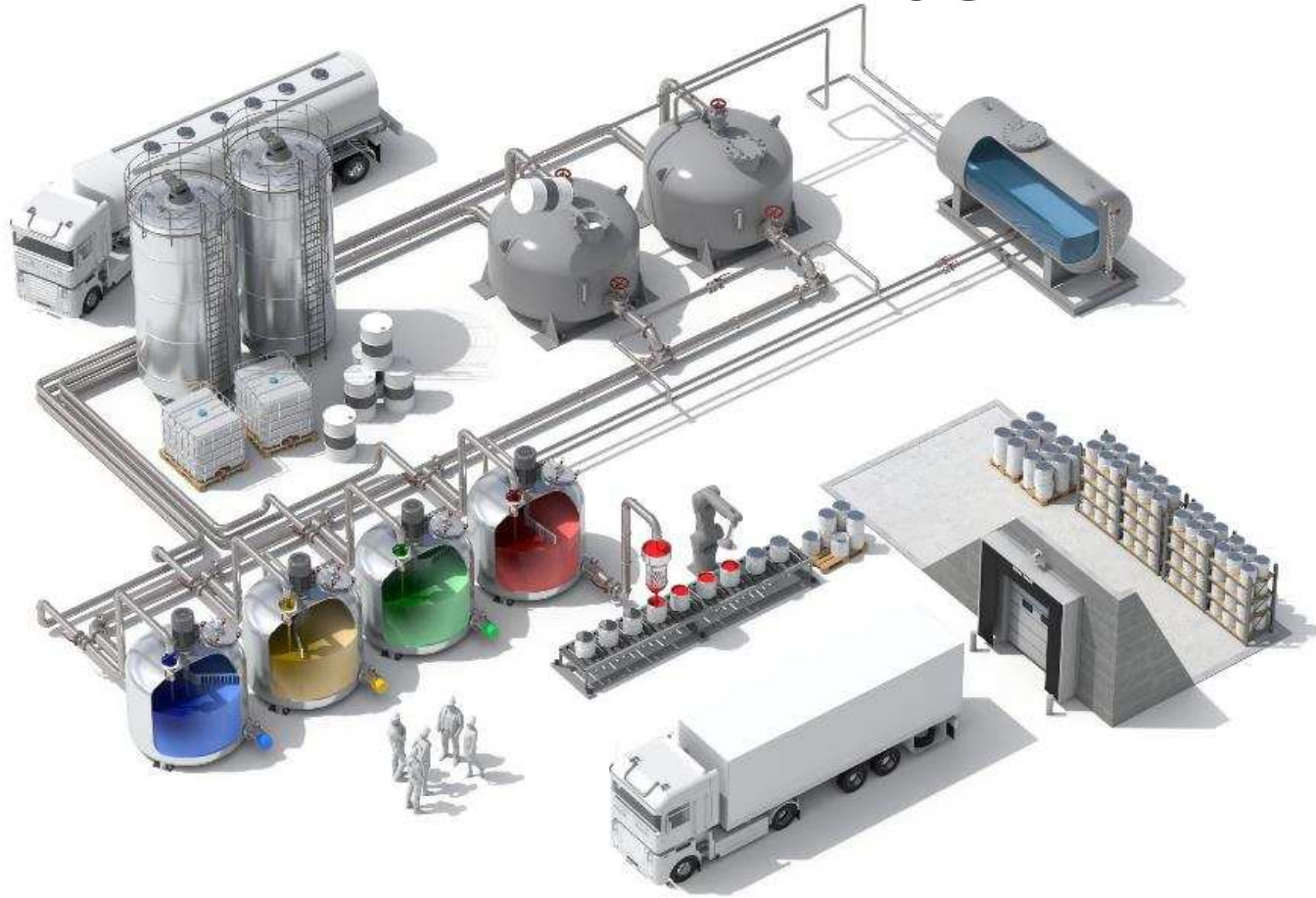


New LANXESS Plant Hygiene Solution

Discover Preventol® OX

Monika Lamoratta and Markus Busch

From awareness to action: Hygiene as a daily task



Awareness

You and your team need to consistently monitor spoilage and maintain proper hygiene practices.

