant organic and inorganic nutrient runoff from the surrounding watershed. MICROXYME PD Granular is a blend of six facultative anaerobic microbial cultures making this product effective across a wide range of substrates and environmental conditions. The microbes in MICROXYME PD Granular are strictly saprophytic and digest only non-living and dead materials. Use of MICROXYME PD Granular restores pond aesthetics and ecological balance thereby greatly reducing the need for mechanical dredging and treatment with harmful chemicals. MICROXYME PD Granular does not directly affect the population of any aquaculture; instead, the MICROXYME PD Granular blend of microbes feed on and reduce the amount of waste materials thus creating a healthier environment for aquaculture and by also reducing the amount of pathogens and other matter that may have also fed on the waste material by competitive displacement.

### MICROXYME PD POWDERED DIGESTING BACTERIA FOR TREATMENT OF LAKES, LOGOONS, AND POND

Is a liquid blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes formulated to accelerate decomposition and digestion of biomass (sludge) and to consume excess nutrients including nitrates and phosphates. Ecological imbalances and bottom sludge result from an influx of fallen foliage, fish and animal wastes and 'non-point' pollutant organic and inorganic nutrient runoff from the surrounding watershed. MICROXYME PD Granular is a blend of six facultative anaerobic microbial cultures making this product effective across a wide range of substrates and environmental conditions. The microbes in MICROXYME PD Granular are strictly saprophytic and digest only non-living and dead materials. Use of MICROXYME PD Granular restores pond aesthetics and ecological balance thereby greatly reducing the need for mechanical dredging and treatment with harmful chemicals. MICROXYME PD Granular does not directly affect the population of any aquaculture; instead, the MICROXYME PD Granular blend of microbes feed on and reduce the amount of waste materials thus creating a healthier environment for aquaculture and by also reducing the amount of pathogens and other matter that may have also fed on the waste material by competitive displacement.

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## Bio-Remediation Technologies Agricultural Products

### **MICROXYME CD GRANULAR** BIOLOGICAL TREATMENT FOR COMPOST DE-THATCH

Is a multi-cultured product specially formulated to accelerate the composting and dethatching process. MICROXYME CD Granular can be used on large-scale operations as well as backyard heaps. Use of MICROXYME CD Granular will provide up to 50% reduction in as little as 2 weeks. This product is available in granular form. MICROXYME CD Granular is a granular blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes, enzymes and nutrients designed to accelerate the composting and dethatching process. MICROXYME CD Granular is a unique combination of mesospheric microbes, molds and yeasts, and six selected microbial cultures, which all occur naturally in soil and compost but in smaller numbers. MICROXYME CD Granular is nontoxic, non-caustic, non-acidic, non-pathogenic (harmless to humans, pets & wildlife) and is biodegradable. MICROXYME CD Granular accelerates the composting of most domestic organic solid waste material including household yard and garden wastes. MICROXYME CD Granular is equally effective on large.

### **MICROXYME AQ GRANULAR** BACTERIA TREATMENT FOR AQUACULTURE

A multi-cultured product specially formulated to treat waste produced by aquaculture farms. MICROXYME AQ Granular can be applied directly into the water since it is safe for shrimp, fish and any other aquaculture. MICROXYME AQ Granular does not directly affect the population of any aquaculture; instead, the microbes reduce the amount of effluent waste materials present in the water to create a healthier environment for the aquaculture. As a result the amount of pathogens present in the water is also reduced as well as the B.O.D levels. Results have shown that MICROXYME AQ Granular increases the size and yields of aquaculture as well reducing the amount of aquaculture death due to diseases. This product is available in liquid and granular form. Is a liquid blend of product consisting of naturally-occurring, scientifically selected (but not genetically manipulated) microbes formulated to accelerate decomposition and digestion of excess nutrients including ammonia, nitrites, nitrates, phosphates, urea and fecal matter in aquaculture and ponds. MICROXYME AQ Granular is a blend of six facultative anaerobic microbial cultures making this product effective across a wide range of substrates and environmental conditions. The microbes in MICROXYME AQ Granular are strictly saprophytic and digest only non-living and dead materials. Use of MICROXYME AQ Granular in conjunction with aeration reduces BOD and COD to acceptable levels. MICROXYME AQ Granular does not directly affect the population of any aquaculture; instead, the MICROXYME AQ Granular blend of microbes feed on and reduce the amount of waste materials thus creating a healthier environment for aquaculture and by also reducing the amount of pathogens that may have also fed on the waste material by competitive displacement. MICROXYME AQ Granular microbial cultures are extremely effective in producing much healthier and larger yields in typical aquaculture operations, provided that a good supply of dissolved oxygen and proper feed for aquaculture are maintained.

