

POLLUTANT DESTRUCTION

Advanced Oxidation Process

Meet your wastewater disposal targets with a highly effective Advanced Oxidation Process. The proprietary chemical mixture of **BIPERLIMINATE™** easily destroys pharmaceutical wastewaters, toxins, chemical residues, and a wide range of pollutants, converting them into harmless carbon dioxide, vinegar, and water.

Biperliminate™ oxidizes pharmaceuticals and aromatic chemicals that are too expensive, difficult and slow to remediate with biology and reduces the COD and BOD of wastewaters. Biperliminate™ widely targets all drug compounds, endocrine disruptors, difficult drugs such as Triazole, Estrogen, bis-Phenol A (BPA), nicotine, illegal drugs, as well as pesticides and agricultural chemicals.

Biperliminate™ has an operating cost 5-20 times lower than other AOPs and other environmentally unsound methods, such as incineration. UV+peroxide or Ozone are not as safe or easy to handle. Neither are they as selective to polluting organic compounds as Biperliminate™. Our oxidant leaves behind much of the background organics, going after the large polluting molecules it prefers to “eat”. With selectivity, Biperliminate™ can treat more volume with less oxidant, making it the cheapest AOP known.

There’s no need to haul away wastes for disposal in another area with an onsite wastewater treatment system. The Biperliminate™ system’s footprint is scalable, depending on the volume of wastewater. A system treating wastewater of for example 10–100 m3/day would have a footprint including a chemical storage tank of 1.5–5 square meters.

Start with a consultation on your wastewater composition and a pilot run today.



BIPERLIMINATE™



bipurewater.com

BIPERLIMINATE™



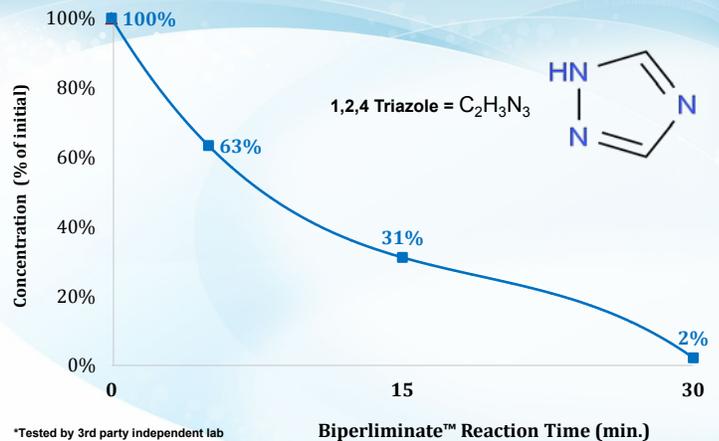
BEFORE:
Methylene Blue dye
25 parts per million
(25 mg/L)

AFTER
Biperliminate™:
>99% destruction
in 10 minutes

- Lowest cost AOP known
- Safer than ozone
- Estrogen, bis-Phenol A (BPA), nicotine, illegal drugs, as well as pesticides are easily destroyed
- Custom onsite systems are optimized with system and chemistry adjustments (process development analysis)
- Selectivity for target toxins against background TOCs and organics such as mud
- Using simple hardware, BIPERLIMINATE™ easily destroys refractory compounds at a much lower cost than competing methods, including GAC

U.S. Water Company testing Treating 12 ppm 1,2,4 Triazole

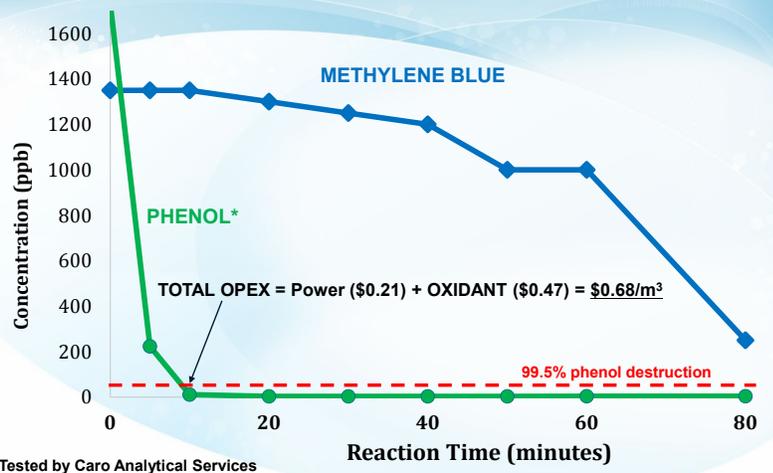
Very refractory heteroatom aromatic (in antifungal drugs) easily destroyed (>98%)



Methylene Blue in Textile Industry

Methylene Blue is a more difficult compound than pharmaceuticals

Biperliminate™ selectively and easily destroys >99.7% of phenol
Selectivity (reaction rate ratio) >50:1 for Phenol vs MB



See our CASE STUDIES:
<http://bipurewater.com/advanced-oxidation-process/>



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