Consistency

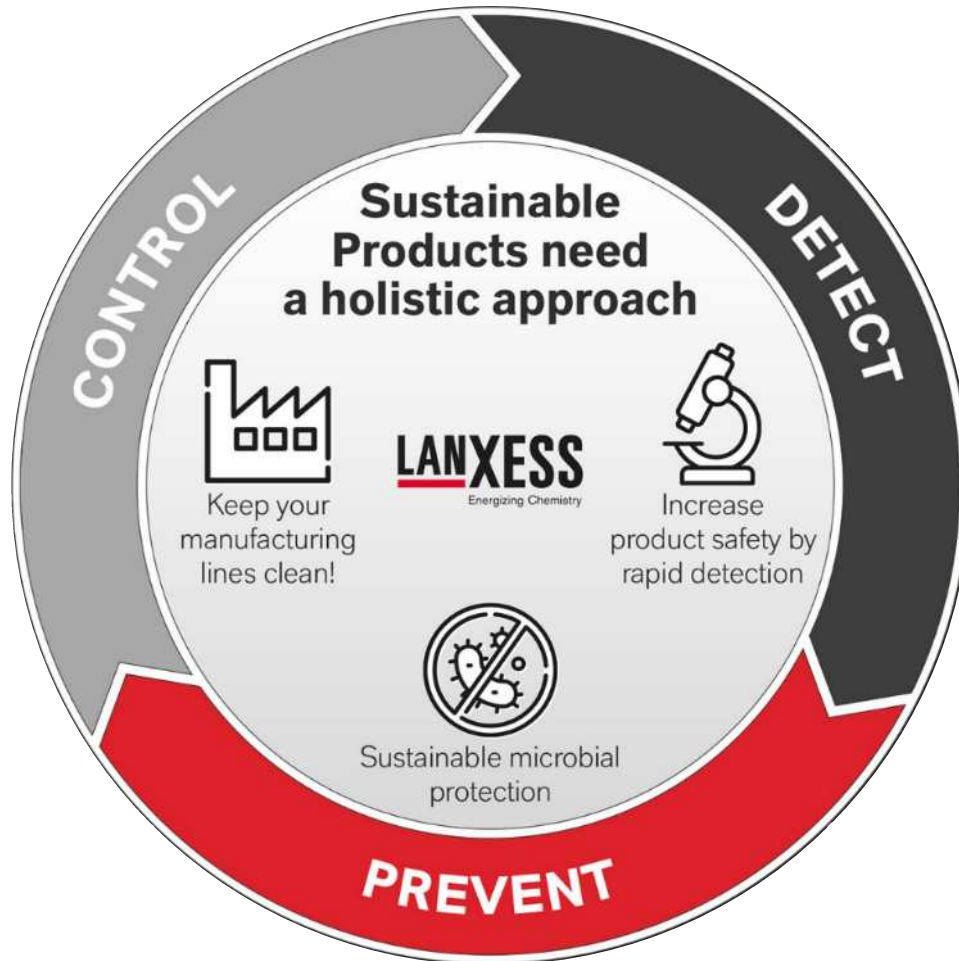
This is an ongoing responsibility, not a one-off task.

Holistic Approach

Preservation alone cannot address all aspects of hygiene is so much more!

LANXESS offers a holistic approach to support you.

Our holistic approach for your plant hygiene



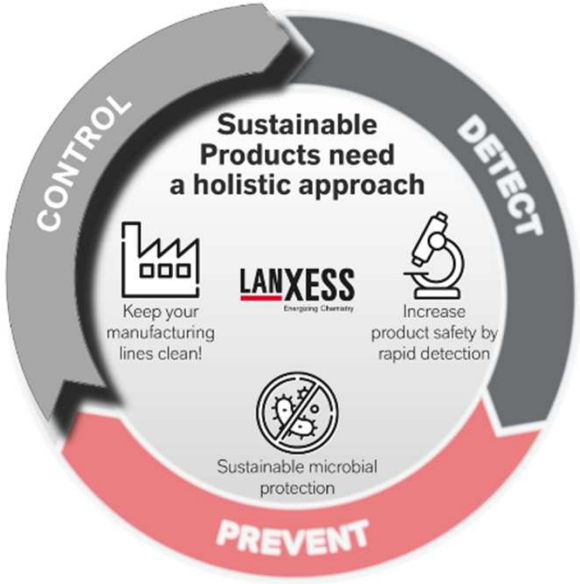
DETECT critical spots in production and conduct regular hygiene audits (internal and external)

PREVENT by proper preservation and have a end product with great longevity

→ this alone will not be enough

CONTROL your raw materials, water source, installation and equipment

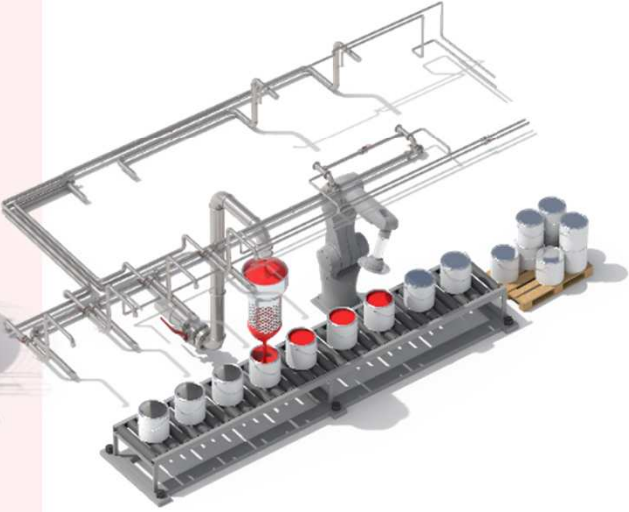
Control your environment for good and long-lasting end products



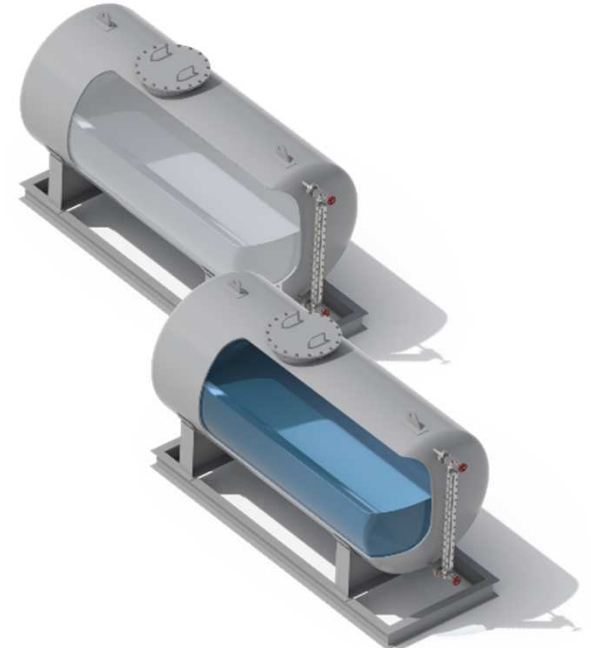
Raw Materials and Storage



Installation and Equipment



Spoiled water and recycled water





Most effective treatment if your raw materials might spoil

> Bioban[®] DB 20



Active ingredient: DBNPA

- 20% active ingredient
- pH 3.5
- Liquid solution
- 12 months shelf life



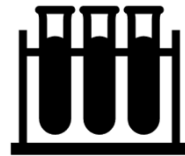
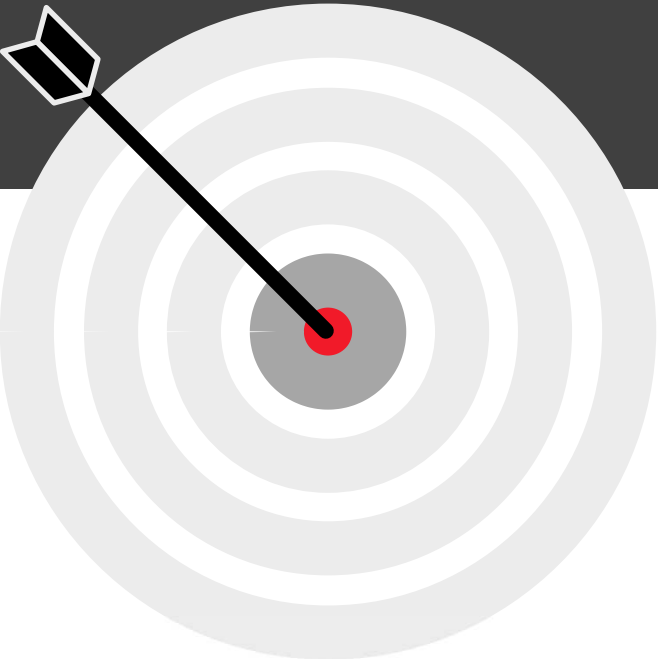
- Immediate microbial kill
- Excellent compatibility with materials and equipment
- Short-term problem solver
- Rapid degradation



- Usage under PT 6, 11, 12
- Broad national registrations
- DBNPA approved for PT 6

Preventol® OX

The next-generation disinfectant that delivers powerful surface, water, and biofilm hygiene where it is needed



Product properties

Active ingredient: KMPS

- >89% active ingredient
- Crystalline solid
- 12 months shelf life



Application

- Disinfection of surfaces, water and biofilm
- Fast acting soft oxidizer
- Versatile mechanisms
- Easy handling, no foaming
- Good environmental classification



Regulatory

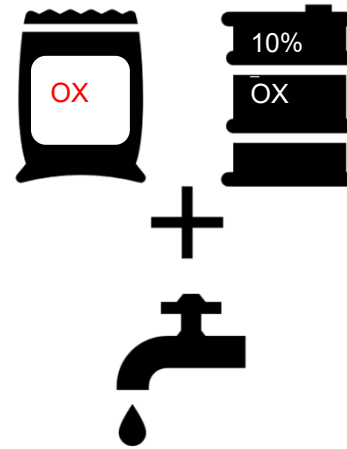
- National Registration status
- Covering PT 2
- designed to meet today's toughest regulatory and operational demands



Preventol® OX comes in the form of powder – a concentrate can be easily prepared and stored