### **MICROXYME AQ LIQUID** BACTERIA TREATMENT FOR AQUACULTURE

A multi-cultured product specially formulated to treat waste produced by aquaculture farms. MICROXYME AQ Liquid can be applied directly into the water since it is safe for shrimp, fish and any other aquaculture. MICROXYME AQ Liquid does not directly affect the population of any aquaculture; instead, the microbes reduce the amount of effluent waste materials present in the water to create a healthier environment for the aquaculture. As a result the amount of pathogens present in the water is also reduced as well as the B.O.D levels. Results have shown that MICROXYME AQ Liquid increases the size and yields of aquaculture as well reducing the amount of aquaculture death due to diseases. This product is available in liquid and granular form. Is a liquid blend of product consisting of naturally-occurring, scientifically selected (but not genetically manipulated) microbes formulated to accelerate decomposition and digestion of excess nutrients including ammonia, nitrites, nitrates, phosphates, urea and fecal matter in aquaculture and ponds. MICROXYME AQ Liquid is a blend of six facultative anaerobic microbial cultures making this product effective across a wide range of substrates and environmental conditions. The microbes in MICROXYME AQ Liquid are strictly saprophytic and digest only non-living and dead materials. Use of MICROXYME AQ Liquid in conjunction with aeration reduces BOD and COD to acceptable levels. MICROXYME AQ Liquid does not directly affect the population of any aquaculture; instead, the MICROXYME AQ Liquid blend of microbes feed on and reduce the amount of waste materials thus creating a healthier environment for aquaculture and by also reducing the amount of pathogens that may have also fed on the waste material by competitive displacement. MICROXYME AQ Liquid microbial cultures are extremely effective in producing much healthier and larger yields in typical aquaculture

## Bio-Remediation Technologies Hydrocarbon Remediation Products

### **MICROXYME CL LIQUID** BACTERIA TREATMENT FOR DIGESTION OF CHLORINATED SOLVENTS

Is a liquid blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes formulated to bio-remediate all types of chlorinated solvents, hydrocarbons, foams, surfactants, detergents and ethoxylated hydrocarbons. MICROXYME CL Liquid is a blend of twelve facultative anaerobic microbial cultures that are effective across a wide spectrum of substrates and continue enzyme production until almost all chlorinated solvent contaminants and other organic wastes are consumed. MICROXYME CL Liquid is non-toxic, non-caustic, non-acidic, nonpathogenic (harmless to humans, pets & wildlife) and is biodegradable. MICROXYME CL Liquid is ideal for contaminations in petro-chemical, steel-making and specialty chemical plants.

### **MICROXYME HC BIO-BLOCK** HYDROCARBON DIGESTING BACTERIA BLEND (PATENTED PRODUCT)

Solid, bacterial laden, block for use in degrading organic hydrocarbon waste. The unique block will gradually dissolve over a 35-120 day period, which allows for continuous treatment and degradation of waste. With a bacteria count of 4 billion per gram BIO-BLOCK Solid Bacterial Block breaks down Hydrocarbons and sludge buildup while reducing strong odors. 100% biodegradable. It does not contain any petroleum based solvents or other harsh chemicals

### **MICROXYME HC TABLET** HYDROCARBON DIGESTING BACTERIA BLEND (PATENTED PRODUCT)

Is a Solid blend of product consisting of naturally occurring; scientifically selected (but not genetically manipulated) microbes formulated to bio-remediate all factions of crude or modified petroleum products and paraffin wax. MICROXYME HC BIO TABS are a blend of six facultative anaerobic micro bio-cultures that are effective across a wide spectrum of substrates and continue enzyme production until almost all oil contaminants and other organic wastes are consumed. In addition to specific enzymes, several cultures create their own bio-surfactant to aid in emulsifying oils and fats. MICROXYME HC BIO TABS are nontoxic, non-caustic, non-acidic, non-pathogenic (harmless to humans, pets & wildlife) and is biodegradable.

