

Looking After Your Caravan, Camping or Marine Toilet

No matter which brand or style of toilet you have in your caravan, camper or boat you are dealing with a small wastewater treatment system.

These systems operate like the old single tank septic system and are susceptible to the same issues. A single tank portable toilet works by holding the waste in an enclosed tank while natural bacteria in our waste process the contents of the tank until we empty the cartridge into a dump point or home septic system. Often there isn't sufficient quality or quantity of natural bacteria to do the job effectively so, Septic Science supplements with a dose of high performance good bacteria. Your portable toilet is a living eco-system and relies on bacteria to work effectively. You should not be using anti-bacterial cleaners in or around your portable toilet.

USING YOUR TOILET

RV & Marine Wastewater Treatment works better if you use your toilet for Number 1's and Number 2's. It turns everything (poo's, pee's and paper) into an amber coloured liquid and gives off CO₂ into the air (as the bacteria breathe just like us!) Once the freeze-dried bacteria is introduced to water it will activate and start to multiply.

Within 15 minutes it will start producing the enzymes that break down the waste. The bacteria will digest the solids leaving a byproduct of a amber, briny liquid which can be safely disposed of into dump points or septic systems. The solids in your waste is the perfect food source for the bacteria keeping them alive and working longer, however, if you choose to just use your toilet for urine only the treatment process will be slowed, and we suggest that you only use a 2 ply toilet paper.

Do not use Baby or Toilet Wipes, but toilet paper gels are OK.

WHAT UPSETS THE BALANCE

The greatest cause of problems with your portable toilet are cleaning products, strong medications and climate.

CLEANING PRODUCTS

Unfortunately, what we call cleaning products, your wastewater system may class as toxic. Some toxins kill us, while others will just make us sick and the same will happen to the bacteria in your wastewater system. **You must use non-chemical cleaning products like Septic Science Bio Spray or RV Marine Wastewater Cleaner/Conditioner (No Flush Spray).** Any cleaning product used that kills bacteria is harmful to your system. **DO NOT USE any of the harsher cleaning products!** This also applies to disinfectants, eucalyptus or tea tree oils, surface sprays, wipes and any chlorine or bleach based cleaners.

MEDICATIONS

Natural antibacterial products like Turmeric or Garlic or heavy medications and chemotherapy may kill the bacteria prematurely resulting in a little odour which can be rectified with a double dosing in extreme circumstances or we would recommend emptying your toilet cartridge more frequently.

CLIMATE

During temperature extremes (heat and cold), bacterial activity slows to the point where an extra dose may be required.

WHEN SWITCHING TO A BACTERIA BASED PRODUCT

If you have previously used a chemical based treatment product you will need to thoroughly flush the cartridge with warm, soapy water to remove any trace of the old chemicals. **Allow cartridge to dry in sunlight. Recommended every 3 or 4 empties too!**

See over for our products that help keep the balance in your RV & Marine Wastewater Systems.

HOW TO USE RV & MARINE WASTEWATER TREATMENT

Caravan Cassettes and Port-a-Potties Start the treatment cycle with a 20ml scoop of RV & Marine Wastewater Treatment straight into the bowl and flush with 1 litre of fresh water. This dose should last the 3-5 days it takes to fill the cartridge. Once your cartridge is full empty into a dump point or into your home toilet. Rinse the cartridge out with fresh water and Septic Science BioSpray or RV Marine Wastewater Cleaner/Conditioner. Both are excellent products to clean the bowl and around the toilet as it introduces more good bacteria into the system. Should a slight odour occur due to climatic changes or medication use just add an extra half scoop to get you through until you empty your cartridge or simply spray a little RV Marine Wastewater Cleaner/Conditioner (No Flush Spray).

Large Blackwater Holding Tank

Larger holding tanks (normally available in motorhomes) can be started the same way as above, however depending on how often they are emptied they may need a top-up scoop every 3-4 days after starting.

Grey Water Holding Tanks

Start with a 20ml scoop of RV & Marine Wastewater Treatment and 1 litre of water flushed down one of your drainlines. Depending on how quickly your tank fills, and how often you have the opportunity to empty your tank, another dose may be required to maintain an odour free environment in your van. Even if you're not holding greywater, fill your greywater tank for a period of 2-3 days with a scoop of RV & Marine Wastewater Treatment to keep your volume sensors free of sludge buildup every 4-6 weeks.

Composting Portable Toilets

Composting units are becoming popular, particularly in off-road campers where access to Dump Points is difficult. These units require a good bacteria to implement the composting process, so our **RV & Marine Wastewater Treatment** products are the ideal compost accelerators. Just a scoop mixed into the compost media and occasional spray of our Cleaner Conditioner No Flush Spray will keep the process moving.

- **Caravans** – Add a 20gm scoop of RV & Marine Wastewater Treatment to your compost medium when starting a new bucket – **KEEP MEDIUM MOIST (not wet).** Use **Spray RV & Marine Cleaner Conditioner No Flush Spray** around the Urine Collection Bowl to control odour and remove uric acid crystals.

- **Home** - Add a 20gm scoop once a month or if an odour occurs. **KEEP MEDIUM MOIST (not wet).**

EMPTYING YOUR TOILET CARTRIDGE/HOLDING TANK - SEPTIC SAFE

Australian laws prohibit the dumping of human waste in anything other than approved dump sites, septic systems or wastewater treatment plants. Most chemical based treatment products on the market kill the natural bacteria and are harmful to the operation of septic systems. RV & Marine Wastewater Treatment allows you to empty your toilet cartridge directly into home or commercial septic systems without harming the bacterial balance as it is the same product that we use to rejuvenate tired or underperforming home septic systems!



SEPTIC SCIENCE

Good Bacteria At Work

www.septicscience.com.au
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WHAT TO USE IN YOUR PORTABLE TOILET

Wastewater Systems use the bacteria that comes from our own bodies to form a fast acting eco-system in your holding tank. This provides the ideal environment for the breakdown of black and grey wastewater. Mother Nature uses this same process every day in and around us only, in most cases, it is so slow that we do not notice it.

SEPTIC SCIENCE **RV & Marine Wastewater Treatment**

Our wastewater products are 100% chemical free and containing only good bacteria freeze dried onto a bran powder. Containing 1 billion bacteria per gram, the specifically selected blend of bacteria produce multiple enzymes and work quickly to digest the organic matter, out-competing the nasty odour producing species normally present, thereby eliminating the cause of the odours before they have a chance to take hold. If kept dry, the product will last indefinitely.

Emptying holding tanks is easier when you have billions of helpers working day and night to make sure there is no residual solids and that the contents remains liquefied. With no harsh chemicals your toilet waste is much safer to dispose of and will cause no harm to the environment or you!

This product also controls the odour and sludge in greywater holding tanks.

Liquid by-product can be safely disposed of in a standard septic system! Simply flush!

SOMETHING TO THINK ABOUT

Wastewater is not what you think of when you're considering adventure in the great outdoors, but it's what we SHOULD be taking very seriously. Our ability to caravan freely around Australia depends not only on purchasing the caravan and the vehicle to tow it but also our impact on the environment as we travel around.

There are now over 810,000 registered caravans and campers in Australia contributing to overworked and underfunded municipal wastewater management plants. The amount of chemical that we are using to treat our portable waste is contributing significantly to the problems. At this rate, as an industry, we aren't exactly sustainable. We have to make a big push towards a "Chemical Free" industry before it's too late.

SEPTIC SCIENCE **RV & Marine Wastewater Cleaner/Conditioner**

This is a bacterial based cleaner/conditioner specifically formulated for portable, caravan and composting toilets – like our **Bio Spray all-purpose surface cleaner** but more targeted to reducing toilet odours and still with no harsh chemicals. It has a stronger deodorising fragrance that makes the toilet fresher. There is no need to use a "flush" of water if you have only urinated (and perhaps a little paper). Just let the urine and paper go through to the waste holding tank, close the trap to the waste tank, then spray the bowl with **RV & Marine Wastewater Cleaner/Conditioner**. **The spray will clean the bowl and the bacteria will digest the film of urine without any water usage.** This will save on your precious water when bush camping and keep the volume of waste in your toilet cannister lower for longer, leading to ultimately, less cannister empties. It will also help condition your caravan toilet seals.

You should still use your **Septic Science Bio Spray Cleaner** to do your normal daily clean of the toilet bowl, en-suite and kitchen in your caravan. Liquid bacterial products have a 2 year shelf life and should be shaken before use.

SEPTIC SCIENCE
Good Bacteria At Work

www.septicscience.com.au
1300 991 948

RV & MARINE WASTEWATER TREATMENT

Septic Safe Contains FAST acting good bacteria!



Available in:
250gm 3 Months
500gm 6 Months
1kg 12 Months

**Don't just mask the smell...
Treat the REASON it smells!**

Septic Safe



The perfect companion cleaner/conditioner to our RV & Marine Wastewater Treatment

Cleans the bowl and conditions the seals all with a pleasant deodoriser, while adding to the good, hard-working bacteria treating your waste in the cartridge or holding tank. Perfect for use in composting toilets too!

**NO Harsh Chemicals!
Septic Safe - Light Fragrance!**