

QUALITY PROTECTS.



Microbiological protection – for **sustainable paints** with a **long shelf life**.

QUALITY WORKS.

LANXESS
Energizing Chemistry



BIOBAN™, KATHON™, SEA-NINE™ AND ROCIMA™ ARE NOW PART OF LANXESS

Aqueous raw materials used in the formulation of paints and coatings create the perfect environment for the growth of bacteria, fungi and yeast which can destroy these valuable formulations. Controlling these microorganisms helps increase efficiency, helps deliver a better end-use product and helps employees and consumers avoid contact with spoilage microorganisms.

With the acquisition of IFF Microbial control, we have become one of the world's largest suppliers of microbial control products. We have not only strengthened our global presence, especially in the United States, we now also offer one of the broadest portfolios on the market for paints and coatings, as well for wet- as for dry-state preservation.

X Preventol® **X** Bioban™ **X** Kathon™ **X** Sea-Nine™

X Rocima™ **X** Preventol® next **X** Sporgard®

Strong and well-diversified portfolio –

IN-CAN PRESERVATION



Paints & Plasters

All aqueous formulations require in-can preservation technologies to control contamination and increase shelf life. Our preservatives help fighting against a wide spectrum of microbes to prevent contamination and deliver an excellent finished product that's designed to last.

Preventol® BIT IT 360

- Combination of BIT and CMIT/MIT
- Fast acting and long-term preserving
- Excellent efficacy in low dosages
- Optimal ratio for future labeling limits

Preventol® DBC

- Aqueous dispersion
- Efficient and fast acting for critical products
- Free from FA and organic solvents
- Excellent performance against in-house bacteria



Polymer Emulsions

Our wide array of in-can preservatives offer cost-effective and long-term protection for a full range of industrial applications.

Preventol® P 91

- Aqueous preparation of 2-bromo-2-nitropropane-1,3-diol (Bronopol) and isothiazolinones.
- VOC-free.
- Broad and balanced spectrum of activity against bacteria (aerobic and anaerobic), mould and yeast.

N-2000 Antimicrobial

- Dodecyl guanidine hydrochloride (DGH) solution in dipropylene glycol/ propylene glycol
- For non-ionic stabilized systems
- For the control of bacteria and fungi, esp. Gluconacetobacter spec.



IN-CAN PRESERVATION

Plant Hygiene

Improper industrial hygiene can result in microbial contamination of raw materials, recycled water, and finally the end products. That can lead to equipment failure and decreased productivity. Our technical experts can help determine the cause of contamination with microbial audits of manufacturing facilities. These audits, coupled with industrial hygiene good practices, will help decrease costly shutdowns and production delays.

Bioban™ DB 20

- Quick kill biocide for rapid decontamination
- Use for plant clean-up, decontamination of raw materials and wash water

Preventol® OX

- Pentapotassium bis(peroxymonosulphate) bis(sulphate)
- Strong oxidizing active for water disinfection
- Efficient biofilm removal



X Bioban™ **X Rocima™**

Table 1: In-Can Preservatives

Product	Active ingredient	Appearance	VOC	AOX	Comment
Bioban™ DB 20	DBNPA	Solution	No	Yes	Plant Hygiene
Kordek™ MLX Industrial Microbicide	MIT	–	No	–	–
Kathon™ LX 1.5% Biocide	CMIT/MIT	Solution	No	Yes	–
Preventol® BIT 20-D	BIT	Dispersion	No	No	–
Preventol® BIT 20-N	BIT	Solution	Yes	No	–
Preventol® BIT 10	BIT	Solution	No	No	–
Preventol® BIT IT	BIT + CMIT/MIT	Dispersion	No	Yes	–
Preventol® BIT IT 360	BIT + CMIT/MIT	Dispersion	No	Yes	Optimal ratio for 360 ppm BIT
Preventol® BM 5	BIT + MIT	Solution	No	No	–
Preventol® D 8	CMIT/MIT + TMAD	Solution	Yes	Yes	–
Preventol® D 12	CMIT/MIT + EDDM	Solution	Yes	Yes	–
Preventol® D 7 LT	CMIT/MIT	Solution	No	Yes	–
Preventol® DP 18	Bronopol + DBDCB	Dispersion	No	Yes	Isothiazolinone-free
Preventol® DBC	DBDCB + BIT + CMIT/MIT	Dispersion	No	Yes	–
Preventol® P 10 W	Bronopol	Solution	No	Yes	–
Preventol® P 301 MV	CMIT/MIT + Bronopol	Solution	No	Yes	–
Preventol® P 91 MV	CMIT/MIT + Bronopol	Solution	No	Yes	–
Rocima™ 518 Biocide	DTBMA + BIT	Dispersion	No	No	–
Rocima™ 556	DTBMA	Dispersion	No	No	–
Rocima™ BT 20 AS	BIT	Dispersion	No	No	Optimal for food contact requirements
Preventol® OX	KMPS	Powder	No	No	Plant hygiene

FILM PROTECTION

Dry-film protection

Our microbial control technologies offer a broad spectrum of protection against molds, algae and lichens helping prevent microbial defacement over a long period of time.

