

# bio-clean®

by: Fresh Water Systems



## METRIC CONVERSION

1 Tablespoon = 15ml	1 Pint = 1/2 Litre	1 Pound = 454 g
1/4 Cup = 57 ml	1 Quart = 1 Litre	1 Cup of Bio-Clean = 180 Grams = 16 Tbsp.
1/3 Cup = 76 ml	1/2 Gallon = 2 Litres	1 Tub of Bio-Clean = 80 Tbsp. (Approx.)
1/2 Cup = 114 ml	1 Gallon = 4 Litres	1 Tub of Bio-Clean = 5 Cups

“Mix Bio-Clean with warm water before pouring it down the drain”

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## bio-clean® Instructions for use

Make all treatments after CLOSING (just before leaving premises). If a blockage occurs after you have started using Bio-Clean, it is a sign that Bio-Clean is detaching the waste from the pipes. Clear the blockage with a plunger or a snake and continue treatment.

**“Mix Bio-Clean with warm water before pouring it down the drain”**

**SINK DRAINS:** Apply DAILY after closing (just before leaving premises). Apply 1 Tablespoon of Bio-Clean mixed in 1 Pint of warm water to each sink compartment that does not empty into a grease trap. For sinks that do not empty into Grease trap.

**GARBAGE DISPOSAL:** Apply 2 Tablespoons of Bio-Clean mixed in 2 pints of warm water, DAILY! First, turn on garbage disposal, then pour in mixture and turn off quickly.

**POTATO PEELER:** For each day the Potato Peeler is used, apply 2 Tablespoons of Bio-Clean mixed in 1 Quart of warm water or, for larger volume operations, use the same amount as the garbage disposal.

**STEAM KETTLE FLOOR DRAIN:** Apply 3 Tablespoons of Bio-Clean mixed in 1/2 a gallon of warm water to each drain, DAILY!

**SELF CLEANING HOOD:** Apply 2 Tablespoons of Bio-Clean mixed in 1 Quart of warm water to drain line in each corner of the hood, DAILY!

**GARBAGE CAN WASHER:** Flush the drain with clean water for 10 seconds first before applying Bio-Clean. Apply 2 Tablespoons of Bio-Clean mixed in 1 Quart of warm water, DAILY!

**FLOOR DRAINS:** Flush out any chemical residue for 10 seconds with clear water FIRST before applying Bio-Clean. For each floor drain, mix 1 Tablespoon of Bio-Clean with 1 Pint of warm water per inch of pipe diameter. (Example: 4" floor drain; 4 Tablespoons mixed with 4 Pints water) Pour this mixture down each floor drain. Repeat for 5 consecutive days. Thereafter, treat all heavily used drains DAILY and all others ONCE PER WEEK. If it is impossible to treat the heavily used drains daily after the 5 day application, apply 8 Tablespoons of Bio-Clean mixed in 1 gallon of warm water once per week, preferably at the beginning of a non-use day.

**MOP SINKS:** Flush out any chemical residue for 10 seconds with clear water FIRST before applying Bio-Clean. Apply 1 Tablespoon of Bio-Clean mixed in 1 Quart of warm water, DAILY!

**BEER & POST MIX OVERFLOW DRAIN:** Apply 1 Tablespoon of Bio-Clean mixed in 1 Pint of warm water for 5 consecutive days then repeat ONCE PER WEEK.

**BAR SINKS:** Apply 1 Tablespoon of Bio-Clean mixed in 1 Pint of warm water for 5 consecutive days then repeat ONCE PER WEEK.

**GLASS WASHER:** Apply 2 Tablespoon of Bio-Clean mixed in 1 Quart of warm water for 5 consecutive days then repeat ONCE PER WEEK.

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**GREASE TRAPS:** To be done ONE time ONLY or can be redone if program has to be started again.

**Step I: (A)** Remove the scum and floating solids off the top of the Grease Trap. **(B)** Mix 1lb of Bio-Clean in 3 gallons of warm water and pour it into the trap. If the Grease Trap is more than 50 gallons but no more than 100 gallons, apply 2lbs of Bio-Clean mixed in 5 gallons of warm water. For Grease Traps over 100, but under 1000 gallons, use 3lbs of Bio-Clean mixed in 6 gallons of warm water.

**Step II: Sinks that empty into a Grease Trap** - Apply Daily after closing (just before leaving the premises).

**(A)** Remove the scum and floating solids off the top of the Grease Trap. **(B)** Mix 1/2 a cup of Bio-Clean in 1 gallon of warm water and pour it down the sink drain. For heavily used Grease Traps, apply 1-2 cups of Bio-Clean mixed in 1-2 gallons of warm water.

**DISHWASHERS: Special Notes:** **(A)** Any department NOT USING Sanitizers, Chlorinated Products, Caustics, Germicidals, or Acids will not have to do “A” in Step II. **(B)** All departments with 2 shifts will apply their daily application at the beginning of the down shift. **(C)** “24 hour operation”. When it is impossible to provide overnight or 6-8 hours of retention time for the bacteria in the drain, choose a 4 hour period when the drain will not be used, Mix the required amounts of Bio-Clean and water 45 MINUTES AHEAD of non-use period. When 45 minutes is up, stir thoroughly and pour into drains. Do not allow mixture to set any longer than ONE HOUR!

**- Hi Temp Dishwashers - (That have their own Grease Traps)**

**(A)** Dishwashers with Grease Traps - “5gals. - 20gals.” - Small traps are very ineffective in trapping grease from dishwashers because the hot water keeps the grease in liquid form and it solidifies downstream after the trap, when it has cooled. Do not treat the trap. Apply 1lb of Bio-Clean mixed in 2 gallons of warm water to clean out the discharge side of the grease trap or to a clean out line in the line. Do this for 5 consecutive days, then repeat this ONCE per week. **(B)** Dishwashers with large Grease Traps - Do not use a “chlorinated detergent”. Use a bio-degradable, non-chlorinated detergent. Sanitizing is accomplished by 180 degree water. Chlorine in the detergent creates a condition in the trap which kills bacteria. To treat the trap, refer to the section on Grease traps.

**- Low Temp Dishwashers** - All of these use a chemical sanitizer. The larger the grease trap and the smaller the volume of dishwasher, the greater the success will be in keeping the trap clean with Bio-Clean. Two things will help, use a bio-degradable, non-chlorinated dishwashing compound. Wait a minimum of 30 minutes after the dishwasher has been shut down for the day before adding the Bio-Clean. This allows the chlorine from the sanitizer to dissipate.

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### **LABORATORY SINKS (Hospitals + Pharmacies)**

NOTE: Flush all drains with water for 10-15 seconds to remove any residue of Formaldehyde, Germicidals, or Sanitizers before applying Bio-Clean. If a Lab does a high volume of work, it may be necessary to double the amount of daily application. Certain Labs can be treated only after use if not used daily.

### **Urology - Hematology - Histology - Bacteriology - Disposals - Autoclave Drains - Morgue Sinks - etc**

Apply 2 Tablespoons of Bio-Clean mixed in 1 Quart of warm water for 5 straight days. Then apply 1 Tablespoon of Bio-Clean mixed in 1 Pint of warm water every day after the initial 5 day treatment. **Morgue Floor Drains** should use 4 Tablespoons of Bio-Clean mixed with 1/2 gallon of warm water for the 5 day treatment cycle, then use 1 Tablespoon of Bio-Clean mixed with 1 Pint of warm water every day after the initial 5 days.

### **WASHROOMS**

NOTE: Flush all drains and sinks with water for 10-15 seconds to remove any residue of Germicidals, or Sanitizers before applying Bio-Clean. If a Washroom does a high volume of work, it may be necessary to double the amount of daily application. Certain Washrooms can be treated only after use if not used daily. Turn off automatic flush if urinals or sinks have them.

### **Urinals - Shower Drains - Toilets - Bathtubs - Hand Sinks - Water Holding Tanks - Restroom Drains**

Apply 2 Tablespoons of Bio-Clean mixed in 1 Quart of warm water for 5 straight days. Then apply 2 Tablespoons of Bio-Clean mixed in 1 Quart of warm water once a week after the initial 5 day treatment.