Powder Handling

No dust generation



Disinfection solution

For immediate use

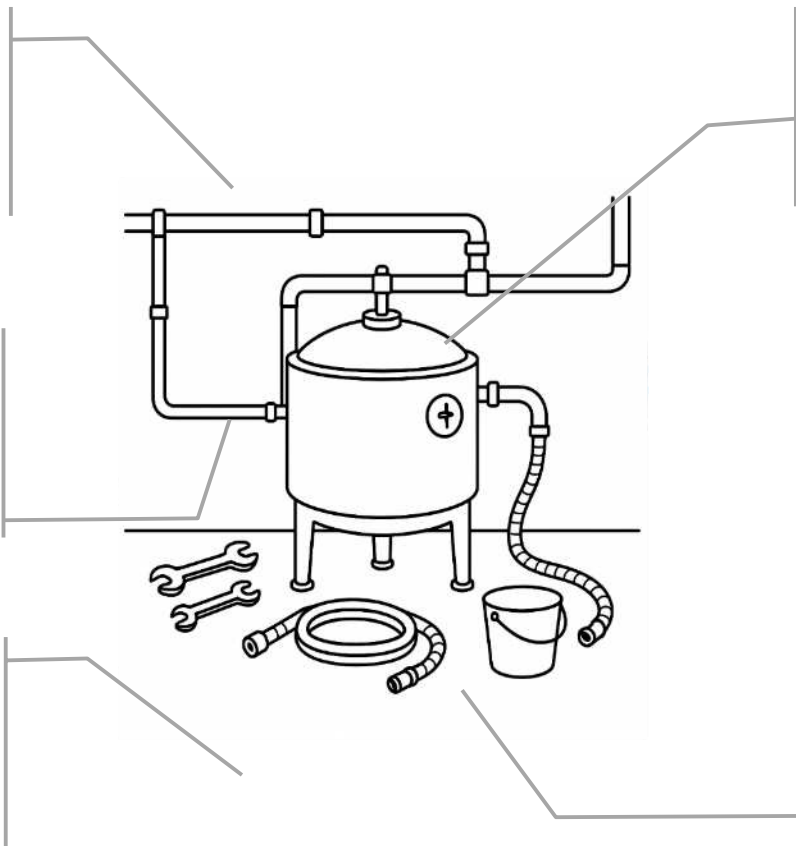
- They contain the in-use concentration for the disinfection purpose
- Application can be done by Immersion/ Dipping, Circulation and Spraying