- X **Preventol**[®]
- X **Preventol next**[®]
- X **Rocima**[™]
- X **Sporgard**[®]



Wood coatings

Wood coatings are not only for decorative purposes, they also protect wood against environmental conditions. Our biocide concentrates for wood coatings contain powerful active ingredients for both, water and solvent-borne formulations which protect wood coatings against fungal attack.

- X **Preventol**[®]
- X **Rocima**[™]



FILM PROTECTION

Marine Antifouling

Biocides for marine antifouling are essential for materials in permanent contact with sea-water like vessels or fishnet. Left untreated, hard-fouling (mussels, barnacles, tubeworms) and soft-fouling (algae, slime, diatomaceous) organisms can easily attach e.g. to the hull of a ship or boat, affecting fuel efficiency, and the durability of the coating.

Sea-Nine™ 211 N effectively protects metal from corrosion and prevents the growth of bacterial slime, algae, barnacles, seaweed and other marine organisms. With long-lasting control and stability in marine paint formulations, our technology provides solutions to a broad spectrum of organisms that can impact marine efficiency.



X Sea-Nine™

Table 2: Dry-film preservatives

Product	Active ingredient	Appearance	VOC	AOX	Comment
Preventol® A 17-D	TBZ + OIT	Dispersion	No	No	For indoor use
Preventol® A 26-D	ZPT + OIT	Dispersion	No	No	For indoor and outdoor use
Preventol® MP 440-D	IPBC	Dispersion	No	Yes	For indoor and outdoor use
Preventol® A 6/A 6-M	Diuron	Powder	No	Yes	For outdoor, algicide only
Preventol® A 6-D	Diuron	Dispersion	No	Yes	For outdoor use, Algicide only
Preventol® A 27-D	Diuron + ZPT + OIT	Dispersion	No	Yes	For outdoor use
Preventol® MP 260	IPBC	Solution	Yes	Yes	For indoor and outdoor use
Preventol® MP 700	IPBC	Solution	Yes	Yes	Stabilized IPBC solution Wood coatings
Preventol® next A 6-D	Diuron	Dispersion	No	Yes	Slow release technology
Preventol® next A 29-D	Diuron + ZPT + OIT	Dispersion	No	Yes	Slow release technology
Preventol® next MP 900	IPBC	Dispersion	No	Yes	Slow release technology
Rocima™ 342	DCOIT	Solution	No	Yes	Exterior Use
Rocima™ 344	DCOIT + OIT	Solution	Yes	Yes	Exterior Use
Rocima™ 350	DCOIT + IPBC	Dispersion	No	Yes	Exterior Use
Sea-Nine™ 211N	DCOIT	Solution	Yes	Yes	Marine Antifouling
Sporgard® WB	AZO, FDL + TBZ	Dispersion	No	No	For indoor use, fungicide only

REGULATORY AND TECHNICAL SUPPORT TO FIND THE MOST SUITABLE BIOCIDES FOR YOU



Are you looking for someone who supports you not only with quality biocide formulations, but also with a reliable service?

LANXESS' worldwide experts will support you finding the most suitable solution for you and your business.



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

Asia, Australia and New Zealand

LANXESS Pte Ltd
Business Unit: MPP, APAC Region
16, Joo Koon Crescent
Singapore 629018
Phone: +65 6725 5875
E-Mail: MPP-eBusiness@LANXESS.com

North and Central America

LANXESS Corporation
Business Unit: MPP
111 RIDC Park West Drive, Pittsburgh
Pennsylvania, PA, 15275-1112, USA
Phone: +1 412 809 1000
E-Mail: MPP-info@LANXESS.com

South America

IPEL - Itibanyl Produtos Especiais Ltda.
A Company of the LANXESS Group
Rod. Edgard Máximo Zambotto
Km 72,5
13240-000 Jarinu SP
Caixa Postal 049, Brazil
Phone: +55 11 4016-8000

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

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 intended processes and uses. The application, use and processing of our products and 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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Microbial Control website:

