

schülke -+

Personal Care

Performance and safety for your products



the plus of pure
performance

Your Partner in Hygiene and Preservation

schülke

For over 115 years our business philosophy has had an unwavering focus: hygiene & preservation

Schülke & Mayr GmbH is a chemical and pharmaceutical company. Our products and services protect people and materials against infection and contamination.

Today, more than ever, germs cross borders. Their existence is dangerous, but not as dangerous as the underestimation of their threat to people and material. Taking precautions plays a special role – preventing contaminations and infections is far easier than combating them.

schülke is fighting diseases and contaminations before they emerge. For this we offer innovative technologies, highly effective products and expert support services.

Our company philosophy is based on a total quality concept that not only considers the quality of our products in the sense of effective product formulas, but one that encompasses a vast array of dimensions; such as:

- workplace safety
- environmental management and
- leadership and cooperation in our quality concept

The demand for total quality at schülke creates more than economic success. This concept is responsible for a sustainable contribution to the environment and society.

To realise this total quality concept our company values focus on:

Partnership

Not only in our daily cooperation, but also in the long term, we want to be a dependable partner for our customers worldwide.

With expert customer advice and an all-encompassing support service, we ensure that the interests of all parties are satisfied. This also applies to our relations with suppliers and other business partners.

Initiative

Forward thinking and taking action is a major factor of our success. We have to recognise the challenges of the future in order to be able to offer timely solutions. The desire for innovation also ensures our future competitiveness and the company's success.

Reliability

Reliability is a prerequisite for successful cooperation as it creates trust, and trust is the basis of long-term partnerships and sustainable success.

Our goal is the continual improvement of products, processes and services in order to ensure economic success, customer satisfaction and corporate social responsibility.

More than a century of competence in preservation and hygiene...



1889

Foundation of the company by Rudolf Schülke & Julius Mayr in Hamburg.
Presentation of the first ever branded disinfectant in the world – lysol®



1892

Successful combating of the Hamburg cholera epidemic with lysol®

Special Additives International – our expertise from preservation to multifunctional additives



Personal Care

Our euxyl® brand provides numerous preservative blends for the cosmetic industry. These optimised combinations of active substances offer broad spectrum efficacy, keeping cosmetic products free of microbial growth.

Our sensiva® brand includes versatile, multifunctional skin care additives for personal care products. With their unique properties, they are suitable for use in a wide range of cosmetic applications; including creams, lotions and deodorants.



Household

Most cleaning products found in households today are water-based systems. These products are prone to microbiological build-up. To be safe for consumers to use, they require the protection of preserving agents. With the parmetol® and grotan® ranges, schülke offers products to preserve a wide range of household applications.



Coatings and Building Materials

The prevention of microbiological degradation of products containing water is one of the most important challenges now and in future.

schülke provides modern types of formulated in-can preservatives to protect your products under the brand names parmetol® and grotan®. Furthermore, with distinctive dry film preservatives we keep coated surfaces free from growth of fungi and algae and help to avoid material destruction and visible disfigurement.



Metalworking fluids

Microbiological spoilage of water-mixed metalworking fluids is one of the biggest threats for quality assurance, work and process safety and in the mass production of metal parts; for example in the automotive industry. With the grotan® product line, schülke offers the metalworking industry a complete range of tailor-made biocides for all possible applications; such as preservation of metalworking fluid concentrates, post treatment of water mixed metalworking fluids and microbiocidal system cleaners.



MQM

We support our customers with a comprehensive concept of Microbiological Quality Management (MQM) including lab services, application advice, plant audits and training programs for employees. It is not only a matter of eliminating the risk of infections for people, but also of protecting products and equipment from contamination.



1892

Schülke & Mayr issues its own series of postage stamps for the export business in German East Africa



1913

Market launch of sagrotan®, the world's first household disinfectant.

1920

Introduction of a disinfectant to combat tuberculosis pathogens

Microbiological Quality Management



MQM – protecting the environment and your products

We are convinced that controlled and responsible use of disinfectants and preservatives is the only way to ensure the sustainable protection of man, materials and the environment. schülke not only manufactures preservatives and disinfectants but also offers Microbiological Quality Management as a holistic approach to achieve hygienically-sound products.

On request we can conduct a thorough Hygiene Audit of your operation, train your staff in hygiene practices, provide advice on factory design and compile detailed hygiene plans for your organisation.

If you are interested in taking a comprehensive approach to preventing microbiological contamination and safeguarding your products and processes then we will be pleased to support you.

Life cycle of a cosmetic product



high risk of contamination no risk of contamination

More than a century of competence in preservation and hygiene...



1924
First chemical-technical preservative for glues: grotan®

1950
Introduction of an antiviral disinfectant



1960
Introduction of parmetol® preservatives for paints, glues, etc.



1960
Introduction of the first preservative for cooling lubricants: grotan® BK

Preservatives for Cosmetics & Toiletries



euxyl® – preservation according to your needs

There are a number of factors to consider when choosing a preservative for your formula – different ingredients in the formula, pH value, type of packaging, countries where the product is to be sold, company policy – to name a few.

The large number of possible microorganisms, different packaging and storage conditions and the enormous diversity of raw materials used in cosmetics and toiletries imposes demands that cannot be met by just one substance used at an acceptable dosage.

With the euxyl® product line schülke has developed a wide range of multi component preservative systems. The optimum combination of different active substances offers broad spectrum efficacy, reduces the potential of adverse toxicological findings, gives handling advantages and last but not least offers cost savings.

product benefits:

- broad, balanced spectrum of effect against bacteria, yeast and mould
- liquid formulations
- easy and safe to use
- effective over wide pH ranges

1965
First aldehyde-based disinfectant

1970
First patented preservative for water-based emulsion paints: parmetol® A 23



1975
gigasept® – the first HBV-effective disinfectant



1976
Introduction of grotamar 71®, a biocide for diesel fuels

Preservatives for Cosmetics & Toiletries

product	EU INCI declaration	US INCI declaration	pH range	max. temperature during production
euxyl® PE 9010	Phenoxyethanol, Ethylhexylglycerin	Phenoxyethanol, Ethylhexylglycerin	< 12	stable
euxyl® K 100	Benzyl Alcohol, Methylchloroisothiazolinone/ Methylisothiazolinone *)	Benzyl Alcohol, Methylchloroisothiazolinone/ Methylisothiazolinone	< 8	40 °C
euxyl® K 120	Methylchloroisothiazolinone/ Methylisothiazolinone *)	Methylchloroisothiazolinone/ Methylisothiazolinone	< 8	40 °C
euxyl® K 145	2-Bromo-2-Nitropropane-1.3-Diol, Methylchloroisothiazolinone/ Methylisothiazolinone *)	Water, 2-Bromo-2-Nitropropane-1.3-Diol, Methylchloroisothiazolinone/ Methylisothiazolinone	< 8	40 °C
euxyl® K 220	Ethylhexylglycerin, Methylisothiazolinone, Aqua	Water, Methylisothiazolinone, Ethylhexylglycerin	< 10	40 °C
euxyl® K 300	Phenoxyethanol, Methylparaben, Butylparaben, Ethylparaben, Propylparaben, Isobutylparaben	Phenoxyethanol, Methylparaben, Butylparaben, Ethylparaben, Propylparaben, Isobutylparaben	< 8	80 °C
euxyl® K 320	Phenoxyethanol, Methylparaben, Ethylparaben, Propylene Glycol	Propylene Glycol, Phenoxyethanol, Methylparaben, Ethylparaben,	< 8	80 °C
euxyl® K 350	Phenoxyethanol, Methylparaben, Ethylparaben, Propylene Glycol, Ethylhexylglycerin	Phenoxyethanol, Methylparaben, Ethylparaben, Ethylhexylglycerin, Propylene Glycol	< 8	80 °C
euxyl® K 400	Phenoxyethanol, Methyldibromo Glutaronitrile	Methyldibromo Glutaronitrile, Phenoxyethanol	< 8	80 °C (max. 4 hours)
euxyl® K 500	Aqua, Diazolidinyl Urea, Sodium Benzoate, Potassium Sorbate	Diazolidinyl Urea, Sodium Benzoate, Potassium Sorbate	< 7	80 °C (max. 4 hours)
euxyl® K 510	DMDM Hydantoin, Methylchloroisothiazolinone/ Methylisothiazolinone *)	Water, DMDM Hydantoin, Methylchloroisothiazolinone/ Methylisothiazolinone	< 8	40 °C

*) Active ingredients without auxiliaries. For full INCI declaration kindly contact us.

use	use-concentrations			product
	acc. schülke recommendation	acc. EU and ASEAN Cosmetics Directive	acc. CIR (USA)	
Leave-on products	0.50 – 1.00 %	max. 1.10 %	max. 5.50 %	euxyl® PE 9010
Rinse-off products	the efficacy will be reduced with ethoxylated surfactants	max. 1.10 %	max. 5.50 %	
Leave-on products	0.05 – 0.10 %	max. 0.21 %	max. 0.10 %	euxyl® K 100
Rinse-off products	0.05 – 0.15 %	max. 0.21 %	max. 0.21 %	
Leave-on products	max. 0.05 %	max. 0.10 %	max. 0.05 %	euxyl® K 120
Rinse-off products	0.03 – 0.10 %	max. 0.10 %	max. 0.10 %	
Leave-on products	0.05 – 0.15 %	max. 0.30 %	max. 0.15 %	euxyl® K 145
Rinse-off products	0.05 – 0.30 %	max. 0.30 %	max. 0.30 %	
Leave-on products	0.05 – 0.12 %	max. 0.13 %	max. 0.13 %	euxyl® K 220
Rinse-off products	the efficacy will be reduced with ethoxylated surfactants	max. 0.13 %	max. 0.13 %	
Leave-on products	0.50 – 1.00 %	max. 1.38 %	max. 2.50 %	euxyl® K 300
Rinse-off products	the efficacy will be reduced with ethoxylated surfactants	max. 1.38 %	max. 2.50 %	
Leave-on products	0.50 – 1.40 %	max. 1.42 %	max. 2.66 %	euxyl® K 320
Rinse-off products	the efficacy will be reduced with ethoxylated surfactants	max. 1.42 %	max. 2.66 %	
Leave-on products	0.50 – 1.40 %	max. 2.00 %	max. 2.66 %	euxyl® K 350
Rinse-off products	the efficacy will be reduced with ethoxylated surfactants	max. 2.00 %	max. 2.66 %	
Leave-on products	–	not to be used	max. 0.125 %	euxyl® K 400
Rinse-off products	0.05 – 0.15 %	not to be used	max. 6.25 %	
Leave-on products	0.50 – 1.50 %	max. 2.50 %	max. 2.50 %	euxyl® K 500
Rinse-off products	0.20 – 1.00 %	max. 2.50 %	max. 2.50 %	
Leave-on products	0.05 – 0.15 %	max. 0.55 %	max. 0.27 %	euxyl® K 510
Rinse-off products	0.05 – 0.15 %	max. 0.55 %	max. 0.55 %	

Recommended use-concentrations are based on average active content.
Please pay attention to the corresponding certificate of analysis.

Preservatives for Cosmetics & Toiletries

product	EU INCI declaration	US INCI declaration	pH range	max. temperature during production
euxyl® K 700	Phenoxyethanol, Benzyl Alcohol, Potassium Sorbate, Aqua, Tocopherol	Phenoxyethanol, Water, Benzyl Alcohol, Potassium Sorbate, Tocopherol	< 5.5	80 °C (max. 4 hours)
euxyl® K 701	Phenoxyethanol, Benzoic Acid, Dehydroacetic Acid, Ethylhexylglycerin	Phenoxyethanol, Benzoic Acid, Dehydroacetic Acid, Ethylhexylglycerin	< 6	80 °C (max. 4 hours)
euxyl® K 702	Phenoxyethanol, Benzoic Acid, Dehydroacetic Acid, Aqua, Ethylhexylglycerin, Polyaminopropyl Biguanide	Phenoxyethanol, Benzoic Acid, Dehydroacetic Acid, Water, Ethylhexylglycerin, Polyaminopropyl Biguanide	< 6	80 °C (max. 4 hours)
euxyl® K 703	Phenoxyethanol, Benzoic Acid, Dehydroacetic Acid	Phenoxyethanol, Benzoic Acid, Dehydroacetic Acid	< 6	80 °C (max. 4 hours)
euxyl® K 712	Aqua, Sodium Benzoate, Potassium Sorbate	Water, Sodium Benzoate, Potassium Sorbate	< 5.5	80 °C (max. 4 hours)
euxyl® K 727	Phenoxyethanol, Methylidibromo Glutaronitrile, Methylchloroisothiazolinone/ Methylisothiazolinone *)	Methylidibromo Glutaronitrile, Methylchloroisothiazolinone/ Methylisothiazolinone, Phenoxyethanol	< 8	40 °C
s&m phenoxyethanol	Phenoxyethanol	Phenoxyethanol	< 12	stable
s&m methylparaben	Methylparaben	Methylparaben	< 8	80 °C
s&m propylparaben	Propylparaben	Propylparaben	< 8	80 °C
s&m bronopol	2-Bromo-2-Nitropropane-1,3-Diol	2-Bromo-2-Nitropropane-1,3-Diol	< 8	40 °C

*) Active ingredients without auxiliaries. For full INCI declaration kindly contact us.

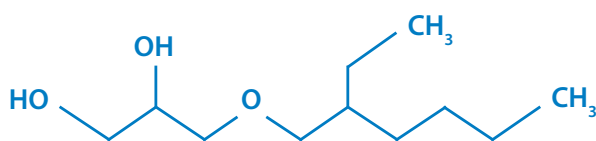
use	use-concentrations			product
	acc. schülke recommendation	acc. EU and ASEAN Cosmetics Directive	acc. CIR (USA)	
Leave-on products	0.50 – 1.50 %	max. 3.20 %	max. 16.00 %	euxyl® K 700
Rinse-off products	0.50 – 1.50 %	max. 3.20 %	max. 16.00 %	
Leave-on products	0.40 – 1.20 %	max. 1.26 %	max. 6.32 %	euxyl® K 701
Rinse-off products	0.40 – 1.20 %	max. 1.26 %	max. 6.32 %	
Leave-on products	0.20 – 1.00 %	max. 1.35 %	max. 6.76 %	euxyl® K 702
Rinse-off products	0.20 – 1.00 %	max. 1.35 %	max. 6.76 %	
Leave-on products	0.40 – 1.20 %	max. 1.23 %	max. 6.17 %	euxyl® K 703
Rinse-off products	0.40 – 1.20 %	max. 1.23 %	max. 6.17 %	
Leave-on products	0.50 – 1.50 %	max. 1.96 %	max. 16.66 %	euxyl® K 712
Rinse-off products	0.50 – 1.50 %	max. 5.35 %	max. 16.66 %	
Leave-on products	–	not to be used	max. 0.30 %	euxyl® K 727
Rinse-off products	0.05 – 0.15 %	not to be used	max. 0.60 %	
Leave-on products	max. 1.00 %	max. 1.00 %	max. 5.00 %	s&m phenoxyethanol
Rinse-off products	max. 1.00 %	max. 1.00 %	max. 5.00 %	
Leave-on products	max. 0.40 %	max. 0.4 % (acid) for 1 ester, max. 0.8 % (acid) for mixture of esters	max. 0.40 %	s&m methylparaben
Rinse-off products	max. 0.40 %		max. 0.40 %	
Leave-on products	max. 0.40 %	max. 0.4 % (acid) for 1 ester, max. 0.8 % (acid) for mixture of esters	max. 0.40 %	s&m propylparaben
Rinse-off products	max. 0.40 %		max. 0.40 %	
Leave-on products	max. 0.10 %	max. 0.10 %	max. 0.10 %	s&m bronopol
Rinse-off products	max. 0.10 %	max. 0.10 %	max. 0.10 %	

Recommended use-concentrations are based on average active content.
Please pay attention to the corresponding certificate of analysis.

Multifunctional Skin Care Additives



Ethylhexylglycerin



Ethylhexylglycerin is a synthetic representative of the 1-alkyl glycerine ethers with a high degree of purity. Substances with a similar structure occur in nature. These alkoxy lipids are widely distributed in human and animal tissue. High levels of the neutral alkoxy lipids are present in the liver of cartilaginous fish. Batyl alcohol and selachyl alcohol have been isolated from the non-saponifiable proportions of liver oils of sharks and rays.

Chimyl alcohol has been found in the liver of the sea rat (*Chimaera monstrosa*). All of these are 1-alkyl glycerine ethers, namely octadecyl-, hexadecyl- and 9-octadecenyl glycerol.

Ethylhexylglycerin is the result of the systematic study of substances in the 1-alkyl glycerine ether class of compounds. It is very stable, e.g. against hydrolysis and elevated temperature, and compatible with cosmetic ingredients. It is a crystal-clear, colourless liquid with a slight characteristic odour.

Ethylhexylglycerin is globally approved for use in cosmetic products. It is commercially available under the brand name *sensiva*® SC 50.

More than a century of competence in preservation and hygiene...



1978

First *schülke* preservative for cosmetics: *euxyl*® K 100

1985

schülke disinfectant against HBV/HIV



1986

Development of formaldehyde-free disinfectants, e. g. *antifect*®, *gigasept*® FF



1989

Introduction of *octenisept*®, a mucous membrane and wound antiseptic

product	INCI declaration	pH-range	max. temperature during production	use	use concentration
sensiva® SC 50	Ethylhexylglycerin	< 12	stable	Leave-on, Deodorants, Wet-wipes	0.3 – 1.0 %
sensiva® SC 10	Ethylhexylglycerin, Caprylyl glycol	< 12	stable	Leave-on, Rinse-off, Deodorants, Wet-wipes	0.5 – 2.0 %

sensiva® SC 50 – approved for pure performance



sensiva® SC 50, pure ethylhexylglycerin, is a versatile and multifunctional additive as well as a very effective deodorant active.

sensiva® SC 50 reliably inhibits the growth and multiplication of odour-causing bacteria while at the same time not adversely affecting the skin flora. Sniff tests conducted on products containing sensiva® SC 50 show it to provide good protection against unpleasant body odour for up to 24 hours after the last application.

As an emollient and mild humectant, sensiva® SC 50 improves the skin feel of cosmetic formulations. Additionally it can increase the antimicrobial efficacy of alcohols and glycols and thus enhance the efficacy of standard preservative systems.

sensiva® SC 50 is globally approved.

The use of sensiva® SC 50 as an ingredient for deodorants and skin care additive is protected by patents.

product benefits:

- multifunctional cosmetic ingredient
- skin care additive
- medium spreading emollient
- improves skin feel of cosmetic formulations
- effective against odour causing Gram positive bacteria
- booster of cosmetic alcohols and glycols
- enhancer for traditional preservative systems



Multifunctional Skin Care Additives



sensiva® SC 10 – designed for your innovations

sensiva® SC 10 is a versatile and multifunctional additive based on caprylyl glycol and ethylhexylglycerin. Its unique properties make it suitable for use in a wide range of cosmetic applications. It combines the excellent skin care and deodorising properties of ethylhexylglycerin with the moisturising and antimicrobial properties of caprylyl glycol.

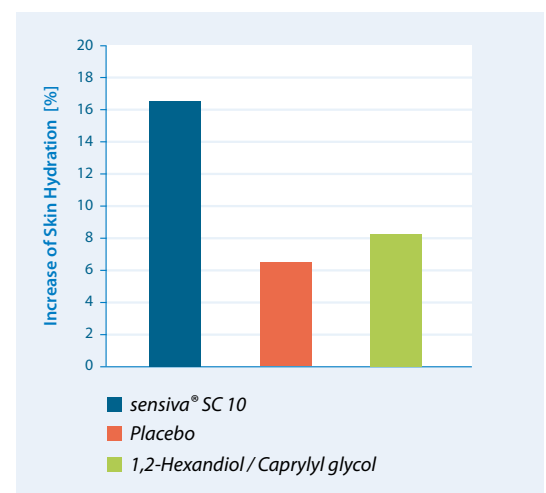
sensiva® SC 10 is a mild humectant and emollient with a unique skin feel. Additionally, it can contribute to the antimicrobial stability of cosmetic formulations. It can also be used to improve the efficacy of traditional cosmetic preservatives, such as parabens or phenoxyethanol.

sensiva® SC 10 is globally approved.

sensiva® SC 10 shows good skin moisturising properties while at the same time improving the skin feel of cosmetic formulations.

product benefits:

- versatile skin care additive
- emollient and mild humectant
- improves the skin feel of cosmetic applications
- antimicrobial stabiliser for leave-on formulations
- booster for traditional cosmetic preservatives



More than a century of competence in preservation and hygiene...



1992

Patented cosmetic preservative based on organic acids: euxyl® K 702



1996

schülke becomes a subsidiary of the Air Liquide Group



1998

Move into the new office in Norderstedt

Ethylhexylglycerin

– the booster for traditional preservative actives

euxyl® PE 9010

– developed for mild skin care

Phenoxyethanol is a familiar and well accepted cosmetic preservative. The addition of ethylhexylglycerin enhances the efficacy of phenoxyethanol. The innovative, multifunctional additive affects the interfacial tension at the cell membrane of micro-organisms, improving the preservative activity of phenoxyethanol.

product benefits:

- patented liquid concentrate
- broad spectrum effect
- fast-acting, often within a few hours
- ideal for the preservation of clear, transparent gels
- extensive toxicological data of the ingredients



- drop 1: demineralised water
- drop 2: dm water + 1.0 % euxyl® PE 9010
- drop 3: dm water + 0.9 % phenoxyethanol
- drop 4: dm water + 0.1 % ethylhexylglycerin

euxyl® K 220

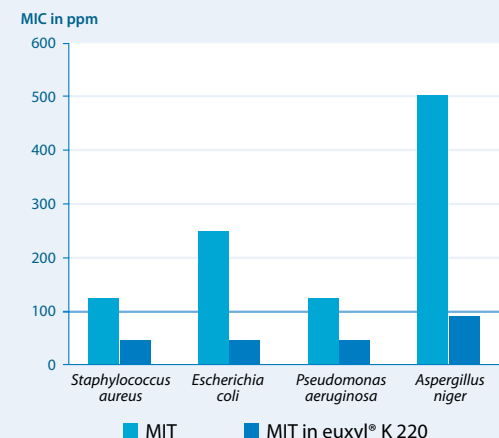
– the sophisticated combination

The preservative active methylisothiazolinone is a young member on the positive list of the EU-Cosmetics Directive and can be used up to 100 ppm in all cosmetic applications. Its good efficacy especially against bacteria is enhanced by the multifunctional additive ethylhexylglycerin. This sophisticated formulation is stable over wider pH ranges than commonly used CMI/MI combinations and free of halogen organic compounds.

product benefits:

- very effective at low use-concentration
- low sensitization potential
- no halogen organic compounds
- actives not under public discussion
- globally approved (EU, US, Japan)

Determination of the minimum inhibitory concentration in serial dilution tests produced the following values:



2000
schülke: 111 years young and represented in more than 60 countries



2000
Market launch of grotan® OX, a new biocide for coolants



2003
schülke Inc. established in USA



2003
Schülke & Mayr GmbH established in China

Plant Hygiene Support

mikrocount® – the convenient hygiene monitoring system



In addition to production hygiene measures, quality assurance concepts require routine hygiene monitoring during the production process and documentation of the results. The dip slide,

mikrocount® combi provides every operation with individual means of rapid and reliable hygiene controls. The dip slide can be used for testing raw materials, for in-process controls during the production process and for quality control of finished products.

The mikrocount® combi dip slide enables simple sampling and evaluation of the results even by personnel without any microbiological training.

product benefits of mikrocount® combi:

- fast, safe and easy
- control of raw materials, intermediate and finished products
- separate evaluation of bacteria, yeast and moulds on different agar surface

cultura® – the versatile small incubator

The cultura® incubator is compact and versatile enough for almost any laboratory or manufacturing setting. The built in tray has room to hold up to 18 mikrocount® combi dip slide samples. A transparent door allows for viewing of the contents without removing samples from the incubator.

The adjustable temperature is pre-set by the manufacturer to maintain 30 °C, an optimum temperature for incubating mikrocount® dip slides. Results for bacteria are available after 24 to 48 hours. The detection of yeast and moulds takes slightly longer (72 hours).

product benefits:

- compact enough to use almost anywhere
- easy temperature adjustment
- designed for use with mikrocount® combi



More than a century of competence in preservation and hygiene...



2004 |
Introduction of grotan® OK, a patented improved version of grotan® OX



2004 |
Patented cosmetic preservative based on Phenoxyethanol and Ethylhexylglycerin: euxyl® PE 9010



2007 |
Introduction of sensiva® SC 10, a versatile skin care additive

grotanol® SR 2 – the reliable system cleaner



Ensuring reliable product quality also includes a regular cleaning and microbiological sanitation of the production plant. grotanol® SR 2 is a mild alkaline system cleaner (pH 10) which provides a good immediate effect at a low use concentration in combination with mechanical cleaning.

product benefits:

- excellent cleaning effect
- broad, balanced spectrum of effect against bacteria, yeast and moulds
- fast acting
- extremely low use concentration
- excellent material compatibility
- low foaming

use / use concentrations:

- production plants, circulating systems and equipment: 2.5 – 7.5 g/kg (0.25 – 0.75 %) in aqueous solutions

grotanol® 3025 – the formaldehyde-free sanitizer

grotanol® 3025 is a low-foaming, formaldehyde-free sanitizing concentrate based on aldehyde compounds. grotanol® 3025 has a balanced spectrum of effect against bacteria and fungi. grotanol® 3025 is intended for use in the cosmetic industry for microbiological sanitizing of surfaces, plant and apparatus. Use-solutions of grotanol® 3025 can be stored for several months.



product benefits:

- formaldehyde-free
- broad spectrum of effect
- low-foaming, therefore also suitable for plant sanitization in pumped circulation
- can be rinsed off without leaving residue (if rinsing is necessary)
- neutral pH value
- extensively tested material compatibility
- miscible with alkaline, anionic and non-ionic cleaning agents in the dilution for use

use / use concentrations:

- production plants, circulating systems and equipment: 5 – 15 g/kg (0.5 – 1.5 %) in aqueous solutions

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



2007 |
Market launch of euxyl® K 220, an innovative preservative based on MIT and Ethylhexylglycerin

schülke →

2007 |
Our future: growth and competence throughout the world...
schülke, your partner for preservation and hygiene in the 21st century



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Our recommendations regarding our products are based on in-depth scientific testing in our Research Department; they are given in good faith, but no liability can be derived from them. It is the responsibility of the final product manufacturer to assure that claims made for the final product are in conformance with all applicable local laws. In other respect our Conditions of Sale and Supply apply.

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