



How it Works

MTS Environmental's Bio-Desolve is a revolutionary, all natural wastewater and biosolids treatment product that improves the overall performance of residential, municipal and industrial wastewater treatment systems.

Bio-Desolve's unique combination of activated carbon, humic acids and naturally occurring beneficial microbial families achieves a superior wastewater treatment in a number of different ways.

1. The activated carbon in Bio-Desolve helps tie up harmful toxins and chemicals in the wastewater stream that hinder the productivity of the millions of beneficial bacteria in wastewater. By tying up those toxins and chemicals, the bacteria are able to function at their optimal rates and can more effectively process:
 - organic solids, nutrients, oils and fats in the wastewater stream
 - biosolids accumulations at the bottom of lagoons
 - biosolids in aerobic, anaerobic digesters and holding tanks at wastewater treatment plants
2. The humic acids in Bio-Desolve act as a food source to stimulate the bacteria that have been negatively affected by the harmful toxins and chemicals present in the wastewater stream. The humic acids "kick start" the bacteria to get them functioning at their optimal rates.

Humic acids can also be applied to assist in the removal of trace amounts of grease, oil, liquid organics and suspended matter in wastewater. Humic acids also can be used for removing toxic metals and their ions from wastewater. The highest effect can be observed in the removal of lead (Pb), mercury (Hg), cadmium (Cd), copper (Cu), zinc (Zn), nickel (Ni) and chromium (Cr). Humic acids also remove aluminum from wastewater successfully.

3. The specially selected, naturally occurring microbial families present in Bio-Desolve target biosolids, oils and fats, phosphates and nitrates. In the event that the existing bacteria in the wastewater system cannot breakdown the high concentrations of biosolids, oils and fats, phosphates and nitrates in the wastewater stream, the microbes in Bio-Desolve will aggressively target and consume them, therefore, improving the overall quality of the wastewater and biosolid treatments.

Bio-Desolve has been proven effective in a number of wastewater treatment facilities and it is MTS Environmental's hope that it becomes the popular means of treatment in the future. MTS Environmental Inc. is committed to improving the world we live in by providing all natural, environmentally friendly treatments to residential, municipal and industrial wastewater treatment systems.