

Wastewater Holding Tank Sewage Treatment

1. **Deodorises** waste systems efficiently in the presence of air through All-SAFE Chemistry stench removal while leaving a cherry fragrance.
2. **Digests organic wastes** fast, safe, and economically at 1000 : 1 ratio.
3. **Digests all cellulose** in holding tanks, pits, lines and traps.
4. **Dissolves Struvite** deposits in lines, tanks, and septic fields.
5. **Cleans and Lubricates** lines, sensors, gauges, traps, valves, and tanks.
6. **Treatment ratio:** 1,000:1 (90 ml/90 liters or 3 oz./20gal.).
7. **All-SAFE** enzymic action at extreme temperatures (-20°C > +80°C).



BioTherm Eliminator[®] will rapidly digest all organic solids, cellulose and struvite in waste water treatment facilities, liquid septic tanks and manure pits, including piping.
BioTherm Eliminator is All-SAFE in practice, removing odors in the presence of air.

BioTherm has no adverse effect on humans, animals, or environments, due to its safe and digestive biochemistry which is Non-Toxic and Biodegradable.

Ecotoxicity Classification: “Absolutely Non-Toxic to Wastewater Treatment Plant bacteria”.

BioTherm is recommended for RV's, Septic Tanks, Boats/Ships, Airplanes, Trains, and Farms with liquid manure pits, and Waste water treatment plants.

BioTherm/wastewater mixture must be agitated such as in a moving vehicle or perhaps pump-circulated in the holding tank to promote the swift biodegradation of wastes.

BioTherm's usage by Trans-Canada Passenger Railway shows a remarkable cleanup of the sewage tanks on just the first round trip from Vancouver - Montreal in 2008 (see pictures attached).

Sewage contains aerobic bacteria which need oxygen, and anaerobic bacteria which thrive in an airless environment. Anaerobic bacteria in sewage produce the stinking gasses while the aerobic bacteria break sewage down, but do not generate odour. In the presence of BioTherm at 1000 : 1 and a sufficient supply of air to the waste tank, the aerobic bacteria thrive and overpower the anaerobic bacteria, assuring that the waste holding tank remains odour controlled while biodegrading the waste product at the same time. (Please note that many wastewater holding tanks suffer from an undersized fresh air vent line.)

Anaerobic bacteria in sewage produce a variety of sulfur monoxides and dioxides (foul-smelling gasses); methane, which has no odour but is flammable; and carbon dioxide which also has no odours but creates the environment in which the aerobic bacteria cannot live, and causes the anaerobic bacteria to thrive. Carbon dioxide is motionless and ambient; it lies like a blanket on top of any pool of sewage, whether inside a holding tank or a sewage pond. So, unless there is a sufficient flow of fresh air through the tank allowing it to disperse, carbon dioxide will suffocate the aerobic bacteria and create the perfect environment for the anaerobic bacteria to take over. The system then becomes septic, resulting in a filthy environment.

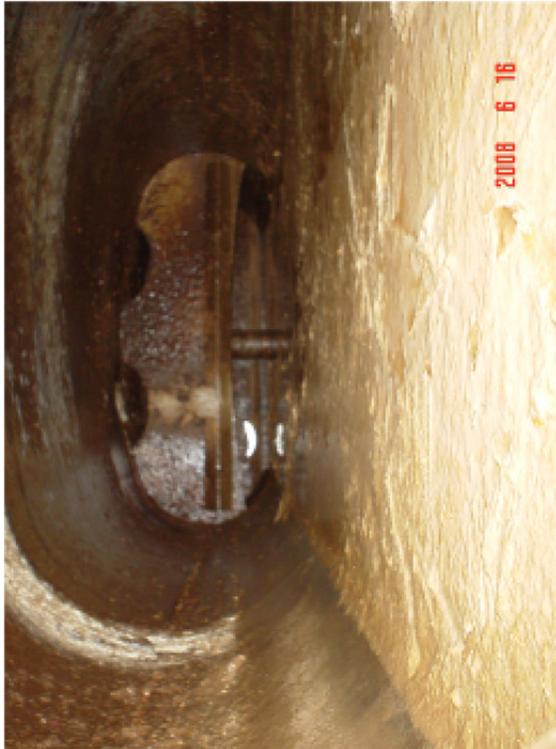
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After treatment with BioTherm Eliminator





Before treatment with BioTherm Eliminator



Pictures taken after tanks are emptied, both before (left Photos) and after treatment with BioTherm Eliminator (right photos). (90 gal. Tank)
 Note the elimination of sewage sludge and struvite in the top 2 photos, and the removal of sewage and struvite sludge in the bottom 2 photos.