



## THE „NEW NORMAL“ FOR THE CHEMICAL INDUSTRY

### Handling various contaminants

Wastewater deriving from chemical processes can have a wide variety of contaminants. As a result the Chemical Industry needs sophisticated, tailor-made but yet highly flexible wastewater treatment solutions.

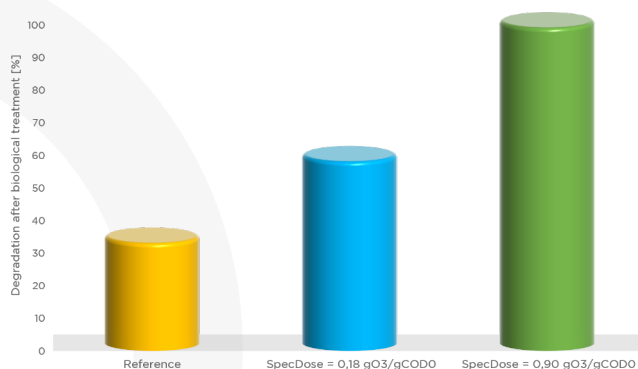
Typical conventional treatment options often entail high capital deployment per unit base, high operating cost and associated safety concerns.

#### IMPORTANT DESIGN FACTORS

- ✓ Total Lifecycle Cost
- ✓ Process safety
- ✓ Energy efficient
- ✓ Sustainable
- ✓ Easy to operate
- ✓ Reliable

### a3op - a unique technology platform

The focus of up2e!'s acoustically activated AOP process (a3op) lays on high operational safety and availability, advantageous operating cost and low capital investment. Superior ozone dissolution, accomplished through our Roturi causes powerful decomposition of contaminants making them biodegradable.



### a3op - why it is the better solution?

The operation at ambient temperature and pressure eliminates safety concerns relating to high temperature and pressure operations.

The a3op technology platform is modular by design and flexible to accommodate for adjustments to specific waste stream profiles.

Amongst others, a3op treated wastewater yields several important benefits when it comes to onsite biological treatment plants. Toxicity issues and lack of oxygen is eliminated, ensuring better performance of onsite bio-treatment thus reducing personnel demand and improving performance.

#### KEY ADVANTAGES:

- ✓ Safe process (ambient pressure & temperature)
- ✓ Low maintenance & personnel demand
- ✓ Easy to operate & control
- ✓ Economically advantageous