### **MICROXYME HC POWDERED** HYDROCARBON DIGESTING BACTERIA BLEND

Is a Granular blend of product consisting of naturally occurring; scientifically selected (but not genetically manipulated) microbes formulated to bio-remediate all factions of crude or modified petroleum products and paraffin wax. MICROXYME HC Granular is a blend of six facultative anaerobic micro bio-cultures that are effective across a wide spectrum of substrates and continue enzyme production until almost all oil contaminants and other organic wastes are consumed. In addition to specific enzymes, several cultures create their own bio-surfactant to aid in emulsifying oils and fats. MICROXYME HC Granular is nontoxic, non-caustic, non-acidic, non-pathogenic (harmless to humans, pets & wildlife) and is biodegradable

### **MICROXYME HC LIQUID** HYDROCARBON DIGESTING BACTERIA BLEND

Is a liquid blend of product consisting of naturally occurring; scientifically selected (but not genetically manipulated) microbes formulated to bio-remediate all factions of crude or modified petroleum products and paraffin wax. MICROXYME HC is a blend of six facultative anaerobic micro bio-cultures that are effective across a wide spectrum of substrates and continue enzyme production until almost all oil contaminants and other organic wastes are consumed. In addition to specific enzymes, several cultures create their own bio-surfactant to aid in emulsifying oils and fats. MICROXYME HC is nontoxic, non-caustic, non-acidic, non-pathogenic (harmless to humans, pets & wildlife) and is biodegradable

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## Bio-Remediation Technologies Food Processing Products

### MICROXYME FP GRANULAR BACTERIA TREATMENT FOR DIGESTION FOOD PROCESSING WASTE

Is a liquid blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes, enzymes and nutrients designed to accelerate decomposition and digestion of sludge generated by fruit and vegetable processing and to consume excess nutrients. MICROXYME FP Granular is a unique combination of six selected facultative anaerobic microbial cultures, which are effective across a wide range of substrates and environmental conditions. MICROXYME FP Granular microbes are strictly saprophytic, meaning they only digest non-living and decaying materials. Use of MICROXYME FP Granular in conjunction with mechanical aeration and agitation reduces B.O.D. and C.O.D. to acceptable levels. MICROXYME FP Granular is ideal for treating wastewater generated during fruit and vegetable processing which have excess amounts of hemicelluloses, celluloses, pectin's and sugars.

### MICROXYME FP LIQUID BACTERIA TREATMENT FOR DIGESTION FOOD PROCESSING WASTE

Is a liquid blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes, enzymes and nutrients designed to accelerate decomposition and digestion of sludge generated by fruit and vegetable processing and to consume excess nutrients. MICROXYME FP Liquid is a unique combination of six selected facultative anaerobic microbial cultures, which are effective across a wide range of substrates and environmental conditions. MICROXYME FP Liquid microbes are strictly saprophytic, meaning they only digest non-living and decaying materials. Use of MICROXYME FP Liquid in conjunction with mechanical aeration and agitation reduces B.O.D. and C.O.D. to acceptable levels. MICROXYME FP Liquid is ideal for treating wastewater generated during fruit and vegetable processing which have excess amounts of hemicelluloses, celluloses, pectin's and sugars.

## Pulp & Paper Plant Products

### MICROXYME PM Liquid PULP AND PAPER MILL BACTERIA BLEND

Is a liquid blend of product consisting of naturally-occurring, scientifically selected (but not genetically manipulated) microbes, enzymes and nutrients designed to accelerate decomposition and digestion of sludge generated by wood processing and to consume excess nutrients built up in holding tanks and lagoons. MICROXYME Liquid PM is a unique combination of six selected facultative anaerobic microbial cultures, which are effective across a wide range of substrates and environmental conditions. MICROXYME Liquid PM microbes are strictly saprophytic, meaning they only digest non-living and decaying materials. Use of MICROXYME Liquid PM in conjunction with mechanical aeration and agitation reduces B.O.D. and C.O.D. to acceptable levels. MICROXYME Liquid PM is ideal for treating wastewater generated during paper manufacturing operations. Wastewaters from such operations have excess amounts of lignocelluloses, lignin's, hemicelluloses, celluloses and xylan along with other by-products such as sugar, proteins and pectin's in waste process water holding tanks and lagoons.

### MICROXYME PM Granular PULP AND PAPER MILL BACTERIA BLEND

Is a Powdered blend of product consisting of naturally-occurring, scientifically selected (but not genetically manipulated) microbes, enzymes and nutrients designed to accelerate decomposition and digestion of sludge generated by wood processing and to consume excess nutrients built up in holding tanks and lagoons. MICROXYME Granular PM is a unique combination of six selected facultative anaerobic microbial cultures, which are effective across a wide range of substrates and environmental conditions. MICROXYME Granular PM microbes are strictly saprophytic, meaning they only digest non-living and decaying materials. Use of MICROXYME Granular PM in conjunction with mechanical aeration and agitation reduces B.O.D. and C.O.D. to acceptable levels. MICROXYME Granular PM is ideal for treating wastewater generated during paper manufacturing operations. Wastewaters from such operations have excess amounts of lignocelluloses, lignin's, hemicelluloses, celluloses and xylan along with other by-products such as sugar, proteins and pectin's in waste process water holding tanks and lagoons.



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## Bio-Remediation Technologies Municipal Waste Treatment Processing Plant

### MICROXYME HIGH COUNT LIQUID HIGH COUNT BACTERIA BLEND

A blend of concentrated Facultative naturally occurring bacteria and enzymes that is superior to other wastewater products commercially available. 100% biodegradable; It does not contain any petroleum based solvents or other harsh chemicals Contains 1.1 Trillion Microbes per Gallon, Degrades fats oils & Greases. Specialized microbes provide rapid digestion of organic waste Eliminates odors & hydrogen sulfide levels. Safe in all drainage and wastewater systems.

### MICROXYME HIGH COUNT- POWDERED BACTERIA BLEND FOR INDUSTRIAL APPLICATIONS

A blend of concentrated Facultative naturally occurring bacteria and enzymes that is superior to other wastewater products commercially available. 100% biodegradable; It does not contain any petroleum based solvents or other harsh chemicals Contains 1.1 Trillion Microbes per Gallon, Degrades fats oils & Greases. Specialized microbes provide rapid digestion of organic waste Eliminates odors & hydrogen sulfide levels. Safe in all drainage and wastewater systems.

### MICROXYME HIGH COUNT TOSS BAGS HIGH COUNT BACTERIA BLEND

A blend of concentrated Facultative naturally occurring bacteria and enzymes that is superior to other wastewater products commercially available. 100% biodegradable; it does not contain any petroleum based solvents or other harsh chemicals Contains 1.1 Trillion Microbes per Gallon, Degrades fats oils & Greases. Specialized microbes provide rapid digestion of organic waste Eliminates odors & hydrogen sulfide levels. Safe in all drainage and wastewater systems.

### MICROXYME ST LIQUID HIGH COUNT BACTERIA BLEND

Is a liquid blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes designed to liquefy and consume organic wastes commonly found in domestic drainage and sewerage/septic systems. Microxyme ST liquid is a unique combination of six selected facultative anaerobic microbial cultures, which are effective across a wide range of substrates and environmental conditions. Microxyme ST Liquid microbes are strictly saprophytic, meaning they only digest non-living and decaying materials.

### MICROXYME ST POWDERED BACTERIA BLEND FOR INDUSTRIAL APPLICATIONS

Is a powdered blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes designed to liquefy and consume organic wastes commonly found in domestic drainage and sewerage/septic systems. Microxyme ST Granular is a unique combination of six selected facultative anaerobic microbial cultures, which are effective across a wide range of substrates and environmental conditions. Microxyme ST Granular microbes are strictly saprophytic, meaning they only digest non-living and decaying materials.

## Our Research Philosophy



### Bio-Remediation Technologies Microbial Odor Control Products

#### MICROXYME OE LIQUID HIGH COUNT BACTERIA BLEND THAT REDUCES MALODORS

Is a liquid blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes and designed to eliminate the malodors caused by grease, fats, oils and other organic wastes. MICROXYME OE Liquid will also bio-remediate almost all factions of animal fats and vegetable oils. The microbial cultures continue enzyme production until almost all grease and other organic wastes are consumed. MICROXYME OE Liquid is a unique combination of six selected facultative anaerobic microbial cultures, which are effective across a wide range of substrates and environmental conditions. MICROXYME OE Liquid microbes are strictly saprophytic, meaning they only digest non-living and decaying materials.

#### MICROXYME OE GRANULAR HIGH COUNT BACTERIA BLEND THAT REDUCES MALODORS

Is a granular blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes and designed to eliminate the malodors caused by grease, fats, oils and other organic wastes. MICROXYME OE Granular will also bio-remediate almost all factions of animal fats and vegetable oils. The microbial cultures continue enzyme production until almost all grease and other organic wastes are consumed. MICROXYME OE is a unique combination of six selected facultative anaerobic microbial cultures, which are effective across a wide range of substrates and environmental conditions. MICROXYME OE microbes are strictly saprophytic, meaning they only digest non-living and decaying materials.

### Turf Care Nutrients

#### MICROXYME TR LIQUID AGRICULTURAL NUTRIENT TREATMENT

Is a liquid product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes and fungi formulated to promote plant growth by increasing beneficial microbial activities in the rhizosphere. MICROXYME TR liquid also improves a plants resistance to fungal diseases including Rhizoctonia solani, Phytophthora spp, species of Pythium, Verricillium, Sclerotia rolfsii, Fusarium crown rot and other fungi that cause root rot, stem rot and fruit rot. MICROXYME TR liquid also stimulates root growth, therefore increasing the plants nutrient uptake that leads to healthier plants with greater and higher quality crop yields. MICROXYME TR liquid is a blend of Trichoderma, bacillus and other beneficial microbial cultures. MICROXYME TR liquid is non-toxic to plants, animals, aquaculture and humans.

#### MICROXYME TR GRANULAR AGRICULTURAL NUTRIENT TREATMENT

Is a granular product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes and fungi formulated to promote plant growth by increasing beneficial microbial activities in the rhizosphere. MICROXYME TR Granular also improves a plants resistance to fungal diseases including Rhizoctonia solani, Phytophthora spp, species of Pythium, Verricillium, Sclerotia rolfsii, Fusarium crown rot and other fungi that cause root rot, stem rot and fruit rot. MICROXYME TR Granular also stimulates root growth, therefore increasing the plants nutrient uptake that leads to healthier plants with greater and higher quality crop yields. MICROXYME TR Granular is a blend of Trichoderma, bacillus and other beneficial microbial cultures. MICROXYME TR Granular is non-toxic to plants, animals, aquaculture and humans.

### Animal Waste Microbial Products

#### MICROXYME TR GRANULAR AGRICULTURAL NUTRIENT TREATMENT

A granular blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes formulated to accelerate decomposition and digestion of biomass (sludge) that consists mainly of animal waste and to consume excess nutrients including nitrates and phosphates in lagoons and holding tanks. MICROXYME WTA granular is a blend of six facultative anaerobic microbial cultures making this product effective across a wide range of substrates and environmental conditions. The microbes in MICROXYME WTA granular is strictly saprophytic and digest only non-living and dead materials. Use of MICROXYME WTA granular in conjunction with mechanical aeration and agitation reduces B.O.D., C.O.D. and the malodors that result from anaerobic microbial activity. By performing a more efficient, less odorous waste reduction process, MICROXYME WTA granular substantially reduces the need for mechanical dredging and treatment with toxic chemicals.

#### MICROXYME TR LIQUID AGRICULTURAL NUTRIENT TREATMENT

A liquid blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes formulated to accelerate decomposition and digestion of biomass (sludge) that consists mainly of animal waste and to consume excess nutrients including nitrates and phosphates in lagoons and holding tanks. MICROXYME WTA Liquid is a blend of six facultative anaerobic microbial cultures making this product effective across a wide range of substrates and environmental conditions. The microbes in MICROXYME WTA Liquid is strictly saprophytic and digest only non-living and dead materials. Use of MICROXYME WTA Liquid in conjunction with mechanical aeration and agitation reduces B.O.D., C.O.D. and the malodors that result from anaerobic microbial activity. By performing a more efficient, less odorous waste reduction process, MICROXYME WTA Liquid substantially reduces the need for mechanical dredging and treatment with toxic chemicals.

COMMITTED TO THE HIGHEST  
STANDARDS OF **ETHICS** AND  
**INTEGRITY** WHILE STAYING  
CREATIVE IN RESEARCH  
AND DISCOVERY.



### Bio-Remediation Technologies Industrial Microbial Waster Water Control Products

#### MICROXYME WT LIQUID HIGH COUNT BACTERIA BLEND THAT REDUCES INDUSTRIAL WASTE

Is a liquid blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes formulated to accelerate decomposition and digestion of biomass (sludge) and to consume excess nutrients including nitrates and phosphates in wastewater treatment lagoons and holding tanks. MICROXYME WT Liquid is a blend of six facultative anaerobic microbial cultures making this product effective across a wide range of substrates and environmental conditions. The microbes in MICROXYME WT Liquid are strictly saprophytic and digest only non-living and dead materials. Use of MICROXYME WT Liquid in conjunction with mechanical aeration and agitation reduces B.O.D., C.O.D. and the malodors that result from anaerobic microbial activity. By performing a more efficient, less odorous waste reduction process, MICROXYME WT Liquid substantially reduces the need for mechanical dredging and treatment with toxic chemicals.

#### MICROXYME WT GRANULAR HIGH COUNT BACTERIA BLEND THAT REDUCES INDUSTRIAL WASTE

Is a granular blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes formulated to accelerate decomposition and digestion of biomass (sludge) and to consume excess nutrients including nitrates and phosphates in wastewater treatment lagoons and holding tanks. MICROXYME WT Granular is a blend of six facultative anaerobic microbial cultures making this product effective across a wide range of substrates and environmental conditions. The microbes in MICROXYME WT Granular are strictly saprophytic and digest only non-living and dead materials. Use of MICROXYME WT Granular in conjunction with mechanical aeration and agitation reduces B.O.D., C.O.D. and the malodors that result from anaerobic microbial activity. By performing a more efficient, less odorous waste reduction process, MICROXYME WT Granular substantially reduces the need for mechanical dredging and treatment with toxic chemicals.

#### MICROXYME WT BIO-BLOCK HIGH COUNT BACTERIA BLEND THAT REDUCES INDUSTRIAL WASTE (PATENTED PRODUCT)

Is a Solid blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes formulated to accelerate decomposition and digestion of biomass (sludge) and to consume excess nutrients including nitrates and phosphates in wastewater treatment lagoons and holding tanks. MICROXYME WT Bio Block is a blend of six facultative anaerobic microbial cultures making this product effective across a wide range of substrates and environmental conditions. The microbes in MICROXYME WT Bio Blocks are strictly saprophytic and digest only non-living and dead materials. Use of MICROXYME WT Bio Block in conjunction with mechanical aeration and agitation reduces B.O.D., C.O.D. and the malodors that result from anaerobic microbial activity. By performing a more efficient, less odorous waste reduction process, MICROXYME WT Bio Block substantially reduces the need for mechanical dredging and treatment with toxic chemicals.


#### MICROXYME WT BIO-TABS HIGH COUNT BACTERIA BLEND THAT REDUCES INDUSTRIAL WASTE (PATENTED PRODUCT)

Is a Solid blend of product consisting of naturally occurring, scientifically selected (but not genetically manipulated) microbes formulated to accelerate decomposition and digestion of biomass (sludge) and to consume excess nutrients including nitrates and phosphates in wastewater treatment lagoons and holding tanks. MICROXYME WT Bio Tabs is a blend of six facultative anaerobic microbial cultures making this product effective across a wide range of substrates and environmental conditions. The microbes in MICROXYME WT Bio Tabs are strictly saprophytic and digest only non-living and dead materials. Use of MICROXYME WT Bio Block in conjunction with mechanical aeration and agitation reduces B.O.D., C.O.D. and the malodors that result from anaerobic microbial activity. By performing a more efficient, less odorous waste reduction process, MICROXYME WT Bio Tabs substantially reduces the need for mechanical dredging and treatment with toxic chemicals.


OUR STRATEGY FOR  
LEADERSHIP IN SCIENCE  
IS TO ATTRACT THE BEST  
TALENT AND PROVIDE  
THEM AN ENVIRONMENT  
IN WHICH TO ACHIEVE.

## our research philosophy

COMMITTED TO THE HIGHEST STANDARDS OF **ETHICS** AND **INTEGRITY** WHILE STAYING CREATIVE IN RESEARCH AND DISCOVERY.



Microxyme Technologies is a global bioscience company that combines natural microbial product design expertise with microbial bio-fermentation science.



An unrelenting focus on breakthrough science research is the foundation of our success and the heart of our overall strategy.



OUR STRATEGY FOR LEADERSHIP IN SCIENCE IS TO ATTRACT THE BEST TALENT AND PROVIDE THEM AN ENVIRONMENT IN WHICH TO ACHIEVE.

## the forefront of discovery

**INNOVATION** IN ALL AREAS OF DISCOVERY AND DEVELOPMENT WITH PROGRAMS FOCUSED ON UNMET INDUSTRIAL NEEDS.

**BIOLOGICAL SCIENCES** Our customized in-house engineered fermentation technology has served as a platform for the development of a variety of unique, natural and eco-friendly microorganisms, which effectively degrade organic matter in a wide range of applications. Based on our combined experience, we are confident that we know how and where to efficiently ferment bacteria cultures.

**CHEMICAL ENGINEERING** Our engineers are skilled in designing the newest technologies and innovations so that our microbial fermentation process remains state of the art.

**MOLECULAR PROFILING** Identification of the most suitable strains is essential so that the combination of microbials are most effective in the particular application.

**BIOSTATISTICS** For typing microorganism variety and performance our team of professionals strategically examine a wide variety of organisms and screen only the strongest and most suitable microbials for our fermentation process. The growth excelleration is measured to format the most stable broths before the manufacturing process is started.

**CHEMISTRY** Our trained chemist are skilled formulators that are experienced across a variety of fields and gives us the optimal advantage in developing the latest innovations.

**EPIDEMIOLOGY** The importance of microbial bioscience research is essential in classifying valuable bacteria strains that can effectively improve newer research trends in nanotechnologies.


**PHARMACEUTICAL SCIENCE** Our latest endeavor is in nano-technologies as our team is working closely with the latest researchers to determine how our technologies can be utilized in pharmaceutical nano applications.

**TECHNICAL SUPPORT** Our flexible development and technical support services is designed to support our customers' business needs. Our development and technical services include custom product formulation and design, feasibility/proof-of-principle studies, stability trials, product validation studies, product scale-up/transfer to manufacture and full product-development programs.



## our facility

OUR SCIENTISTS ENJOY **STATE-OF-THE-ART** RESEARCH LABORATORIES SITUATED IN A CAMPUS-LIKE SETTING



Our manufacturing and laboratory facilities, strategically based in the United States and China, enable us to provide unrivalled global technical support and innovative, environmentally friendly solutions and services for a wide range of sectors, positioning the company to respond to the ever-changing demands of our customers. At Microxyme we are committed to our understanding of product regulations affecting different cities, states and countries. We have developed customized manufacturing processes in both the United States and China to ensure sustained availability of consistently high-quality products with short delivery times.