QUALITY CLEANS.



QUALITY WORKS. LANXESS

PROPER PLANT HYGIENE

Plant Hygiene is key to producing a clean and longlasting product. Several measures can be taken, such as chemical treatment for disinfection of the plant as well as preservation of the raw materials used.

Products used for disinfection and preservation in plant hygiene are regulated under the BPR*. Consequently, active substances and products that are supported and authorized under the relevant product type (PT) must be used. The active ingredient DBNPA (CAS No. 10222-01-2) is supported by LANXESS under PTs 6, 11 and 12. It is in the product Bioban[™] DB 20 and is used to disinfect spoiled raw materials like resins and water for plant hygiene.

Installation and equipment disinfection requires a product that is supported under PT 2 of the BPR. Preventol[®] OX is the product for this purpose.

*Biocidal Products Regulation , Regulation (EU) 528/2012

PREVENTOL[®] OX AND BIOBAN™ DB 20 COMPLEMENT EACH OTHER

Preventol[®] OX with its active ingredient Pentapotassium bis (peroxymonosulphate) bis(sulphate) (CAS 70693-62-8), can be used for disinfection to support hygiene measures.

BiobanTM DB 20 and Preventol[®] OX complement each other in a perfect way. The oxidizer Preventol[®] OX controls the production water and cleans the installation, while BiobanTM DB 20 makes sure that contamination coming from raw materials remains as low as possible. On top, curative treatment of spoiled intermediates or end-products can be achieved with Bioban[™] DB 20.

EFFICACY PROFILES

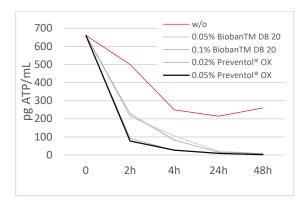


Figure 1: Growth control of bacteria in contaminated production water by Bioban™ DB 20 (DBNPA) and Preventol[®] OX (KMPS)

The efficacy evaluation shows that bacteria can be well controlled with both products, BiobanTM DB 20 as well as Preventol[®] OX.

Upon addition, Preventol[®] OX shows very fast action and is suitable to quickly sanitize spoiled make up water.

REMOVAL OF ORGANIC RESIDUES

The advantage of the non-chlorine oxidizer Preventol[®] OX is its strong oxidizing effect toward organic sediments and crusts (see Fig. 3).



w/o biocide Preventol® OX

0.1% Bioban™ DB 20 0.01%

Figure 2: Removal of organic residues on surfaces 1 hour after biocide addition.

Preventol[®] OX and Bioban[™] DB 20 were both added to water and organic material attached to

 Table 1: Comparison of important attributes*

glass and steel surfaces. After several time points the reduction of organic material was detected.

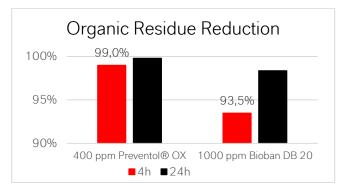


Figure 3: Comparison of the biofilm reduction within 24h using Bioban™ DB 20 as well as Preventol® OX.

After a very short contact time of 4 hours 99% of organic material were reduced by Preventol[®] OX and also Bioban[™] DB 20 reduces more than 90%.

Preventol[®] OX is the first choice when removing organic crusts and sediments.

	PREVENTOL® OX	BIOBAN™ DB 20
Active Ingredient	≥ 89% KMPS	20% DBNPA
Product description	Crystalline solid	Colorless to amber liquid
	non-chlorine disinfectant	Non-oxidizing bactericide
<i>р</i> Н	<i>p</i> H 1 in 10% solution	<i>p</i> H 3.5
Shelf life	12 months	12 months
Use area	Installation, equipment, production water	Production water and water-based products
Registration status	PT 2	PT 6
Dosage recommendations p	er applications	
Sanitization of spoiled product	Not recommended	0.02 - 0.05 %
Equipment cleaning	0.01% - 1%	Not recommended
Disinfection of production water	0.005% - 0.05%	0.012 - 0.2 %
Disinfection of recycle water	0.05% - 0.5%	0.02 - 0.2 %
Disinfection of wastewater	0.05% - 1.5%	-
Removal of organic crusts	0.01% - 0.5%	
Consumption for 1 m ³ of wa		
	0.05 – 0.5 kg	0.12 – 2.0 kg

*These items are provided as general information only. They are approximate values and are not considered part of the product specifications.



Headquarters

LANXESS Deutschland GmbH Material Protection Products Kennedyplatz 1 50569 Cologne Germany Phone: +49 221 8885-0 e-mail: regulatorysupport.biocides@lanxess.com Our technical advice - whether verbal, in writing or by way of trials - is based on the unverified information provided by you to us and given in good faith but without warranty or guarantee, express or implied, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to verify the information provided by us - especially that contained in our safety data and technical information sheets - and to test the products supplied by us as to their suitability for the products manufactured by you and / or your customers on the basis of our technical advice are beyond our control and, therefore, entirely your own and / or your customer's responsibility. In addition, our General Conditions of Sale and Delivery apply.

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

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