



Wastewater

# NEUTRAOX™ FE

**NeutraOx™ FE** developed by HydroSolutions, are nitrifying, bacteria-friendly PAA-removal biochemicals. These biochemicals are sulfur-/sulfate-free organic compounds which have been specially formulated to safely and effectively remove oxydizers such as peracetic acid and peroxyacetic acid (PAA) from industrial waste streams.

## Helps With:

- Wastewater Nitrification
- Reduction of Mixed Liquor Foaming
- Detoxification of Wastewater into the Biological Treatment System
- Anaerobic Treatment Process
- Collection of Free Radicals Produced by PAA
- Reduction of Free Induced Radical Nitrification Inhibition
- Whole Effluent Toxicity Testing (WET-Tests) Results
- Anaerobic/Aerobic and Nitrifying Bacteria Growth

## How It Works:

**NeutraOx™ FE** improves wastewater performance by reducing the toxicity of oxydizers such as PAA and the subsequent oxidative stress placed on the wastewater microorganisms. In addition, **NeutraOx™ FE** will reduce mixed liquor foaming while improving the aerobic treatment process when it has been negatively impacted from the use of PAA in a food processing waste stream. This material is far superior to sodium meta bi-sulfite and outperforms sodium thiosulfate. It also increases the capacity to remove chlorine, bromine, chloramines, and nitrosamines.

The amended iron compound doubles as a nutrient for bacteria and as a sacrificial element to diminish the negative impact that the peroxyacetic acid has on essential trace metals (PAA oxidizes metals and thus brings about their precipitation that renders them useless as a micronutrient to bacteria.

In the presence of high TSS or organic material, approximately 1.5:1 feed of **NeutraOx™**: to PAA is sufficient. In the presence of low TSS or organic material, approximately 2:1 feedrate of **NeutraOx™**: to PAA is sufficient.

## Benefits:

- Scavenges Free Radicals (Free Radicals Are Inhibitory to Heterotrophic and Nitrifying Bacteria)
- Reduction of Free Induced Radical Nitrification Inhibition
- Improved Results of Whole Effluent Toxicity Testing
- Improved Reducing Power due to Iron Catalyst
- Stimulates Growth of Wastewater Bacteria
- Antioxidant has PAA Reducing Capabilities
- Anaerobic/Aerobic Bacterial Stimulation

**HYDRO SOLUTIONS, INC** exists to provide solutions to customers in the air and water treatment industries. We are dedicated to offering customized plans, products, and services to ensure our customers meet their air and water discharge permits while operating their systems at optimum efficiency.

**For more information regarding improved WET-Tests results, Anaerobic and Aerobic PAA Toxicity solutions, and other wastewater treatment solutions, visit [hydrosolutions.com](http://hydrosolutions.com) or contact our wastewater treatment specialists at 502-899-7107.**

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**HYDRO**  
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P.O. Box 221016 Louisville, KY 40252  
888-734-9376