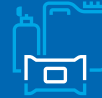




SAFE



AND EASY



DISINFECTION



FOR ALL



YOUR NEEDS.



**PRODUCT**



**CATALOGUE**



2024



## Introduction

# We are Dr. Schumacher. We protect your health.

**D**ear readers, mid-size companies are widely recognized as the backbone of the German economy. As a proud member of this essential group and a leading innovator in the global healthcare community, Dr. Schumacher has many reasons to celebrate:

## Full MDR certification

We are among the first in our industry to be fully MDR certified. We are proud to ensure the safety and effectiveness of

our products to the highest standards and requirements. This reflects our own values that our founder, Dr. Henning Schumacher, instilled in the company when he started Dr. Schumacher GmbH over 40 years ago. Today, we are a global company, still

exclusively in family hands, and proud of our roots in the German state of Hessen. What makes us special is the extraordinary commitment to quality from all our colleagues. Whether at our headquarters in Malsfeld, at our facilities in Lubań, Poland (the largest wipe production in the EU), or at our other production and sales locations around the world, each

member of the Schumacher group lives and breathes quality.

## Sustainability as an ethos.

Dr. Schumacher GmbH has made sustainability a priority long before it was a trend in healthcare. For over 20 years, we have been actively reducing our carbon footprint – powering our factories with 100% renewable resources - and focusing on sustainable solutions for professional disinfection and hygiene. Our expert research and development team crafts innovative formulas using the least amount of harmful active ingredients possible, while still delivering top of the line efficacy and lightning fast contact times for practical and economical use. We are driven to provide the best possible product, while at the same time making the most efficient use of all resources. We enable our users to become more sustainable themselves with more and more environmentally friendly product solutions - including biodegradable wipes made from natural materials and high level oxidative disinfectants that break down into harmless components.

## One Schumacher – one standard.

As the Dr. Schumacher group continues to grow, it is important to not lose sight of our mission – creating a safe environment for patients and medical personnel through easy-to-use, safe disinfection. With regulatory requirements differing widely from region to region, it is a matter of pride for us to ensure that all Dr. Schumacher products are measured to the same quality standards and certifications – no matter if made in Germany, Poland, or at our rapidly expanding production facilities in Tire, Turkey. We are one Schumacher, with one guarantee: We protect your health!



A handwritten signature in blue ink, appearing to read 'Dierk Schumacher'.

**Dierk Schumacher**

CEO and Managing Director





## Our Company

# OUR VISION FOR *HEALTHCARE*

OUR COMMITMENT TO HIGHLY EFFECTIVE, SAFE AND USER-FRIENDLY DISINFECTION SOLUTIONS HAS DRIVEN OUR PRODUCT DEVELOPMENT FOR OVER 40 YEARS. PRODUCTS FROM DR. SCHUMACHER REMAIN TRUE TO THE GUIDING BELIEF OF OUR COMPANY'S FOUNDER: **THAT PEOPLE AND THEIR HEALTH MUST BE AT THE CENTER OF OUR THINKING AND ACTION.**

Following his pioneering spirit, Dr. Henning Schumacher founded Dr. Schumacher GmbH in 1978, in Melsungen, Germany and subsequently handed over the company to his sons, Dierk and Jens Schumacher, at the end of the 90's. Under the brothers' leadership, we continue to honor their father's legacy and philosophy today.

The blending of innovation and tradition has shaped our history and has a unique impact on the research and development of new products in an exciting way. With more than 1,500 employees across eight countries and a distribution network spanning over 70 countries, Dr. Schumacher GmbH has become a globally recognized brand and

one of Europe's leading providers in the development and manufacturing of disinfectants and hygiene products. Whether hygiene, disinfection and care products for the medical sector, or OEM, private label and cosmetic products for the consumer market – we offer our customers a comprehensive full-service range. Built around the house that Dierk and Jens grew





up in, our headquarters is still located in northern Hesse, employing over 400 people and continuing to grow and provide value to our neighbors in the surrounding community.

### The Wipes Expert in Europe

Dr. Schumacher Polska in Lubañ, Poland is the largest manufacturer of wet and dry wipes products in the EU. Our goal is to develop simple yet highly effective solutions that protect from infections and

acher family. As a certified manufacturer of medical devices, drugs, biocides and cosmetics, we have extensive knowledge in the area of disinfection. Our employees are experts on the various requirements and regulations applied to products in the medical industry. We take our responsibility to customers and end-users very seriously and know that the basis of our success is the consistently high quality of our products and world class service. An extensively trained field service team regularly visits customers on site to find solutions directly where they are needed. Through this, we gain important insights for our continuous development of products and services – ensuring that Dr. Schumacher is at the forefront of creative and effective solutions.



