

MEGA MICROBES®

MEGAMICROBES® DRY (powder formula) Residential & Commercial Application Manual



neoLogic
solutions
filtration division

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CONVERSION CHART

We have attempted to provide approximate metric equivalents to all recommended dosages and points of measurement. Here is a general table of equivalences for your usage:

US STANDARD MEASUREMENT	METRIC EQUIVALENT (APPROXIMATED FOR CONVENIENCE)
1 Pound	½ Kilogram
1 Tablespoon (Matches Scoop In 2Lb Jars)	14 Milliliters (A Soup Spoon Is Good Indicator)
1 Pint	½ Liter
1 Quart	1 Liter
1 Gallon	4 Liters
1 Inch	2.5 Centimeters
1 Foot	.3 Meters Or 30 Centimeters

WHAT IS MEGAMICROBES® NATURAL DRAIN CLEANER?

MegaMicrobes Dry is a premium-quality combination of natural bacillus bacteria (non-pathogenic) and enzymes that metabolize and liquefy (turn to water) dead organic waste – i.e. fats, oil, grease (FOG), hair, paper, food particles, cotton, blood, etc. MegaMicrobes will not digest or have any effect on inorganic material such as metal or plastic pipe. The bacteria in MegaMicrobes do not produce any heat, fumes, or corrosive action like chemicals do.

MegaMicrobes Liquid is a separate product with a different formulation and application instructions.

HOW DOES MEGAMICROBES WORK?

MegaMicrobes Dry is distributed in a powder form. Within 30 minutes after the bacteria has been mixed in room temperature water, they become activated and begin feeding upon a special food which is contained in the formula. Our cultures are specially cultivated for the applications described, and embedded in a quantity that far exceeds competitive products.

After the first hour, the bacteria will have doubled in number. The bacteria will then begin to digest the dead organic waste that is accumulated in the pipes and grease traps. The bacteria will defy gravity by embedding themselves into the waste, resembling a honeycomb in structure.

The bacteria will clean the whole pipe (top, sides, and bottom) because they are embedded in the waste and they will continue to multiply and travel through the waste until the waste is fully digested. When all of the organic waste is gone, the bacteria will then cannibalize itself until they die from lack of food.

THE ANTI-GRAVITY EFFECT

Gravity causes chemicals along the bottom of a clogged pipe. Thus chemicals cannot clean the whole pipe. Chemicals only burn a hole in the waste at the bottom of the pipe that the chemical comes into contact with. Once the initial reaction of the chemical is over it will run out of the pipe and into the environment creating more pollution.

NEED FOR ADDITIONAL APPLICATIONS

MegaMicrobes is applied in repeat applications and regularly for these reasons:

1. Bacteria age and die
2. A certain number of bacteria is carried off as waste falls from the pipe
3. Waste continues to build up over time
4. Compliance with anti-pollution laws (where applicable)



The 2-pound standard jar of MegaMicrobes® comes with a complete set of instructions as well as a one tablespoon (14.7 ml) plastic measure scoop.

INITIAL TREATMENT

For best results you will want to “purge” the system. Treat drains at some time when MegaMicrobes will have 6-8 hours to work undisturbed, overnight, for example, or in the morning when everyone is leaving the house for the day. You purge the system by applying MegaMicrobes to EACH drain for 5 consecutive days. For most drains, mix one tablespoon (15 milliliters) with one pint (.5 liters) of warm water (NEVER hot). If possible, let it stand for 45 minutes before pouring it into the drain.

Alternatively, you can simply pour 1 tablespoon (15ml) of MegaMicrobes into the drain and follow with approximately 1 pint (.5 liters) of warm water. The first method is the preferred way, but either will work. For drains 2 inches (5 centimeters) or larger, use 1 tablespoon per inch (15ml per 2.5cm) of pipe diameter. For example, a 4-inch (10cm) pipe would get 4 tablespoons (60ml) mixed with 4 pints (2 liters) of water. After completing this purge program, you will apply a **maintenance treatment of MegaMicrobes once a month under normal conditions.**

