

QUALITY CARES.

#Wecare



Your partner for
Personal Care preservation

QUALITY WORKS.

LANXESS
Energizing Chemistry



LANXESS

AT A GLANCE

LANXESS is a leading specialty chemicals company based in Cologne and established on the global market.

- Around 13,100 employees in 33 countries
- Annual sales of EUR 8.1 billion (2022)
- Core business: chemical intermediates, additives and consumer protection products
- Focus on our customers' requirements in order to drive progress and reliably provide innovative product, material and service solutions
- Sustainability and responsibility are key factors behind our successful business operations

Business Line CARE

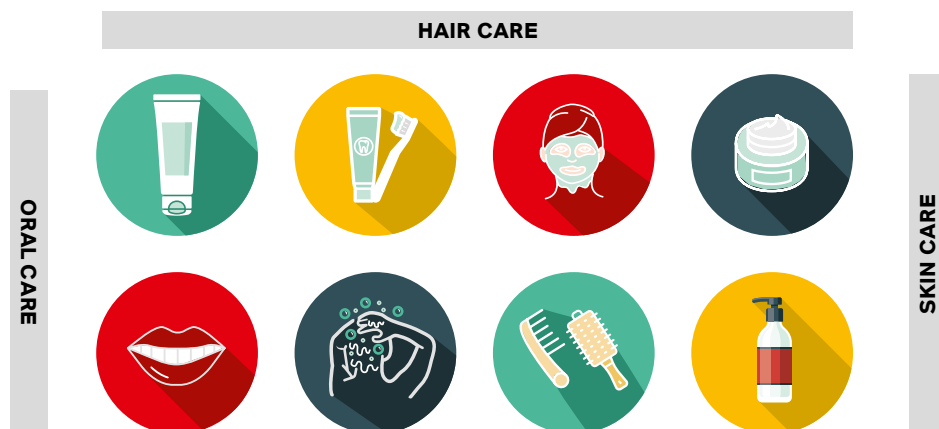
Your partner for preservation solutions

We as LANXESS, Business Line CARE, are dedicated to delivering preservation solutions for Home and Personal Care as well as specialized Health Care and Infection Prevention products on a global level. A broad portfolio of safe and effective preservatives protect Home and Personal Care products in a sustainable way. Benefit from our longstanding technical, microbiology and regulatory expertise, combined with a global network of R&D hubs. Our preservatives can be found in leave-on and rinse-off products of many recognized and trusted brands. Preservatives of the **Neolone®** brand protect Personal Care products such as face creams, body lotions, shampoos, conditioners and deodorants against unwanted bacteria, yeasts and molds. Our Home Care portfolio includes **Kathon®**, **Bioban®** and **Preventol®** brand preservatives for dishwashing detergents, laundry detergents and other applications.



OUR KEY PRODUCTS FOR PERSONAL CARE FORMULATIONS

Our new portfolio of preservative solutions for Personal Care adds value to your formulations. Whether you are looking for a sustainable innovative or a traditional solution, you will find an individual solution with us because #Wecare.



Neolone® PH 100 Preservative

Active: Phenoxyethanol

Neolone® PH 100 Preservative is a broad-spectrum antimicrobial useful for the protection of cosmetic and personal care products, including shampoos, hair conditioners, creams, and baby-care products. Neolone® PH 100 Preservative is the highest standard phenoxyethanol product with high-purity, pharmaceutical grade process control, and regulatory registration world-wide. It offers excellent stability over a wide pH and temperature range, providing an effective control of a broad spectrum of bacteria. CIR and SCCS rate phenoxyethanol as a safe preservative that can be used at a maximum of 1% in all Personal Care products.

Neolone® BioG Preservative

Active: LAE®

Neolone® BioG Preservative is a formulation based on Ethyl Lauroyl Arginate HCl (LAE® Preservative in glycerine). LAE® Preservative is derived from natural ingredients. Neolone® BioG Preservative demonstrates optimum performance in personal care products with a low anionic content. Neolone® BioG Preservative has excellent broad spectrum activity against a wide range of gram-negative bacteria, gram-positive bacteria, yeasts and molds and is most stable between pH 3 and 7. Neolone® BioG Preservative is readily non-irritating and non-sensitizing at recommended use levels. It is an excellent option for incorporation into cosmetic formulations.

Kathon® CG Preservative

Active: CMIT/MIT

A highly effective, broad spectrum preservative for rinse-off haircare and rinse-off skin care products. Kathon® CG Preservative has superior broad spectrum activity against many bacteria, yeasts and molds and is effective over a pH range typical for cosmetic products. It provides an excellent environmental profile, rapidly degrades, does not bioaccumulate and is nonpersistent in the environment. No color or odor is imparted to your personal care products. It is very effective at low use levels, providing cost to treat advantage.

Bioban® Bronopol Preservative

Active: Bronopol

Bioban® Bronopol preservatives provide broadspectrum bactericidal properties and excellent efficacy against *Pseu-domonas sp.* Bioban® Bronopol shows excellent performance in combination with other preservatives, particularly isothiazolinone based preservatives. Bronopol provides effective microbial control, even at very low use levels.

Oxone™

Active: Potassium Monopersulfate

Oxone™ monopersulfate compound is a powerful non-chlorine oxidizing agent used as a cleaning and bleaching component in oral care products such as denture cleansers and whitening toothpaste. Oxone™, a trusted oral care ingredient for over 60 years, effectively removes the stubborn stains caused by food, beverages and tobacco. It is a stable powder product that is easy to formulate, odor-free, works faster than other oxidizers while also being effective against bacteria and yeast.

Regional Product Availability

Please check with your LANXESS representative for specific country information. We are happy to assist you in finding the right product for your formulation and region.

