



Through research and development, has been developed a revolutionary product, **B-MAGIC**. It is changing how the wastewater industry handles BOD/COD, sludge, compost accelerations, odor, and other problems that wastewater plants deal with on a daily basis. B-Magic is an all-natural botanical blend that is non toxic, environmentally safe, and meets or exceeds federal, state, and local government standards.

B-MAGIC has proven to be effective in countless wastewater treatment facilities across the southeast handling both domestic and industrial wastewater. It is also being used in lift stations, high pressure sewer cleaning equipment, compost accelerations and landfill applications. B-Magic has also proven to be more economical in wastewater treatment than conventional chemicals, bacteria/enzymes and physical treatments.

Wastewater Problems

For many years, governments and industries throughout the country have used chemical & bacteria/enzyme products for treatments in their facilities with little or no success. Bacteria/enzyme products are quick and short term fixes only. Regardless of the bacteria or enzyme count, 28 million or 550 billion, they cannot fight off the buildup of sludge, oils, and harsh chemicals to prevent scum formation and odor. Therefore, they are almost always in a non productive stage. That is why these products have to be introduced in such large costly quantities.



The Solution

Rather than just pouring in enormous amounts of products to get sufficient results, B-Magic is the solution! It is a multi blend of bio-cultures and botanical products B-Magic strengthens the existing bacteria which allows it to build up a resistance to harsh conditions. By having a resistance, the bacteria is constantly feeding and breaking down organic matter at many times its normal rate. It reproduces more efficient and productive enzymes which improves the overall treatment system.

By using **B^{MAGIC}** on a daily basis, the following will occur:

- Begins to activate existing bacteria immediately and reduces BOD/COD and overall sludge volume in clarifiers and lagoons
- A minimum reduction of odor from 85% to 100% in wastewater facilities, lift stations, holding ponds and landfill applications by reducing the amount of hydrogen sulfide
- Reduces sludge up to 20% - 35% in aerobic/anaerobic digesters in 30 days
- Removal of oil deposits and scum formation in holding tanks, sewers, drains, and aeration basins resulting in less odor
- Prevent ponding, blocking, and possible collapse of filter bed media
- Effluent quality is improved
- Resistant to many chemical shocks and reduces recovery time



Odor Treatment

With **B^{MAGIC}**, there is a significant reduction of obnoxious odors, and employee and public relations nightmares.

B^{MAGIC} can reduce odors by a minimum of 85% or even eliminate them completely. It also has been successful in eliminating manure odors, noxious gasses and other offensive odors B-Magic is effective in lift stations, treatment facilities, or other holding areas. B-Magic has also been instrumental in changing how cities and businesses approach land applications.

High Pressure Sewer Cleaning Equipment

B^{MAGIC} is currently being used in several cities across Mexico as a degreaser in sewer cleaning equipment. By using B-Magic, it breaks down buildup on the walls and eliminate hydrogen sulfide. It also leaves behind wetting agents that continue to break down and digest the grease long after the cleaning has been completed.

Compost Accelerator

B^{MAGIC} is a super accelerant of the decomposition process. It aids in the process by increasing growth and strengthening present active microbes. By strengthening the microbes they can withstand most outside factors that normally slow or halt growth. By speeding up the composting process it can cut your composting time down significantly. In the tequila industry in Mexico, **B^{MAGIC}** has done miracles in the composting of the fibrous by-products of the industry.



B-MAGIC will also reduce the amount of ammonia, which is the cause of most foul odors in composting and decrease the loss of nitrogen.

Applications

Treatment Plant (Solid Reduction)

For best results we recommend treatment of the effluent at the head of the plant with a minimum of 3 to 6 parts per million to shock the system and then reduce the application for maintenance.

Aeration Basins (Odor Reduction)

We recommend shocking the system with at least 40 liters and then treat it with about 3 to 5 parts per million daily.

Lift Stations

Shock system with 4 liters per 160,000 liters (No more than 60 liters should be needed regardless of size). Then drip 8 liters for every 160,000 liters per week for one month. The following month, drip 4 liters a week. After reaching desired results, drip at whatever rate is necessary to maintain those results.

Lagoons

On an average half ha. lagoon with a depth of 2 meters, shock the lagoon with a minimum of 60 liters, and then treat the effluent with 3 to 5 parts per million a day.

High Pressure Sewer Cleaning Equipment

4 liters of B-Magic to every 1000 liters of water

***There is no one set formula that will be effective everywhere. These are rules of thumb formula that will help get the process started in the right direction. The amount of product varies with the individual desired results.



The Process

B^{MAGI} is designed to breakdown organic matter without using traditional methods of dumping large amounts of foreign bacteria into a system.

Our product uses botanical blends that act as a nutrient steroid to strengthen and build up the present bacteria so that it becomes resistant to harsh conditions. This process promotes exceptional growth of the existing bacteria, that results in a rapid consumption of organic solids.

Traditional methods have been around for many years with little or no success. The reason being, this method tends to create cannibalism. What cannibalism means, is that the new bacteria being introduced attack the present and weaker bacteria and, the few strong ones that survive are left with the overwhelming task of eating an enormous amount of organic matter, while dealing with harsh conditions causing the system to be counter productive.

With **B^{MAGI}** being introduced to the system, the present bacteria will become re-energized, stronger, and able to handle harsh conditions. This allows the present bacteria to start working at higher and more productive rates than normal, under ideal growth conditions, to break down organic matter without creating cannibalism.



The Facts About **B**MAGIC

Multi-blend of bio-cultures and botanical blends

- **Act as a nutrient for existing bacteria**
- **Actively energizes bacteria immediately**
- **Eliminates odors**
- **Non-Toxic**
- **Environmentally safe**

Where can I apply this?

- **Treatment Facilities**
 - a. **Aeration Basins**
 - b. **Effluent**
 - c. **Anaerobic & Aerobic Digesters**
 - **d. Poultry Processing Plan**
-
- **Belt Press**
 - **Lift Stations**
 - **Composting**
 - **High Pressure Sewer Cleaning Equipment**
 - **Holding Ponds and Lagoons**



Wastewater

- **Digests grease, oil, and other organic matter**
- **Produces more efficient and productive enzymes**
- **Reduction of BOD/COD in overall sludge volume**
- **Effluent quality is improved**
- **Decrease recovery time after upsets**
- **Resistant to many chemical shocks**
- **Reduces or eliminates hydrogen sulphide**
- **Works in a pH range of 4-11**
- **Reduces sludge up to 20% - 35% in aerobic/anaerobic digesters in 30 days.**