Preparation of liquid concentrate

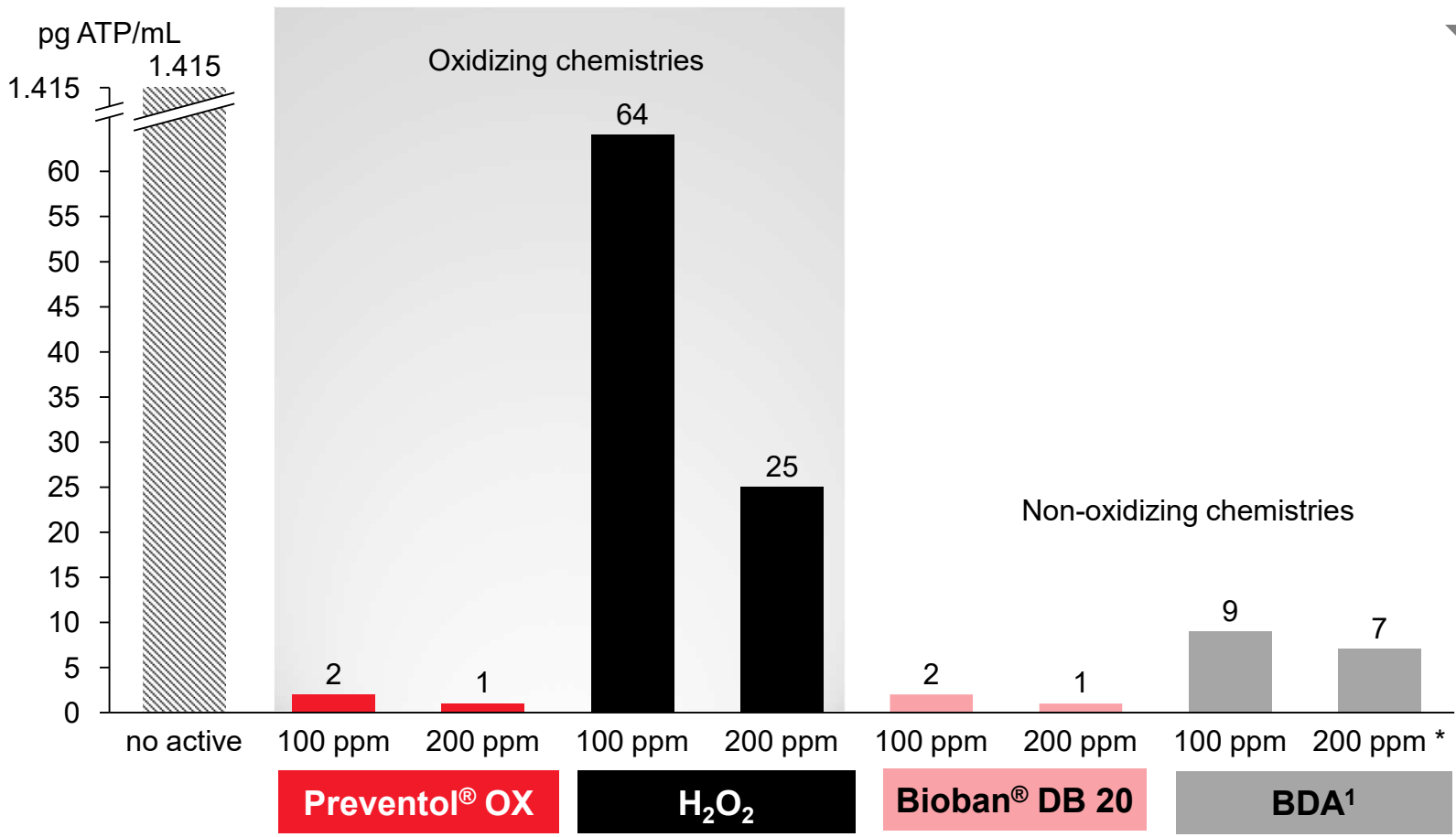
Liquid handling and storage possible



Disinfection of surfaces in a plant is versatile



Biofilm removal after 24h is superior with Preventol® OX



Comparable to Bioban® DB 20 and supported under PT 2

>10 times more efficient than H₂O₂

Easy handling and no foaming

* refers to active substance concentration
¹ N,N-Bis-(3-Aminopropyl)dodecylamin

Preventol® OX: Versatile and easy surface disinfection

Way of application



- Mopping
- Wiping
- Spraying
 - Manual
 - Automated
- Circulating
- Immersion

Benefits



- Extremely fast cleaning and disinfection
- No tolerance formation
- Easy handling
- No foaming
- Good shelf life

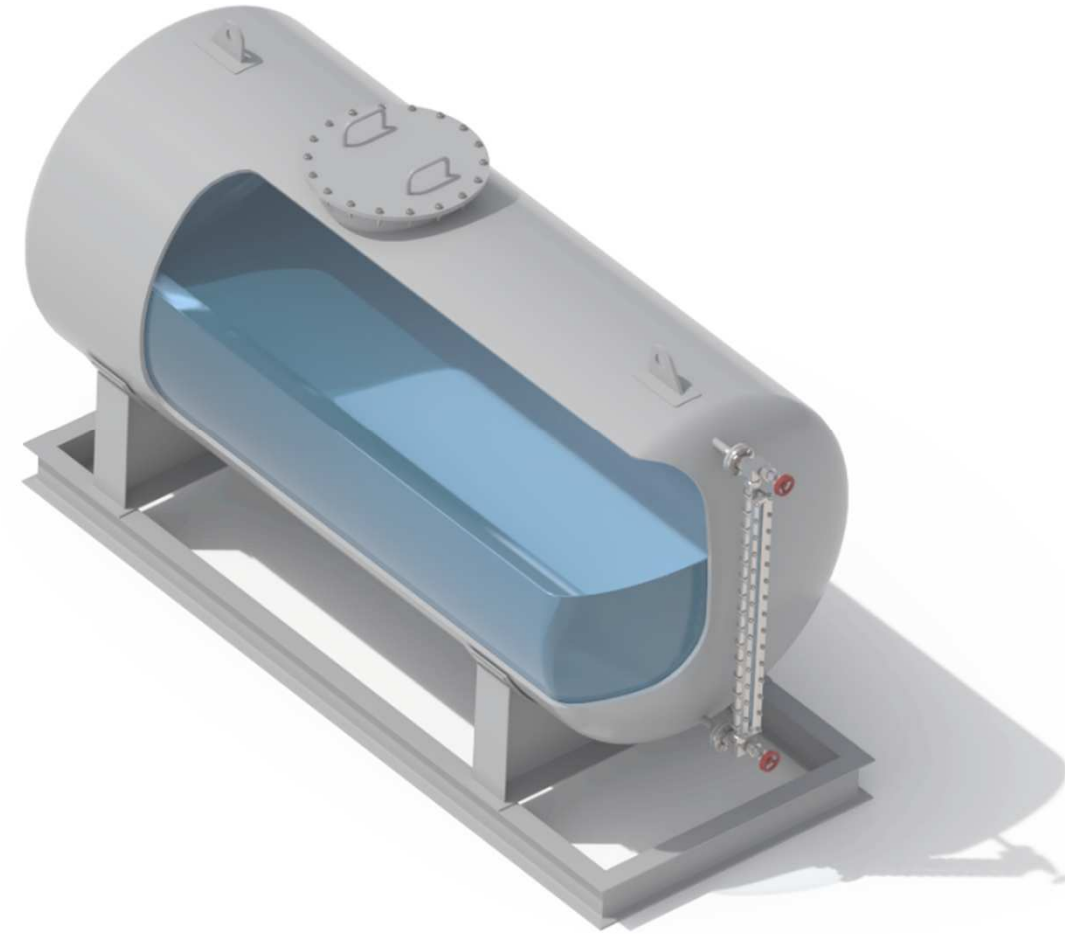
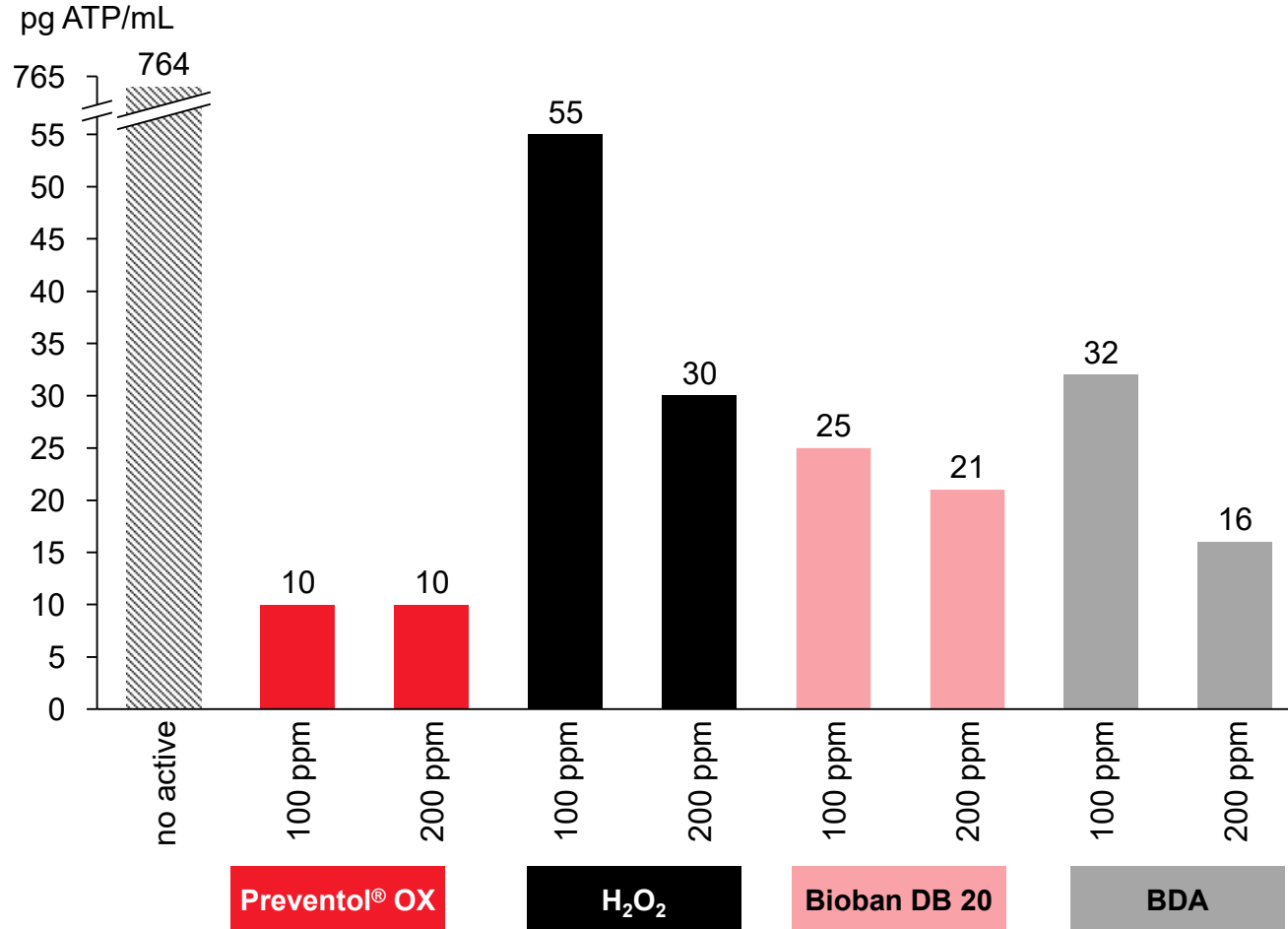
Disinfection depends on