Let us find your individual preservation solution

Please use biocides safely. Always read the label and product information before use. For information on the appropriate dosage, possible combinations and formulation specifics of this preservative for your individual application, please contact your LANXESS representative to closely support you.

Our Personal Care Preservatives

| Product | Active ingredient | Percentage active in finished formulation | Application | | | | Optimal pH for preservative performance | Recommended production temperature |
|-----------------------------|--------------------------|---|-------------|-----------|------|-----------|---|------------------------------------|
| | | | Leave-on | Rinse-off | Wipe | Oral care | | |
| Neolone® PH100 Preservative | Phenoxyethanol | 0.3~1.0% | ■ | ■ | ■ | | 3.0–10.0 | <45°C short period to 70 °C |
| Neolone® BioG Preservative | LAE® | 0.25~2.0% | ■ | ■ | ■ | | 3.0–6.0 | ~45°C |
| Kathon® CG Preservative | CMIT/MIT | 0.05~0.1% | | ■ | | | <8.5 | <45°C short period to 60 °C |
| Neolone® 950 Preservative | MIT | 0.05~0.1% | | ■ | | | 2.0–12.0 | <45°C short period to 70 °C |
| Neolone® PE Preservative | Phenoxyethanol, MIT | 0.3~0.57 % | | ■ | | | 3.0–10.0 | <45°C short period to 70 °C |
| Bioban® Bronopol PC30 | Bronopol | 0.03~0.3% | ■ | ■ | ■ | | 3.0–8.0 | <45°C |
| Bioban® Bronopol PC | Bronopol | 0.01~0.1% | ■ | ■ | ■ | | 3.0–8.0 | <45°C |
| Oxone™ | Potassium Monopersulfate | | | | | ■ | | |

GET IN TOUCH WITH OUR LOCAL CARE SALES TEAM

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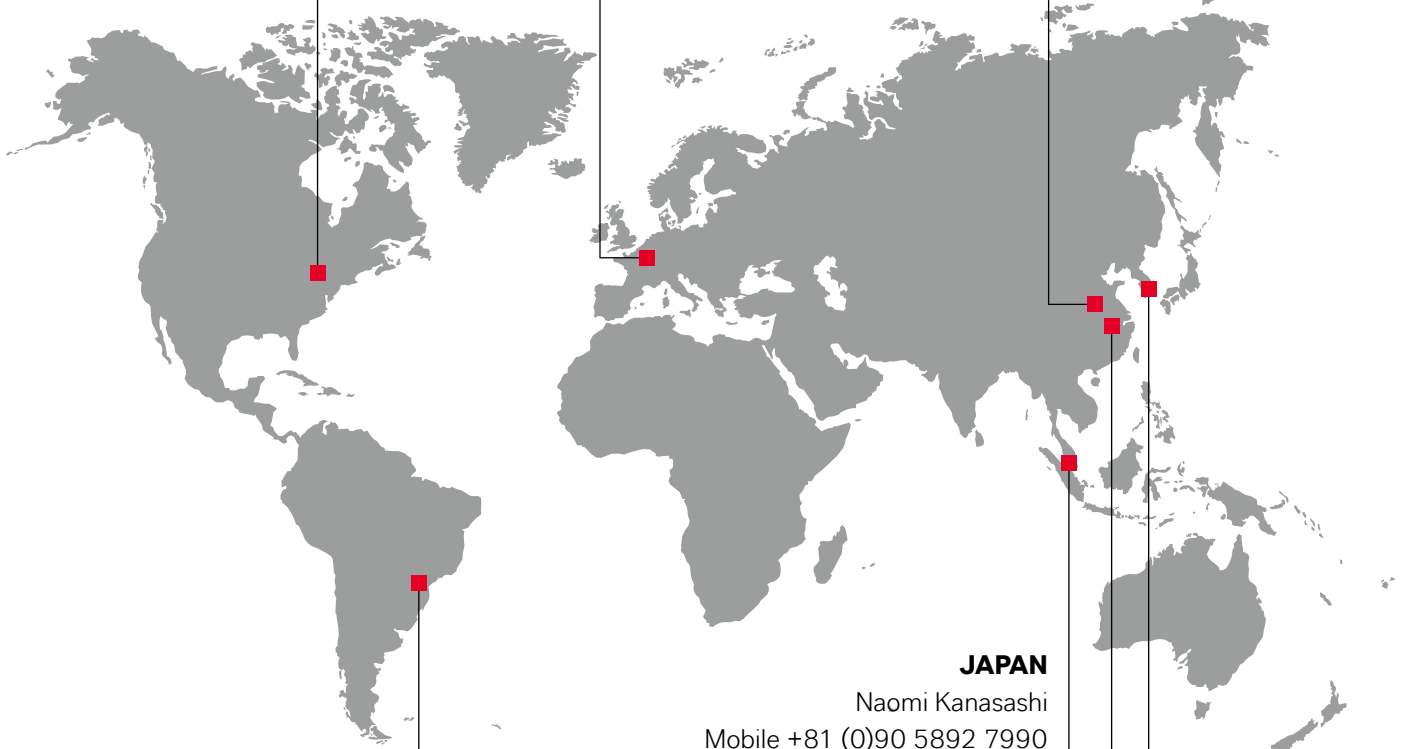
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Unless specified to the contrary, the values given have been established on standardized test specimens at room temperature. The figures should be regarded as guide values only and not as binding minimum values. Kindly note that the results refer exclusively to the specimens tested. Under certain conditions, the test results established can be affected to a considerable extent by the processing conditions and manufacturing process.

Note: Information contained in this publication is current as of August, 2023. Please contact LANXESS Deutschland GmbH respectively LANXESS Corporation to determine if this publication has been revised.

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