

# QUALITY PRESERVES.



**QUALITY WORKS.**



**PREVENTOL® DP 1021: HIGH EFFICACY MICROBICIDE FOR WATER TREATMENT**

Microbial contamination in cooling systems can result in blockages, corrosion, reduced heat exchange efficiency and increased downtime.

Biofilm formation is one of the major biofouling concerns in the water treatment industry.

Preventol® DP 1021 is a synergistic blend of Bronopol and DGH providing long-lasting efficacy with a broad spectrum against slime formers, biofilms as well as anaerobic (SRB) and aerobic bacteria.

Even at low dosages, Preventol® DP 1021 has a broad spectrum activity including efficacy against *Legionella*.

**Preventol® DP 1021 (50 ppm) vs. *Legionella pneumophila*, serogroup 1**



✓ : No Growth

Test conducted by *Special Pathogens Laboratory, The Legionella Experts*

**Figure 1: 50 ppm of Preventol® DP 1021 protect cooling systems upon repeated inoculation with *Legionella***

## TWO COMPLEMENTARY MODES OF ACTION

As a cationic surfactant, DGH breaks up the strong agglomeration of individual germs in biofilms paving the way for both actives to act on isolated cells. The dual mode of action reduces the risk of resistances.

Preventol® DP 1021 is the perfect choice to prevent microbial contamination in cooling systems.

Biocide	Efficacy				Dosage (ppm)	Surface active properties	Foam Production	pH Stability
	Leg.	B	F	A				
<b>Preventol® DP 1021</b>	✓✓✓	✓✓✓	✓✓	✓✓	<b>35 – 350</b>	<b>Moderate</b>	<b>Low</b>	<b>4 – 8.5</b>
Quats (50 %)	✓	✓✓	✓	✓✓	5 - 50	Moderate	Strong	2 – 12
Glutaraldehyde (50 %)	✓✓✓	✓✓✓	✓	-	40 - 200	Moderate	Moderate	3 – 9
Isothiazolinone (1.5 %)	✓✓	✓✓	✓	✓	100 – 1000	Moderate	None	2 – 9
DBNPA (20 %)	✓✓	✓✓✓	-	✓	25 – 120	High	None	4 – 8

Leg.: *Legionella pneumophila*, B: Bacteria, F: Fungi, A: Algae

✓✓✓: Most Effective ✓✓ More Effective ✓: Effective

**Table 1: Preventol® DP 1021 outperforms benchmark water treatment biocides**

### Contact

#### Headquarters

LANXESS Deutschland GmbH  
 Business Unit: Material Protection Products  
 Kennedyplatz 1  
 50569 Cologne, Germany  
 Phone: +49 221 8885-2016  
 E-Mail: MPP-eBusiness@LANXESS.com  
 Website: www.ProtectedbyLanxess.com

**Please contact us for additional information: visit [www.ProtectedbyLanxess.com](http://www.ProtectedbyLanxess.com)**

This information and our technical advice - whether verbal, in writing or by way of trials - are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with the current version of our General Conditions of Sale and Delivery. All trademarks are trademarks of the LANXESS Group, unless otherwise specified.

**LANXESS**  
 Energizing Chemistry

© LANXESS Deutschland GmbH

**Use biocides safely. Always read the label and product information before use.**

10218-EN | 01/2019