TIPS FOR BEST RESULTS

1. Hair build-ups in great quantities in bathtubs and lavatories. Remove as much of it as you can manually before treatment. Otherwise, daily treatments for 30 to 60 days may be necessary because hair decomposes very slowly. This is still better than replacing the pipes.
2. MegaMicrobes will not digest inorganic materials such as those made from metal or plastic found in common bathroom objects such as bath toys, combs, toothbrushes, etc. If flow does not improve after recommended treatment, the cause is probably inorganic. Remove the obstruction manually and continue treatment with MegaMicrobes.
3. You can mix up enough MegaMicrobes at once in a bucket to apply to all drains, but remember that the mixture must be used within about 60 minutes – it cannot be stored in solution. Once the bacteria are activated by water, they must have waste to act on or they will digest themselves and die.
4. After the initial period of daily application, it is recommended to apply MegaMicrobes as drain cleaner on a monthly basis. This will also help keep septic tanks and fields healthier. The recommended application is one tablespoon (15ml) per month in bath and shower, kitchen sink, lavatory sink, toilet, laundry, and dishwasher. Floor drains should be given 2 tablespoons (30ml) per month.

ADDITIONAL NOTES

- Never use other drain products while using MegaMicrobes
- For homes on a septic system – treat septic BEFORE house drains
- On multi-story homes or buildings, start initial treatment on the lowest level and progress to the top. Complete the 5-day treatment before going to the next higher floor.
- Buildings with main sewer problems over 100 feet (30m) from the building need additional amounts according to the length of sewer. For 200 feet (60m) double original dosage and water. Triple or 300 feet (180m), etc.
- Drain pipe flow will improve within 1 to 3 weeks. During this time a stoppage may occur due to chunks of waste loosened. Use a plunger or cable to restore flow. Do not become discouraged – this means MegaMicrobes is removing the build-up and with periodic treatment will prevent re-accumulation.

ADDITIONAL NOTES

- Very hard water causes slime in reservoir tanks. Add 1 tablespoon (15ml) as needed to eliminate slime. Do not flush for several hours.
- Mouthwash should be disposed of into toilet during treatment periods. If sink must be used, flush with large volume of water. (Mouthwash will kill the active bacteria in MegaMicrobes.)
- Roots – Although MegaMicrobes will not attack live tissue, its use will discourage root growth by eliminating waste buildup that the roots feed on. If roots are known to exist within the sewer pipes, enough root killer for the length of line should be used before trees start new growth in spring. Allow two weeks of use before re-starting the use of MegaMicrobes.

MAINTENANCE

Apply MegaMicrobes once a month per the following chart:

RESIDENTIAL MAINTENANCE CHART

Floor Drains	2 Tablespoons (30 milliliters)
All other drains	1 Tablespoon (15 milliliters)

Homes on a septic system having garbage disposal, dishwasher, or washing machine: one spoonful of MegaMicrobes should be added each week to each of these drains.

MOST ECONOMICAL METHOD

Use ½ of the MegaMicrobes called for. Mix with water at the ratio of ½ tablespoon per pint of lukewarm water. Let stand for 1 hour. Stir up and pour 1 quart of mixture into drain for each tablespoon called for. (Example: 4 tablespoons called for – mix 2 tablespoonful with 4 quarts* of water). **DO NOT LET MIXTURE STAND LONGER THAN 1 HOUR!**

NOTE: (quart and liter are approximately the same: 1 quart = .946 liter)

GARBAGE DISPOSAL ODORS

Mix 1 tablespoon (14.8 ml, “soup spoon size”) MegaMicrobes with 1-pint (~ .5 liter) water. Turn on disposal. Dump mixture in and quickly turn off disposal. Do not use for several hours. Repeat as needed.

SEPTIC TANKS, CESSPOOLS

Nothing is more effective for biodegrading waste in septic systems than MegaMicrobes®. But no product can fix mechanical problems. We recommend MegaMicrobes as part of a program of preventative maintenance which includes regular inspection of the tanks and baffles, and the proper use of water and drainage systems.

- Before using MegaMicrobes check the solids on top of the waste. IF IT IS HARD, MEASURE IT. Pump the tank/cesspool if the crust is more than six inches thick OR if the sludge build-up on the bottom is 12 inches (30 cm) or more. If there is a thin crust, break it up thoroughly and slosh initial treatment over the top.
- Wait 2-3 weeks after pumping before applying product.

INITIAL TREATMENT

Tank Size	MegaMicrobes Dry®	Water
500 gals. 2000 liters	1.0 lb. .45 kg	2 gals. 7.5 liters
750 gals. 3000 liters	1.5 lbs. .68 kg	3 gals. 11 liters
1000 gals. 4000 liters	2.0 lbs. .75 kg	4 gals. 15 liters
1250 gals. 5000 liters	2.5 lbs. 1 kg	5 gals. 19 liters
1500 gals. 6000 liters	3.0 lbs. 1.5 kg	6 gals. 23 liters

Cesspools: Double the amount of MegaMicrobes

Stir up the mixture and pour directly into tank, cesspool or into a drain going into tank, cesspool or into a drain going into tank. Apply at a time when no water will be run for several hours, e.g. at bedtime.

- Biodegradable cleaners help your tank/cesspool work better.
- Conservative and occasional use of bowl cleaners and bleaches is compatible. Avoid using chlorinated dish washing and laundry detergents. Do not use automatic bowl cleaners (the type that dispense with each flush.) Your system **depends on bacteria**. Killing them with chemicals will result in expensive pumping or even field replacement.
- Absorption fields which have water coming to the surface may require 3 months or so to fully restore percolation. The field can be restored faster if an amount of MegaMicrobes equal to the initial tank treatment is mixed with twice the amount of water and poured in the distribution box.

MAINTENANCE

Unlike other products you will not need periodic tank treatments provided the house drains are given initial treatments and weekly maintenance treatments.

IF YOU HAVE WELL WATER

Acid water is very detrimental to biological action and plumbing. You can prevent costly repair bills by contacting us if the pH of your water is below 7.0.

RESIDENTIAL APPLICATIONS



CAT LITTER BOXES

After putting new litter in cat box, lightly cover entire surface area with dry MegaMicrobes®.

MOTOR HOMES, BOATS

After first use of facilities, sprinkle 1 tablespoon into the toilet. This should be sufficient until the toilet facilities are emptied. If an odor is noticed before dumping occurs, an additional 1 tablespoon may be used.

OUTHOUSES

Mix 1 cup (~ .25 liter) of MegaMicrobes with 2 gallons (~ 8 liters) of water. Use of a sprinkling can or sprayer set for coarse spray to distribute mixture over the waste. Since the microorganisms must have moisture to work, waste should be kept wet by spraying periodically with clear water. Then once a month mix 2 tablespoons of MegaMicrobes in ½ gallon (~ 2 liters) of water and distribute over the waste material.

MONEY-BACK GUARANTEE

MegaMicrobes should be allowed sufficient time to perform and when used as per instructions is warranted to give customer satisfaction. All warranties are limited to the refund of the purchase price, by the dealer from whom it was purchased, upon presentation of the can with the unused portion of the product and proof of purchase.

Applies to 2lb size only.

RESTAURANTS & COMMERCIAL KITCHENS

The use of MegaMicrobes® in commercial kitchens can substantially reduce the expense of pumping out grease traps. By eliminating backups, MegaMicrobes also eliminates the risk of costly shutdowns, fines by city inspectors, and foul odors that may be detected by customers.

OPTIMIZING CONDITIONS FOR TREATMENT

To obtain the maximum benefit from use of MegaMicrobes in a commercial kitchen, it is helpful to understand the relationship of sanitizing chemicals, pH levels, and dishwasher temperatures.

NEUTRALIZING SANITIZERS

All commercial kitchens use sanitizers to disinfect counter-tops, floors, cookware, dishes, and utensils. They work by **killing bacteria**, which obviously works against the effectiveness of MegaMicrobes. Quaternary or bleach sanitizers are used for counters, utensils, cookware and floors. Sodium hypochlorite is usually used in dishwashers.

pH is a standard measure of acidity and alkalinity that runs on a scale from 0 to 14. 0-7 is acidic, 7 is neutral, and 7-14 is alkaline. MegaMicrobes only works in a range from 6.5 to 8.0, with 7 as the ideal target. Therefore, it is important to measure pH levels of water entering the drains and get them to a level for optimal biological activity at the drain pipe and grease trap.

DISHWASHER WATER TEMPERATURE

Commercial dishwashers come in 2 categories: 180°F/82°C and 140°F/60°C. 180°F/82°C dishwashers sanitize with the heat of the water. **Using the higher heat is the preferred method**, along with a bio-degradable, non-chlorinated detergent. Chlorine in detergent will kill friendly bacteria down line in the plumbing system.

140°F/60°C dishwashers sanitize with chemicals, which again, will destroy the friendly bacteria down the line.

