Wastewater Catalog — Fall 2021

Green Downstream® Products

BIOTECHNOLOGY THAT PUTS EARTH FIRST • MADE IN SOUTH CAROLINA

greendownstream.com

AMMONIA GUARD©

MICROBIAL DIGESTION SYSTEM

WASTEWATER NITRIFICATION INTENSIFIER

Digests Soluble and Organic Ammonia

Description

AMMONIA GUARD© is the most efficient product for reducing or removing ammonia from your treatment plant. Our formula's special blend of microbes and nutrients intensifies the conversion of ammonia to nitrates, which is known as nitrification.

Ammonia Guard© is a microbial digestion system designed to reduce or remove ammonia in wastewater systems. Formulated with natural microbial strains and botanical blends, Ammonia Guard© will intensify the nitrification process, then capture and digest both the soluble and the organic ammonia in the wastewater.

Benefits

- Prevents or lowers administrative fines and surcharges from non-compliant ammonia discharge limits
- Works effectively without introducing environmentally hazardous chemicals
- Safe, cost-effective and easy to incorporate into your treatment regimen
- Reduces TSS (total suspended solids)
- Reduces odors caused by excess ammonia

Storage + Shelf Life

We recommend storing in sealed containers at < 80° F for no longer than 8 months.

Applications

- Wastewater lagoons
- Industrial lagoons
- Wastewater treatment plants
- Livestock waste streams *(lagoons, pre-treatment plants, etc.)*

We recommended running tab trials prior to plant trials in order to set the proper dosage for your needs.

Contact your Martechnical Consultant for customized dosage details.

Wholesale Packaging

LIQUID

- 5 gallon pail
- 15 gallon pail
- 55 gallon drum
- 275 gallon tote

FOR PURCHASING INFORMATION
PLEASE CONTACT

REGAN W. NORRIS

803 518 4707 • regan@greendownstream.com

BioBOD©

MICROBIAL DIGESTION SYSTEM

WASTEWATER BOD REDUCER

Up to 70% Reduction in 24 Hours

Description

BioBOD© is the way to reduce or eliminate costly surcharges and fines that result from excessive BOD (biochemical oxygen demand). BioBOD© is designed specifically to lower BOD by using it as a nutrient for the microbes, which gives the entire treatment process a healthy boost. Your system can achieve up to a 70% BOD reduction in 24 hours. BioBOD© is safe to use, completely biodegradable, non-toxic and non-hazardous.

Benefits

- Reduces BOD numbers significantly with minimal time and cost
- Boosts the natural treatment process in wastewater plants by adding to the microbial activity
- Works effectively without introducing environmentally hazardous chemicals
- Reduces or eliminates surcharges/fines from excessive BOD numbers
- Safe, cost-effective and easy to incorporate into your normal treatment routine
- 100% biodegradable, non-toxic, non-hazardous

Storage + Shelf Life

We recommend storing in sealed containers at < 80° F for no longer than 8 months.

Applications

- Effluent holding tanks
- Industrial lagoons
- Wastewater treatment plants
- Bioreactors
- Influent digesters

Contact your Martechnical Consultant for customized dosage details.

Wholesale Packaging

LIQUID

- 5 gallon pail
- 15 gallon pail
- 55 gallon drum
- 275 gallon tote

BLOCK

- 4lb. slow-dissolving

FOR PURCHASING INFORMATION
PLEASE CONTACT

REGAN W. NORRIS

803 518 4707 • regan@greendownstream.com

C-5© ODOR NEUTRALIZER

HEAVY-DUTY ODOR ELIMINATOR

ENZYMATIC FORMULA SPECIFICALLY DESIGNED FOR THE DECOMPOSITION OF ORGANIC COMPOUNDS

Effectively Neutralizes Bacterial Odors

Description

C-5© ODOR NEUTRALIZER is an all natural, botanical product formulated to digest odor producing compounds generated from the decomposition of organic materials. The odor producing compounds are organic compounds containing sulfur or nitrogen functionality. Some of these compounds include the mercaptan family of compounds, which are sulfur based. The amino functional hydrocarbons of low molecular weight also create some petrifying malodors.