### **SEPTIC TANKS & CESSPOOLS**

Apply one initial treatment of Bio-Clean, 1lb mixed with 2 gallons of warm water for each 500 gallons, thru first 2000 gallons tank size. Over 2000 gallons, use 1lb for each additional 1000 gallons and divide the amount into 2 or 3 parts and let a day or two elapse between applications. **Mix the Bio-Clean with warm water and allow to sit for 45 minutes before application, No Longer than ONE HOUR.** After initial treatment of tank, re-application will not be necessary, Provided the Building Drains are Given Periodic Maintenance Treatments. Otherwise, use initial treatment TWICE per year.

**NOTE:** If there is crust, the tank should be pumped first. If the tank has build-up, but no crust, the initial amount of Bio-Clean should be doubled for faster results. **Cesspools** require twice the Bio-Clean maintenance amount.

### **OUTHOUSES**

Outhouses with holding tanks and Cesspools should be treated like a Septic Tank according to their size. Since the micro-organisms must have moisture to work, waste should be kept wet by spraying periodically with clear water. Check the PH of the water supply to see if it is 7-8. If it isn't, adjust the PH to 7 by adding Baking Soda dissolved in hot water before mixing the water with Bio-Clean or applying to the water tank to moisten the waste. Following initial application, thoroughly mix 1/2lb of Bio-Clean in 1 gallon of warm water and distribute over waste material once a month or if usage is high (Parks), treatment should be made once per week or bi-weekly if usage is medium.



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### **RESIDENTIAL LAGOONS**

Bio-Clean 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, contact your Bio-Clean representative for a treatment plan.

### **CLOGGED PIPES**

NOTE: If the pipe is already clogged, run a snake to get it flowing first and then begin the program. Let the mixture stand for 45-60 minutes before applying but NO LONGER THAN SIXTY MINUTES.

Flush the floor drain with clean water before applying the Bio-Clean. After the 5 day program (see chart below), apply the daily application once or twice per week to clean out the floor drain. It will take approximately 1 to 4 weeks to clean the pipes completely. If the pipe length is longer than shown in the following instructions, add up the extra length, and, according to the instructions, add this amount through a clean pipe in or at the beginning of the extra length. If this is not possible, double or triple the amount of water used to flush the bacteria out into the pipe.

<b><u>Diameter of Pipe</u></b>	<b><u>Pipe Length</u></b>	<b><u>Apply the following for 5 consecutive days</u></b>
4"	25' to 100'	6 tbsp. of Bio-Clean in 1/2 gallon of warm water
	101' to 300'	1lb. of Bio-Clean in 2 gallons of warm water
6"	25' to 100'	10 tbsp. of Bio-Clean in 1 gallon of warm water
	101' to 300'	1.5lbs. of Bio-Clean in 3 gallons of warm water
8"	25' to 100'	1/2lbs. of Bio-Clean in 1 gallon of warm water
	101' to 300'	2lbs. of Bio-Clean in 5 gallons of warm water
10"	25' to 100'	1lb. of Bio-Clean in 2 gallons of warm water
	101' to 300'	3lbs. of Bio-Clean in 8 gallons of warm water

### **TREATMENT FOR BROKEN PIPES & SEWAGE SPILLS**

Bio-Clean is perfect for **Sewage Spills** from backups, **Broken Pipes**, **Blow Back** from cleanouts, or **Restaurant Grease** on tile floors. If the waste is wet, just sprinkle Bio-Clean on the spill. If it is dry, apply generously to a mop bucket and use the mop as regular with no additional cleaners or chemicals.

### **ROOF VENTS**

To determine amount, divide the number of floors by 4. This number times, the vent pipe diameter in inches, equals the number of tablespoons for each of the 5 day initial treatments. Use one Quart of water per tablespoon unless problem is in main sewer away from building, then double or triple the water. MIX DOSAGE WITH WATER 1 HOUR AHEAD OF APPLICATION TIME. Start on Bottom Floor and work upward another floor every 7 days.



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