So the **preferred method for is to use a 180°F/82°C dishwasher with non-chlorinated, bio-degradable detergent.**

This not only helps MegaMicrobes to work effectively, it will dramatically reduce the consumption of chemical sanitizers and need to need to modify pH levels.

GREASE TRAPS

The single biggest source of expense and odors in food service operations is the **grease trap**.

INITIAL TREATMENT

MegaMicrobes® can eliminate the odor, reduce the frequency of pumping and stop untimely drain blockages. It also provides **community benefit** by significantly reducing fat, oil, and grease deposits (FOG waste) into local sewer systems, a major concern for municipalities around the world.

If you are working with an indoor grease trap, remove the cover. If there is a 1-inch or more layer of grease on the top, it will have to be cleaned manually. Mix the recommended amounts of MegaMicrobes and water and let it soak while you remove both the solids and water from the trap. Next, fill the tray with warm water. Stir the mixture and pour it directly into the trap.

If there is less than 1-inch of solids in the trap, check the pH. If the pH is between 6.5 and 7.5, pour in the initial treatment. If the pH is below 6.0, pour in a mixture of baking soda (sodium bicarbonate) soda ash, or specialty product for pH modification until the pH hits 7.0. Then add the MegaMicrobes. Don't worry if you are not exactly at 7.0 – we just want to optimize the action of the microbes as much as possible.

Outdoor traps will have to be pumped if the solids on top are 1-inch (2.5 cm) or more thick. Once the trap is cleaned, there is very little food or water for the bacteria. So wait one day after the trap has refilled before adding the initial treatment of MegaMicrobes. If the solids are less than 1-inch (2.5 cm) thick in the grease trap, be sure the pH is in the 7 PR neutral range before applying the MegaMicrobes.

MAINTENANCE

Usually, the maintenance treatment of the drains connected to the grease trap will supply a regular dosage of MegaMicrobes to the trap. However, sometimes there may be a drain from a dishwasher or other fixture that is not accessible to treatment. In this situation, you will need to apply the "Maintenance Dosage" of baking soda and MegaMicrobes into another drain connected to the grease trap.

Always check the pH in the grease trap once a week for the first month to make sure the pH is close too neutral. You will usually need to apply some baking soda and MegaMicrobes to the grease trap on a weekly basis. This can be done through a fixture connected to the grease trap. For instance, slowly mix a gallon of warm water and baking soda in the sink. Pull the plug to drain. Follow with the same mixing MegaMicrobes with warm water and again pulling the plug. NEVER mix the two together! Baking soda is used first.

DRAINS AND FIXTURES

Just as when treating grease traps, it is important to take into account the use of sanitizers and other substances finding their way into drains within specific locations. For example, **pickle juice** should only be poured in to drains not connected to the grease trap, because it has an acid pH of about 3.0 and will inactivate the MegaMicrobes®. Mop bucket water should be dumped down the toilet to prevent the sanitizer from ending up in the grease trap.

INITIAL TREATMENT

Begin the initial treatment for drains the day after you have treated the indoor grease trap or after pumping an outdoor trap. Drains should be assessed as to how much sanitizer is going into each one on a daily basis. These drains must be treated with baking soda before being treated with MegaMicrobes.

For example, if they are using 4 ounces of sanitizer in the sink, you would use 4 ounces of dissolved baking soda to neutralize it. Basically, it is a 1:1 ratio. When done sanitizing, simply add 4 ounces of dissolved baking soda, stir slowly for a few seconds, and then pull the plug. They must do every time before dumping the sink.

Remember, MegaMicrobes should be applied at a time when it will have the longest time to work undisturbed. Treat each drain for 5 consecutive days. This initial treatment is done to purge the system. Use one tablespoon per pint of water except for drains 2 –inches or larger, use 1 tablespoon per inch of pipe diameter. Mix with one pint of warm water per tablespoon used.

MAINTENANCE

Identify any high use or frequently troubled drains. Examples would be steam kettles, pot sinks, deli or bakery drains, meat preparation areas and spray sinks by dishwashers. Continue to treat these drains daily. Use the initial treatment dose of both baking soda and MegaMicrobes. Although dishwashers are heavy use drains, they main not need daily treatment. Ask how often this drain has been cabled in the last twelve months. If it is more than ONCE, continue DAILY treatment. Otherwise, once a week should do.