*„Safe and effective disinfection should not be a privilege. It must be available for everyone everywhere.“*

**Dr. Henning Schumacher**

Founder and Visionary

contamination.

We use the latest technology and manufacturing processes at our facilities, including resource conservation, heat recovery and waste reduction. We impose highest possible quality requirements and controls on our products.

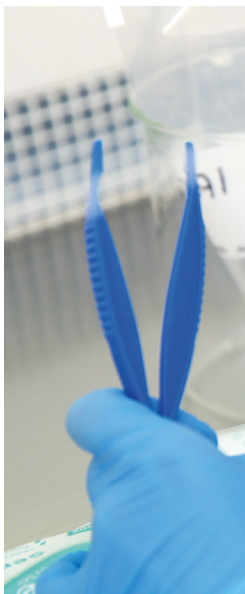
An environmentally friendly work environment is very important to the Schum-

In addition to our bestselling disinfectant and cleaning wipes for professional use, Dr. Schumacher also makes consumer wipes and cosmetic products for well-known partners that are available in numerous drugstores and markets across Europe (incl. cosmetic, baby, cleaning and floor wipes). Our customers benefit from our commitment to quality, but also from our competent advice and leadership in the consumer market. We collaborate with our customers through all steps of product conception to production to develop the ideal solution for their market, supporting and problem solving to make our partnership a success.

**Photo left** Our production and offices at the headquarters in Malsfeld, Germany.

**Photo right** Our state-of-the-art, 60.000 m<sup>2</sup> wipes and cosmetics production in Lubañ, Poland.

# QUALITY THAT SURPASSES THE TOUGHEST REQUIREMENTS



## Quality and Listings

**QUALITY THAT SETS US APART FROM REST. ALL PRODUCTS ARE TESTED AND CONTROLLED TO THE HIGHEST QUALITY STANDARDS.**

**A**s a developer and manufacturer in the medical industry, we are acutely aware of our obligation to provide our customers, end-users and ultimately the patients, with top quality disinfection and hygiene products. As an MDR -certified manufacturer of medical devices, drugs, biocides and cosmetics, we hold ourselves to the highest quality requirements and controls. Our quality team monitors every step of the production – from packaging and label requirements to mixing and final production. Each batch that comes off our production line comes with a Dr. Schum-

acher safety guarantee.  
**Certified and validated**

Our products are listed by several associations and medical institutions, making the quality and safety of their use clear to medical personnel. Dr. Schumacher's extensive certifications confirm our commitment to increased safety, operational and environmental protections and consistent product quality in our manufacturing processes. Among other things, we meet the requirements of DIN EN ISO 13485, which specifies guidelines for the design, manufacturing, storage and distribution of medical devices.

We are also one of the first companies to be certified according to the European Medical Device Regulation (MDR) and have a manufacturer's license for drugs. We have also been certified in accordance with DIN EN ISO 14001 and EMAS environmental management for over ten years. We regularly review our impact on the environment and actively look for new solutions and technologies to reduce our ecological footprint.





## LISTINGS

DAAB

IHO

ÖGHMP

RKI A

RKI AB

RKI/DVV

VAH

**DAAB** – Product tested and recommended by the German Allergy and Asthma Association ([www.daab.de](http://www.daab.de)). **IHO** – Industry Association for Hygiene and Surface Protection for Industrial and Institutional Use e.V. ([www.desinfektionsmittelliste.de](http://www.desinfektionsmittelliste.de)). **ÖGHMP** – Products listed in the disinfectant list of the Austrian Society for Hygiene, Microbiology and Preventive Medicine ([www.oeghmp.at](http://www.oeghmp.at)). **RKI A** – Products listed in the disinfectant list of the Robert Koch Institute according to § 18 IfSG, effective range A. **RKI AB** – Products listed in the disinfectant list of the Robert Koch Institute according to § 18 IfSG, effective range AB. **RKI/DVV** – Virucidal product according to the guidelines of the German Association for Combating Viral Diseases e.V. (DVV) and the Robert Koch Institute (RKI). **VAH** – Products listed in the disinfectant list of the Association for Applied Hygiene e.V. ([www.vah-online.de](http://www.vah-online.de)).

## CERTIFICATES AND MEMBERSHIPS



Sustaining Member



# INNOVATIVE, INDUSTRY LEADING, FUTURE-ORIENTED: **DR. SCHUMACHER PATENTS**



The Dr Schumacher patent seal shows which of our products contain our patented technologies.