- Contact time
- Contamination level
 - More contamination → increase the dosage
 - Longer contact time → decrease the dosage

Application protocols

| | Surfaces | Biofilm removal |
|--------------------------|--------------|-----------------|
| Short contact 30 min | 0.5% - 1% | Not recommended |
| Long contact 4h – 24h | 0.05% - 0.2% | 0.01% - 1% |

Only 4 hours are enough to quickly disinfect water with Preventol® OX



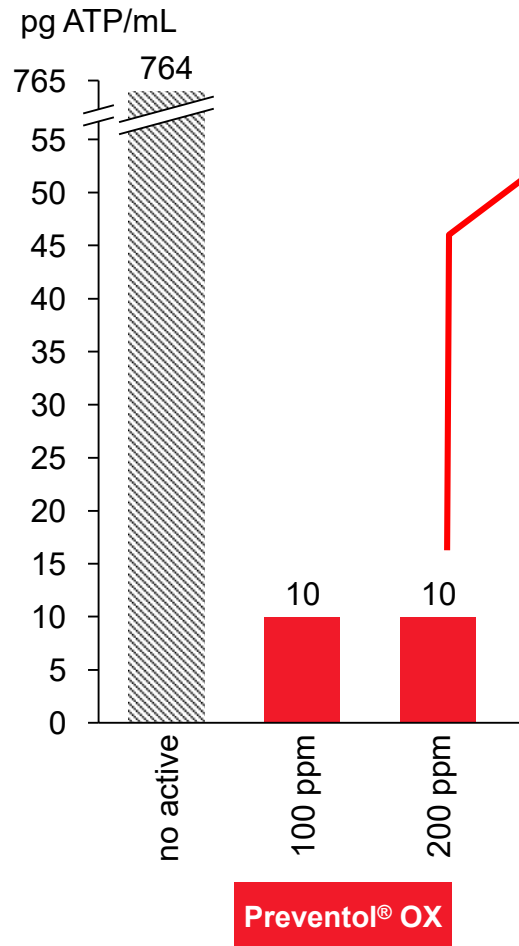
Superior Legionella disinfection with Preventol® OX

200 ppm Preventol® OX: efficacious Legionella Pneumophila disinfection within only 1 hour

European Center for Disease Prevention and Control ('23):
10,000 annual, 700 fatal Legionnaire's Disease cases.