For odors in small garbage disposals, mix 1 tablespoon of MegaMicrobes with 1 pint of lukewarm water. Turn on the disposal. Dump the mixture in and quickly turn off the disposal. Do not use for several hours. Repeat as necessary. For large disposals, use 2 tablespoons and 2 pints of water.

For drains with moderate use, cut the initial dosage in half and treat weekly. Drains that have little or no water and organic material going into them can be treated once a month. Obviously, these are very general rules. Remember, if you are not sure, it is always better to use more and treat more often. You can always back off. But, if you use too little, not only will drains give you trouble, the grease trap will too.

Drains not connected with the kitchen such as bathrooms, waitress stations, etc. are treated with the initial 5-day PURGE and then once a month.

COMMERCIAL DISHWASHERS

As described in a previous section, commercial dishwashers fall into two water temperature categories. The 140° causes more problems. If the dishwasher does not go through the grease trap, we will have to treat the drain the dishwasher dumps into with baking soda before you apply MegaMicrobes®. In most installations where there is an internal grease trap, the dishwasher doesn't go through it. If the 140° has a large volume of water going through a small interior grease trap, the dishwasher will usually wash the grease downstream. So you need to apply the baking soda and then the MegaMicrobes to the outlet side of the grease trap. Wait at least 30 minutes after the last run of the day before treating.

If the 140° dishwasher goes into an outdoor grease trap, have the grease trap pumped or make sure the pH is close to 7 before applying MegaMicrobes. Remember, you will either treat the dishwasher line that dumps into the grease trap with baking soda and MegaMicrobes or apply the dishwasher treatment to another drain that goes into the grease trap.

Now let's look at the 180° dishwasher. If the 180° dishwasher goes through an interior trap, allow the ½ hour for the water in the grease trap to cool down. Then apply the MegaMicrobes to the clean out side of the grease trap. Baking soda will not be needed as long as a non-chlorinated, bio-degradable detergent is used.

If the dishwasher goes through an exterior grease trap, it is extremely important to check the trap. If there is more than 1-inch of solids, pump the trap. When the trap refills, check to make sure the pH is 7 or neutral. Then treat with MegaMicrobes. Pour it directly into the trap.

Remember, a NON-CHLORINATED, BIOL-DEGRADABLE detergent must be used. Many chemical suppliers will state that chlorine is not a problem, but is a chemical that will KILL the friendly bacteria used in bioremediation treatments.

SPECIAL APPLICATIONS

We are happy to help determine the best solutions for special applications.

FAST FOOD RESTAURANTS

Fast food restaurants use basically the same application as regular restaurants. Since they generally do not have a dishwasher, you will only be dealing with a 3 or 4 compartment sink and an interior or exterior grease trap.

24-HOUR RESTAURANTS

When it is impossible to provide overnight or 6-8 hours' retention time for the bacteria in the drain, choose a 4-hour period when the drains will not be used or will receive the least amount of waste water. This is usually in the very early morning hours. Mix required amounts of MegaMicrobes and water 45 minutes ahead of non-use period. When time is up, stir thoroughly and pour into drains. Do not allow mixture to stand more than one hour.

GROCERY STORES

In a grocery store you will generally find more than 1 grease trap. The deli, the bakery, and the meat department are all likely areas. First determine what fixtures are being dumped into the grease trap. Each department will have its own set of circumstances. Grocery store grease traps have a tendency to become very acidic because of chicken and animal fats. If this occurs, treat the grease traps like those in a restaurant. Because fats, barbecue and tomato sauce, pickle juice and vinegar create an acid problem in the trap, you may have to use more baking soda to keep the pH at around 7. This requires checking the pH level in the grease trap weekly during the first 3 or 4 weeks to adjust the dosage of baking soda.

BARS

Most bars without a kitchen do not have a grease trap. The dishwasher can be 140° or 180° so treat the drain that the dishwasher dumps into at least 1 hour after the dishwasher has run its cycle. Treat the dishwasher drain according to size.

Example: a 2-inch drain = 2 tablespoons of MegaMicrobes® mixed with 2 pints of warm water. If they have a 3 or 4 compartment sink for washing glasses and bar utensils, they will usually use a sanitizer in the 3rd compartment. Make sure the sanitizer is neutralized with baking soda or baking soda before applying MegaMicrobes. Indirect bar wastes such as beer taps, soda lines and ice chests can be treated by mixing a tablespoon of MegaMicrobes with a pint of water and applied every 3 days. This should be done for each drain and always at closing time or when the drains are not in use for a 6-8 hour period. All other fixtures follow normal home maintenance treatment. Do not dump unused ice in the drains being treated with MegaMicrobes because the cold temperature will inhibit bacterial action.

MULTI-STORY BUILDINGS (Hotels, Office Buildings)

If a full treatment program is to be followed in treating the drains of a building, then treatment should begin by treating the drains on the bottom floor (the basement if there is one) and then progress upward another floor every week until the purge is completed. Each drain would be treated as it would be according to the home maintenance schedule. Application time should be when drains are least likely to be used. If there is a kitchen or a bar in the building, follow the procedure for bars and kitchens when treating those areas.

SEWAGE EJECTORS AND SUMP PUMPS

Use of MegaMicrobes in sump pumps will not only reduce the buildup grease and organic material on the walls, but it will also keep the pump and floats clean. This will greatly reduce maintenance. Setting the floats to keep at least 3 feet of water in the chamber makes it easier to treat with MegaMicrobes. Figure out the capacity of the chamber in gallons. Treat accordingly. Use 2 tablespoons of MegaMicrobes for every 5 gallons of sump capacity. Mix with 2 pints of warm water. Pour into the sump. Large sumps of over 50 gallons may require weekly treatment. If sinks and other drains that are treated on a daily and weekly basis flow into the sump, sometimes the amount of MegaMicrobes used can be cut down or eliminated. If sanitizers are going into the sump, refer to the "Kitchen Section on Sanitizers" for treatment procedures.

MORTUARIES

Mortuaries have a lot of problems with plugged drains because of the formaldehyde used in the embalming process. This is usually collected in a tank and must be neutralized. Dissolve sodium bisulfate in water and pour in tank. Apply at the ratio of 1 lb. bisulfate per pint of formaldehyde in the tank. Stir, if possible. Otherwise, allow one hour for neutralization. Next, dissolve sodium bicarbonate in water and add enough to bring the pH of the tank up to 7 or neutral. MegaMicrobes® can then be applied.

URINALS

The initial treatment should be the same as for a sink drain. Do not use chemicals or tables while using MegaMicrobes. To eliminate odor from ceramic or concrete area around urinals, mix MegaMicrobes and lukewarm water (1 tablespoon to 1 pint of water). Let it stand one hour. Wet down the affected areas 15 minutes ahead of application time. Pour mixture on affected areas and do not squeeze off or mop up. When dry, sweep or vacuum. Repeat as necessary for control. MegaMicrobes eliminates the slimy, odorous accumulation. Mineral build can only be removed with acid. If acid has been used, flush the system with baking soda dissolved in water and repeat the purge with MegaMicrobes.

OUTHOUSES

Mix one cup of MegaMicrobes with 2 gallons of water to form a slurry. Distribute this slurry over the mass of waste material with a sprinkling can or a sprayer. Set the sprayer on a coarse setting. Since the bacteria must have moisture to work, waste should be kept wet by spraying periodically with clear water.

Following the initial application, thoroughly mix two tablespoons of MegaMicrobes in ½ gallon of water and distribute over the waste material once a month. Such treatment promotes the biological reduction of the waste mass and provides effective odor control. High traffic public outhouses should have an initial treatment of 1 lb. MegaMicrobes mixed with 2 gallons of water. This should be followed up with 1 cup of MegaMicrobes to a gallon of water per week. Check the facility every week for a month as you may have to adjust the dosage.

MOTOR HOMES, BOATS

Start with an empty tank. After the first use of the facility, sprinkle one tablespoon into the toilet. This should be sufficient until the tank is emptied, which should not be longer than one week. If an odor is noticed before dumping occurs, add one tablespoon more. Use 2 tablespoons if there are more than 2 or more people using the facility. Always empty the tank at least once a week.

ANIMAL WASTE

Before putting new litter in a cat box, wash and dry the litter pan. Sprinkle a light coating of dry MegaMicrobes on the bottom of the pan. Put new litter in the pan and lightly cover the entire surface area with dry MegaMicrobes. MegaMicrobes will be worked into the litter by the natural actions of the cat, and will be activated by the addition of moisture. To remove odors from concrete runs, mix MegaMicrobes and warm water. One tablespoon with one-pint water. Let stand for 45 minutes. Plan ahead so that hosing down is completed right before application time. Pour the mixture with a sprinkling can over wet affected areas. Do not squeegee. Let the floor dry naturally.

SCHOOLS

The kitchens in a school are treated the same as the kitchens in a restaurant. Neutralize the sanitizers with baking soda. Keep the pH around 7 in the grease trap and apply MegaMicrobes®. The rest of the school is treated like a commercial building. If they are on a septic system, follow the directions for septic's.

VETERINARY CLINICS

Veterinary clinics use a lot of disinfectants in animal holding pens and in their daily routines. Hair also poses a problem as it decomposes slowly. Use of disinfectants should be discontinued for a couple of days a week and wash drains with a lot of water to dilute remaining disinfectant. Then, treat the drains with MegaMicrobes.

HOSPITALS

The information in the restaurant section will also apply to the treatment of the kitchens in a hospital. Grease traps should not require pH modification – just apply the MegaMicrobes as directed. The rest of the hospital is a different story. Typically many types disinfectants and sanitizers are used. You must find out what sanitizers are being used. Neutralize them with an acid reducing substance such as baking soda (sodium bicarbonate), soda ash, or products used for raising pH levels in water. Once pH is raised, treat the drains the same as in a multi-story building, starting at the bottom floor and working up to the top.

RESIDENTIAL LAGOONS

MegaMicrobes is also effective for sewage lagoons. By digesting the organic waste, it eliminates odors and dramatically prolongs the life of the lagoon. Dosages vary greatly and are based on the area and depth of the lagoon, the amount of waste involved water temperature and amount of dissolved oxygen present. After gathering this information, please contact NeoLogic Solutions at 888-859-1188 for a treatment plan.

TREATMENT FOR BROKEN PIPES AND SEWAGE SPILLS

MegaMicrobes can be used on sewage spills from backups, broken pipes, blow back from clean-outs, or even restaurant grease on tile floors. If the waste is wet, simply sprinkle MegaMicrobes over the spill. If there is not a lot of moisture, mix MegaMicrobes and water in a bucket and pour over the area. Use plenty of MegaMicrobes since you don't know the concentration of the waste. MegaMicrobes will eat up the waste and eliminate the odor.

SEPTIC TANKS, CESSPOOLS AND ABSORPTION FIELDS



SEPTIC TANKS AND CESSPOOLS

Before using MegaMicrobes®, check the tank. The tank must be pumped if any of these conditions are present:

1. The solids on top are more than 6 inches (15.2 cm) thick
2. The mineral ask on the bottom is 12 inches (30.4 cm) or more
3. The pH of the tank is below 6.5 or above 8

Always wait 2-3 weeks after pumping before applying MegaMicrobes.

The initial treatment is 1-pound (.45 kg) mixed with 2 gallons (7.5 liters) of water for every 500 gallons (1892.7 liters) tank capacity. It is always best to let the mixture stand for up to 45 minutes. Don't let it stand for more than one hour or the bacteria will start eating each other. Stir up the mixture and pour directly in to the tank, cesspool or drains going into the tank. For best results on tanks large enough to require more than two pounds, divide the amount into two or three parts. Let a day or two elapse between applications. If the tank or cesspool has backed up the sanitary line into the house, determine if the line has a blockage or if the tank is full of solids. If the tank is full of solids, have it pumped. If the line is plugged, open it. Many people mistake these two problems as a failing system. These systems depend upon bacteria. If the bacteria are killed with chemicals, the action STOPS and the trouble STARTS. Use only non-chlorinated, bio-degradable cleansers and washing compounds. Conservative and occasional use of bowl cleaners and bleaches is acceptable. Do not use automatic bowl cleaners that dispense with each flush.

ABSORPTION FIELDS

Absorption fields often become saturated with waste that is not breaking down efficiently, leading to backups, foul odors, and local pollution. MegaMicrobes can effectively restore fields and drastically reduce maintenance expense. If there is a distribution box, use 1 pound (.45 kg) with 2 gallons (7.5 liters) of water for every 50 feet (15.24 meters) of lateral line. Example: for 150 feet (45.72 meters) of lateral line, use 3 pounds (1.36 kilograms) of MegaMicrobes mixed in 6 gallons (22.71 liters) of water. Let mixture stand for 40 minutes, then stir and pour into the distribution box. If there is no distribution box, get MegaMicrobes into the field by applying to the vent pipes or clean outs. It is best to apply it between the tank outlet and the field. Repeat the above dosage at 3 week intervals until 3 to 6 cans have been used.

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