## Patents and Product Development

NEW TECHNOLOGICAL PROCESSES, ADVANCED, INNOVATIVE, POWERFUL SOLUTIONS AS WELL AS OUR BASE OF OVER 550 EXISTING FORMULATIONS ARE THE PILLARS OF SUCCESSFUL PRODUCT DEVELOPMENT AT DR. SCHUMACHER GMBH.. THE RESULT IS REGULAR AND SUCCESSFUL PATENT SUBMISSIONS FOR OUR PRODUCTS AND TECHNOLOGIES.

Since the founding of Dr. Schumacher GmbH in 1978, our focus has been on innovative product development and patents. Our in-house research and development team sets us apart from the competition. In order to fulfill our promise to protect the health of our fellow human beings, we work tirelessly to continually improve our products.

### An Environment for Innovation

In an industry with evolving standards and ever-changing market requirements, the development of new technologies and patents for active ingredients, non-woven materials and packaging is of particular importance. The R&D team at Dr. Schumacher is forever working on new, high-performance solutions to be one step ahead of new market requirements and the competition.

As a manufacturer of pharmaceutical, medical, biocidal and cosmetic products, we at Dr. Schumacher can meet almost any requirement. From aqueous and alcoholic solutions to emulsions and oil baths to creams, ointments, gels and products

in powder form, we have the experience to deliver what you need. Thanks to the expertise of our teams in the individual departments and many years of interdisciplinary work, we have become a leader in new product innovations and further industry developments.

### The Dr. Schumacher Patent Seal

To underline the value and importance of innovation, research and expertise, Dr. Schumacher developed a special patent seal. This prioritizes the importance of technology transfer and securing the future.

Historically Dr. Schumacher's patent applications on products and technologies have been awarded, offering us and our customers immediate protection. We have patents pending and granted in numerous countries around the world, as well as various utility models, securing the exclusive right to use our inventions commercially. The registration of utility models and securing of patents require a particularly high degree of conformity to underlying requirements and quality standards. As a family business, we make a significant contribution to research, securing knowledge and protecting our future viability.



## UNIQUE FORMULATIONS

increase the effectiveness  
our products

## STATE-OF-THE-ART PACKAGING

improves compliance and  
makes everyday work easier

## VALIDATED PROCEDURES

ensure safe work at  
the highest levels

## INNOVATIVE PRODUCTS

promote  
public health

# CERTIFIED QUALITY FOR EVERY APPLICATION



FOR SAFE HYGIENE, EXPERT REPORTS CONFIRMING THE EFFECTIVENESS OF DISINFECTATION PRODUCTS ARE ESSENTIAL. WITH DR. SCHUMACHER, YOU CAN BE SURE THAT OUR PRODUCTS ALWAYS MEET THE HIGHEST APPLICABLE REQUIREMENTS. IN SOME AREAS WE EVEN GO BEYOND AND SET NEW STANDARDS.

**D**isinfection products must deliver what they promise - this is critical for the healthcare industry. We at Dr. Schumacher have been developing disinfection and hygiene solutions to the highest quality standards for over 40 years. We strictly follow European and German standards and regularly check whether our products continue to meet the newest European Norms (EN).

## Maintaining quality

European Norms (EN) define the requirements that chemical disinfectants and antiseptics must meet to be considered effective. Through these standardized test methods, product efficacy is guaranteed within the defined range of action (e.g. bactericidal, yeasticidal or virucidal). DIN EN 14885<sup>1</sup> defines the basic testing standards for approval and marketing of chemical disinfectants and antiseptics in both medical and non-medical products as well

as biocides. The standard specifies which EN test applies to the declaration of efficacy and must be independently verified in order to claim effectiveness.

Our new ULTRASOL OXY for surface disinfection goes above and beyond the currently required EN testing. This oxidative-based, high-level disinfectant is bactericidal, yeasticidal, mycobactericidal (including TB), fully virucidal and sporicidal according to the currently applicable European Norms. ULTRASOL OXY also meet the requirements prEN 17846:2022, the new EN test for sporicidal efficacy soon to be required in the European medical market. We are one of the first to be able to fulfill this claim.

Disinfectants have to withstand numerous variables in real world application. In a two-stage test process (phase 2 tests), laboratories confirm that disinfectants protect

health and hygiene in a simulated, real world application.