Cooling systems can release aerosols that spread Legionella, which may cause Legionnaire's Disease when inhaled.



Wash water is not wash water

Organic Content in wash water

- Different organic composition of industrial wash water
- Organic content influences the effectiveness of oxidative biocides
- Dissolved Organic Carbon (DOC) and Chemical Oxygen Demand (COD) are two measures for organic content

Organic content DOC [mg/L]



~ 10

~100

< 1.000

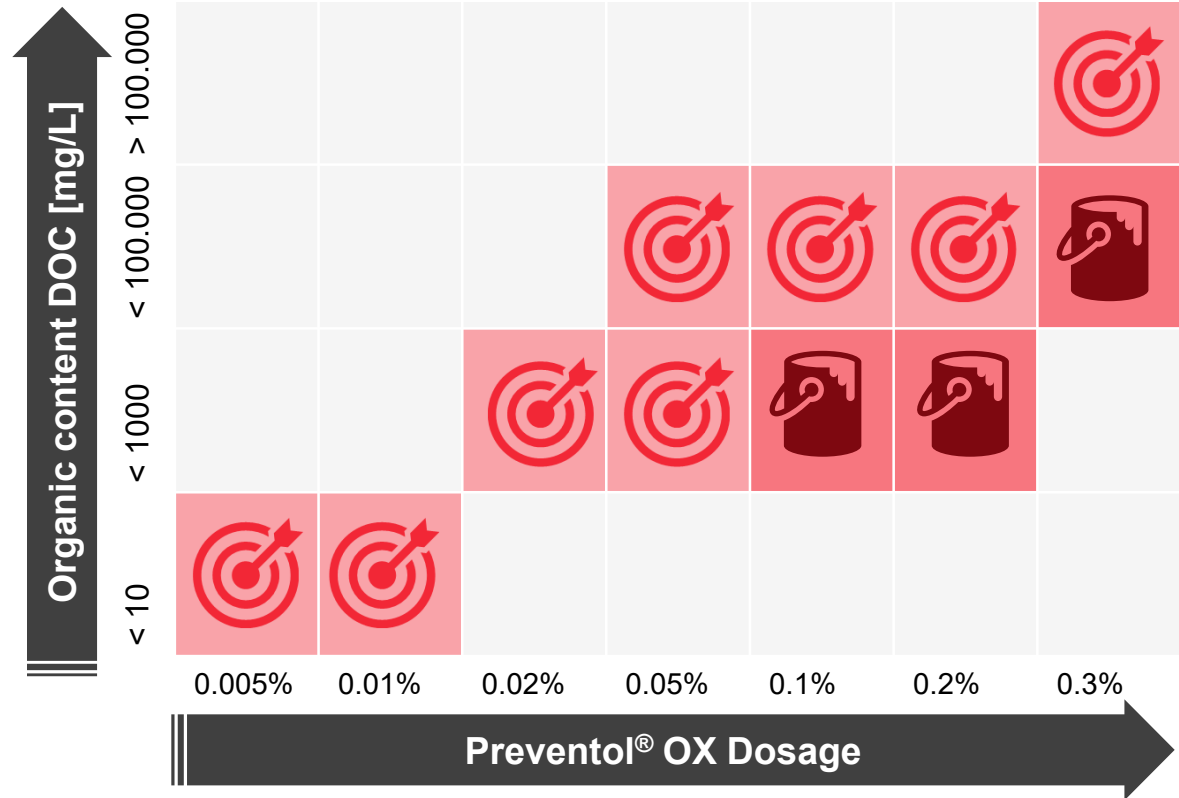
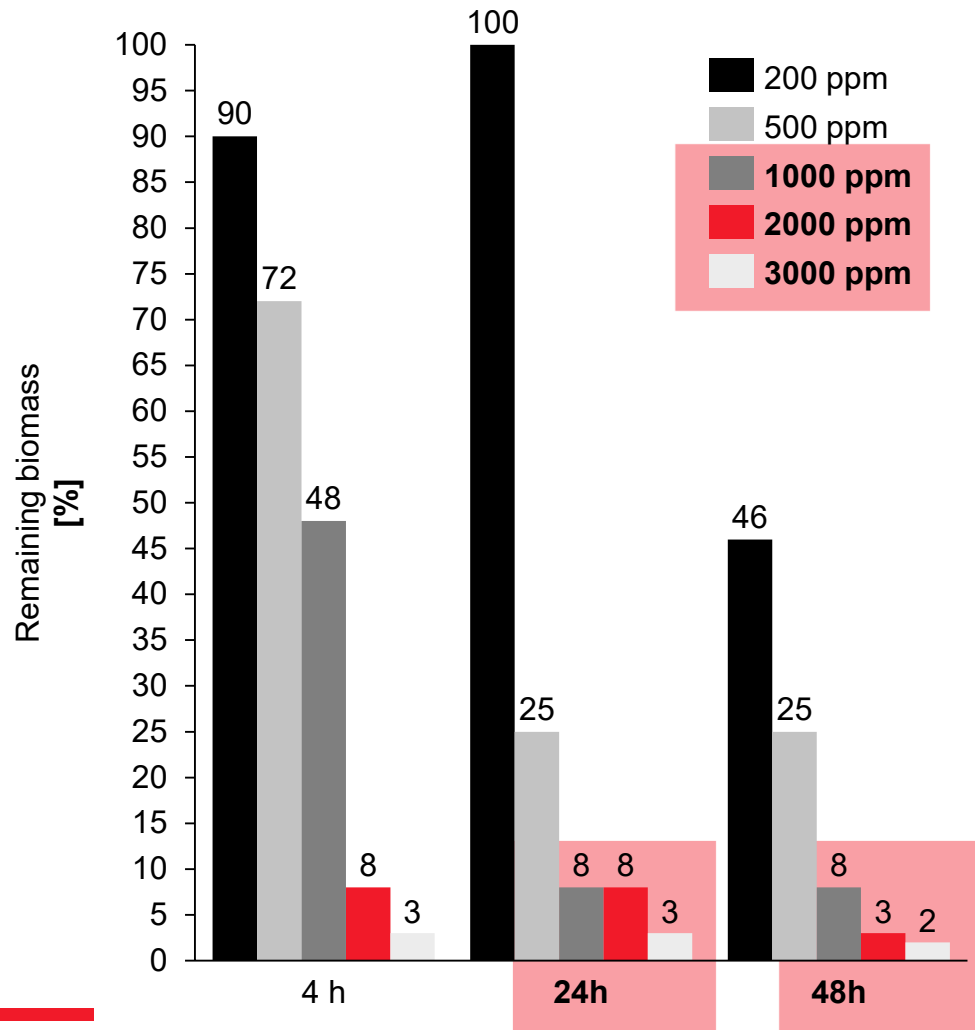
~ 10.000