The decomposition of meat or carcasses creates hydrogen sulfide, but also creates caderverine, which is a hydrocarbon diamine. These compounds are produced when the bacteria digests the organic proteins in an anaerobic environment. This causes the bacteria to pull off the oxygen atoms on the amino acids of the proteins causing the production of sulfides, mercaptans and amino hydrocarbons.

C-5© Odor Neutralizer changes the environment to digest the proteins and fats down another biochemical pathway that does not produce the reduction by-products which cause odor production. Any ammonia or hydrogen sulfide present is digested by the live Cozymase System found in C-5© Odor Neutralizer, which uses these compounds as fuel for their cellular functions.

Storage + Shelf Life

Recommend storing in sealed containers at <80° F for no longer than 8 months.

Application

C-5© is a super concentrate. Dilute 5:1 with clean water. Spray onto carcasses, drains, lift stations, animal bedding areas, holding ponds, septic tanks, grease traps, farm areas, garbage dumpsters and holding areas. Spraying frequency depends upon the accumulation rate of waste products causing the odor. Carcass deodorizing requires treatment once per week. One gallon of diluted material will cover 1,000 square feet.

Contact your Martechnical Consultant for customized dosage details.

Wholesale Packaging

LIQUID

- 5 gallon pail
- Larger sizes available upon request

FOR PURCHASING INFORMATION PLEASE CONTACT

REGAN W. NORRIS

803 518 4707 • regan@greendownstream.com

FOG GUARD©

MICROBIAL NUTRIENT BLEND

ELIMINATES EXCESSIVE FOG BUILD-UP

Up to 90% Reduction in Fats, Oils, and Greases

Description

FOG GUARD© is an extremely easy and efficient way to save the money you may be wasting on pumping FOG (fats, oils and greases) from your system. FOG Guard© helps reduce grease cap formations and odors, keeping your system operating at peak efficiency. It may also help stabilize or even lower your equipment maintenance costs. FOG Guard© is a microbial digestion system designed to minimize or eliminate the excessive buildup of FOG by employing GRAS-listed microbes and a specific nutrient blend. FOG Guard© enzymes are released to break down triglycerides into smaller units. The microbes and enzymes then work in tandem until the long chain is reduced to two-carbon units. The process repeats until all FOGs are consumed.

Benefits

- Can achieve up to 90% reduction
- Prevents FOG buildup in lines and lift stations
- Reduces maintenance and repairs to pumps and floats
- Eliminates odors from rancid FOG
- Broad range of applications—grease traps, holding tanks, lift stations, wastewater treatment plants, collection systems, restaurant drain lines
- Reduces and minimizes buildup in sewer lines and won't reform downstream

Storage + Shelf Life

We recommend storing in sealed containers at < 80° F for no longer than 8 months.

Applications

- Grease traps
- Holding tanks or distribution boxes for drain fields
- Lift stations/collection systems
- Restaurant drain lines
- Wastewater treatment plants

Contact your Martechnical Consultant for customized dosage details.

Wholesale Packaging

LIQUID

- 5 gallon pail
- 15 gallon pail
- 55 gallon drum
- 275 gallon tote

BLOCK

- 4 lb. slow-dissolving

FOR PURCHASING INFORMATION
PLEASE CONTACT

REGAN W. NORRIS

803 518 4707 • regan@greendownstream.com

NOX GUARD©

MICROBIAL DIGESTION SYSTEM

DE-NITRIFICATION BOOSTER

Regulates Nitrogen for Effluent Water

Description

NOX GUARD© is designed to reduce nitrogen levels through the breakdown of nitrates/nitrites in the system. NOX Guard© is applied in an anoxic (low-oxygen) zone, where microbes break down the nitrates/nitrites by ingesting their oxygen atoms and liberating the nitrogen gas into the atmosphere. This is called de-nitrification.

Ammonia levels in the system must not be too high, or the conversion to nitrates/nitrites and then to nitrogen cannot be fully completed. Also, at this point in the treatment process, the BOD (biochemical oxygen demand) must be higher to feed the microbes and cause them to ingest more of the oxygen, which will boost the de-nitrification process. De-nitrification can cause sludge to become light and fluffy. Some sludge may float to the top of the water for a short time.

Benefits

- Reduces nitrate/nitrite levels
- Increases de-nitrification
- Reduces surcharges associated with high nitrogen levels
- Helps regulate nitrogen levels for land application of effluent water or discharge to local waterways

Storage + Shelf Life

We recommend storing in sealed containers at < 80° F for no longer than 8 months.

Applications

- Treatment of lagoons with a non-aerated cell or section
- Treatment plants after an aeration ditch or tank

NOX Guard© should be applied in an anoxic zone after aeration is used to convert ammonia to nitrates/nitrites. The ammonia levels must not be too high, and there must be an ample amount of BOD or other suitable carbon source in the water for the microbes to eat.

Contact your Martechnical Consultant for customized dosage details.

Wholesale Packaging

LIQUID

- 5 gallon pail
- 15 gallon pail
- 55 gallon drum
- 275 gallon tote

BLOCK

- 4 lb. slow-dissolving

FOR PURCHASING INFORMATION
PLEASE CONTACT

REGAN W. NORRIS

803 518 4707 • regan@greendownstream.com

OIL-CLEANSE© PAL

GREASE CAP DIGESTER

AGGRESSIVELY ATTACKS + BREAKS DOWN FATTY ACIDS

Enzymatic • Non-Emulsifying • Cost-Effective

Description

OIL-CLEANSE PAL© is the easiest and most efficient way to break down existing grease caps and keep your collection system flowing freely. Oil-Cleanse PAL© is a floating degreaser with a custom enzyme blend that aggressively attacks and breaks down fatty acids. Oil-Cleanse PAL© is safe, biodegradable, non-toxic, non-hazardous and cost-efficient.

Benefits

- Safe and easy to use
- Cost-effective way to keep collection systems flowing freely
- Enzymatic, non-emulsifying formula
- Neither toxic nor hazardous to the life of the collection system
- Keeps floats in lift stations from hanging up because of FOG (fats, oils and grease) buildup
- Prevents FOG buildup on wet-well walls and piping
- Breaks down grease caps naturally
- Helps prevent clogs in force mains and collection lines

Storage + Shelf Life

We recommend storing in sealed containers at < 80° F for no longer than 8 months.

Applications

The amount of Oil-Cleanse PAL© you apply will vary on the size of the lift station and the amount of grease cap in that station.

Generally, a few gallons of Oil-Cleanse PAL© are introduced into the system, with a gallon or two added periodically to keep the site fresh and active.

Contact your Martechnical Consultant for customized dosage details.

Wholesale Packaging

LIQUID

- 5 gallon pail
- 15 gallon pail
- 55 gallon drum
- 275 gallon tote

FOR PURCHASING INFORMATION
PLEASE CONTACT

REGAN W. NORRIS

803 518 4707 • regan@greendownstream.com

SEPTIC-GUARD©

SEPTIC SYSTEM MAINTENANCE

MAINTAINS SYSTEM EFFICIENCY AND PREVENTS BUILD-UP

Works in Cold Climates • Cost-Effective

Description

SEPTIC-GUARDE© is the ultimate preventative measure in maintaining a healthy septic system. Simply add 1 gallon of Septic-Guarde© and flush down your system's toilet once or twice a year. You'll maintain your system's efficiency, avoid frequent pumping and ensure the life of your drain field. Septic-Guarde©™ will put an end to the overabundance of organic waste, along with reducing the costly expense of pumping your septic tank.

Benefits

- Prevents clogs or backup in septic tanks and drain fields caused by excessive buildup of organic waste
- Easy and safe to use
- Has no negative biological effect on septic system or piping
- Helps thaw frozen septic systems
- Maintains free-flowing drain fields in cold-climate regions (South Dakota, Minnesota, Michigan, etc.)

Storage + Shelf Life

We recommend storing in sealed containers at < 80° F for no longer than 8 months.

Applications

Flush 1 gallon of Septic-Guarde© down the toilet once or twice per year to maintain a healthy septic system.

Contact your Martechnical Consultant for customized dosage details.

Wholesale Packaging

LIQUID

- 5 gallon pail
- 15 gallon pail
- 55 gallon drum
- 275 gallon tote

FOR PURCHASING INFORMATION
PLEASE CONTACT

REGAN W. NORRIS

803 518 4707 • regan@greendownstream.com

SLUDGE-GUARD©

MICROBIAL SLUDGE DIGESTER

MAINTAINS SYSTEM EFFICIENCY AND PREVENTS BUILD-UP

Effective on BOD • COD • Ammonia

Description

SLUDGE-GUARD© is a natural way to reduce sludge by up to 50%. That reduction can translate into real savings for your system – in time, labor and money!

Sludge-Guard© reduces sludge by using it as a nutrient or food source and digesting it. Plus, by decreasing the sludge content in your system, Sludge-Guard© will help promote the system's overall health and work to reduce other contaminants that bind to the sludge, such as BOD (biochemical oxygen demand), COD (chemical oxygen demand) and ammonia.

Sludge-Guard© is safe and easy to use, 100% biodegradable, non-toxic and non-hazardous!

Benefits

- Reduces sludge by up to 50%
- Promotes overall health of wastewater system
- Improves discharge limits
- Increases microbial activity in a biological system
- Available as liquid or block

Storage + Shelf Life

We recommend storing in sealed containers at < 80° F for no longer than 8 months.

Applications

- Polish ponds
- Activated sludge systems
- Treatment lagoons
- Sludge digesters
- Distribution boxes for drain fields

Contact your Martechnical Consultant for customized dosage details.

Wholesale Packaging

LIQUID

- 5 gallon pail
- 15 gallon pail
- 55 gallon drum
- 275 gallon tote

BLOCK

- 4 lb. slow-dissolving

FOR PURCHASING INFORMATION
PLEASE CONTACT

REGAN W. NORRIS

803 518 4707 • regan@greendownstream.com

VICKZYME©

SUPER SLUDGE DIGESTER

FORMULATED SPECIFICALLY FOR SLUDGE REDUCTION

Effective on BOD • Ammonia • Nitrates • TSS

Description

VICKZYME© is an extremely easy and cost-efficient way to reduce the buildup of organic sludge naturally. Formulated specifically for sludge reduction, its unique enzymatic blend attacks and digests organic sludge, which—compared with traditional "pump-and-haul" methods—can help you save money.

Vickzyme© improves water's clarity, which makes UV systems all the more efficient in disinfecting the water. It also helps reduce such effluent impurities as BOD (biochemical oxygen demand), ammonia, nitrites/nitrates and TSS (total suspended solids). Vickzyme© is completely safe, biodegradable, non-toxic and non-hazardous.

Benefits

- Reduces organic sludge up to 60%
- Boosts microbial activity and reproduction
- Reduces polymer usage/costs
- Won't harm existing microbial environments
- Integrates easily into your plant's treatment routine
- Reduces energy and disposal costs

Storage + Shelf Life

We recommend storing in sealed containers at < 80° F for no longer than 8 months.

Applications

- Sludge lagoons
- Holding tanks or collection areas
- Sludge digesters—to decrease the cost of belt pressing and hauling
- Polish ponds
- Activated sludge systems
- Septic systems—to keep them flowing properly
- Distribution boxes leading to drain fields—to prevent sludge buildup

Consult your Martechnical Consultant for larger volume applications.

Wholesale Packaging

LIQUID

- 5 gallon pail
- 15 gallon pail
- 55 gallon drum
- 275 gallon tote

BLOCK

- 4 lb. slow-dissolving

FOR PURCHASING INFORMATION
PLEASE CONTACT

REGAN W. NORRIS

803 518 4707 • regan@greendownstream.com