<100.000



>100.000

Disinfection of wash water always depends on the organic content

Preventol® OX enables you to recycle your wash water



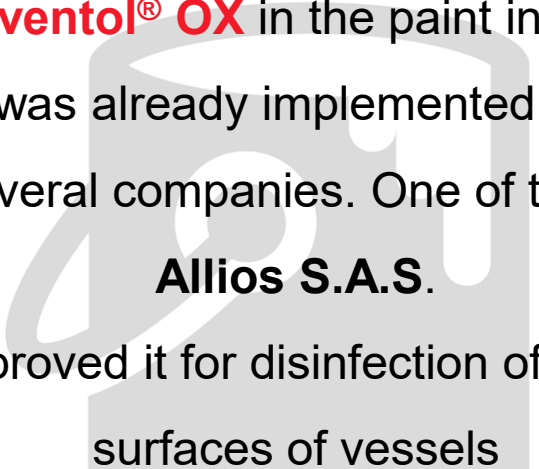
Preventol® OX Dosing Chart

-  for Emulsion and Slurry Industry
-  for Paints Industry

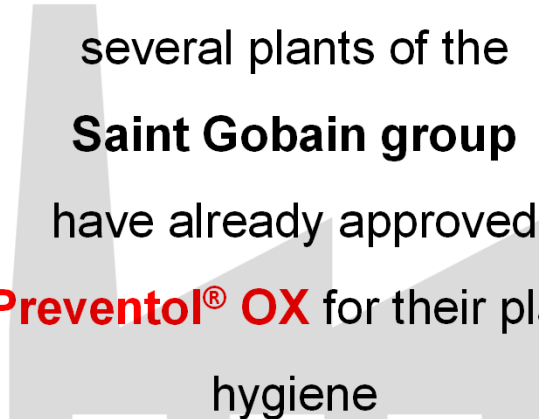
Successfully implemented by leading industry players

Trusted by companies committed to proactive hygiene and sustainable production

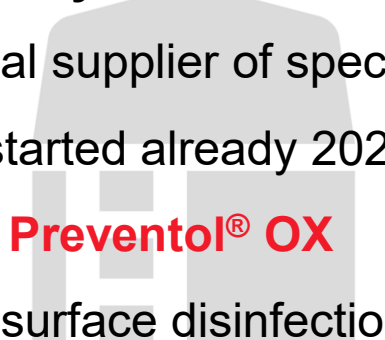
Preventol® OX in the paint industry was already implemented by several companies. One of them, **Allios S.A.S.** approved it for disinfection of inner surfaces of vessels



In the construction market several plants of the **Saint Gobain group** have already approved **Preventol® OX** for their plant hygiene



Synthomer, a global supplier of specialty polymer started already 2024 using **Preventol® OX** for surface disinfection



**Our goal is to make your hygiene practical,
measurable, and sustainable ...**

**...while you can focus on producing high-quality
products with confidence!**



General Legal Disclaimer

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Energizing Chemistry