With a quantitative suspension test (Phase 2, Stage 1), a laboratory simulates in a test tube at room temperature whether the disinfectant is able to inactivate a specified number of test germs within a predefined time when adding a pollutant substance. The pollutant simulates dirt that may be found on a surface. The maximum exposure time is defined by how near or far the application area is from a patient and is stipulated in EN 14885.

In order to come closer to practical conditions, various surface and germ carrier tests (Phase 2, Stage 2) were developed. Disinfectants are applied to a surface, a germ carrier or the skin under practical conditions. For example, the 4-field test has been established for surface disinfection. Test results make it possible to compare disinfectants within Europe.



## TEST PHASE 2

**STEP 1**

**Quantitative suspension test with simulated practical condition**

**STEP 2**

**Quantitative test on surfaces or skin under simulated practical conditions**

## Product testing according to area of application

Spectrum of efficacy	Stage	Hygienic hand disinfection	Hygienic hand washing	Surgical hand disinfection or hand washing	Surface disinfection		Instrument disinfection
					Without mechanics (spray disinfection)	With mechanics (wipe disinfection disinfection)	
<b>bactericidal</b>	2,1	EN 13727	EN 13727	EN 13727		EN 13727	EN 13727
	2,2	EN 1500	EN 1499	EN 12791	EN 17387	EN 16615	EN 14561
<b>yeastcidal</b>	2,1	EN 13624	EN 13624	EN 13624		EN 13624	EN 13624
	2,2				EN 17387	EN 16615	EN 14562
<b>fungicidal</b>	2,1					EN 13624	EN 13624
	2,2				EN 17387	EN 16615 <sup>b</sup>	EN 14562
<b>tuberculocidal</b>	2,1	EN 14348	EN 14348			EN 14348	EN 14348
	2,2					EN 16615 <sup>b</sup>	EN 14563
<b>mycobactericidal</b>	2,1	EN 14348	EN 14348			EN 14348	EN 14348
	2,2					EN 16615 <sup>b</sup>	EN 14563
<b>limited virucidal</b>	2,1	EN 14476	EN 14476			EN 14476	
	2,2				EN 16777	In Anlehnung an EN 16615 <sup>b</sup>	EN 17111
<b>limited virucidal PLUS</b>	2,1	EN 14476	EN 14476			EN 14476	
	2,2	prEN 17430 <sup>b</sup>	prEN 17430 <sup>b</sup>		EN 16777	In Anlehnung an EN 16615 <sup>b</sup>	
<b>virucidal</b>	2,1	EN 14476	EN 14476			EN 14476	EN 14476
	2,2	prEN 17430 <sup>b</sup>	prEN 17430 <sup>b</sup>		EN 16777	In Anlehnung an EN 16615 <sup>b</sup>	EN 17111
<b>sporicidalC. diff.</b>	2,1					EN 17126	EN 17126
	2,2				prEN 17846 <sup>a</sup>		
<b>sporicidal</b>	2,1					EN 17126	EN 17126
	2,2				prEN 17846 <sup>a</sup>		

<sup>a</sup> The EN standard is not yet mandatory. After publication of the final version and inclusion in EN 14885, a transition period of 18 months apply

<sup>b</sup> The EN standard is currently in development

# WORKING TOGETHER TOWARDS **SUSTAINABLE HYGIENE**





## CHALLENGING TIMES REQUIRE PRAGMATIC SOLUTIONS AND URGENT ACTION. THAT'S WHY DR. SCHUMACHER WORKS CLOSELY WITH OUR PARTNERS TO IMPLEMENT THE HYGIENE OF THE FUTURE, TODAY!

**A**s a family business, we live in two worlds. We work locally, but operate globally – and you benefit from this too! We have been cooperating with suppliers all over the world for over 40 years and although not yet required, we already meet the requirements of the German Supply Chain Act. How did we do that? With consistent and well-thought-out supply management that EcoVadis has repeatedly awarded with a silver medal.



When it comes to a sustainable hygiene and disinfection, we want to share our expertise with you! You can be sure that our products are made with environmental protection in mind. Our main location runs on 100% green electricity, which is generated from renewable energy sources in the region. In 2018, we completed the construction of our new office building, which is state-of-the-art in terms of energy efficiency and uses only a minimum amount of electricity and energy. We redirect the heat generated during production and in our server rooms and use it to heat our buildings in the cold months. Excess water used in the production process doesn't simply end up in the drain, we process it and then use it to water the surrounding plants, trees and bushes on our property.

We work every day to further reduce our direct



and indirect environmental impact. You can read about this in our environmental statement, which has been certified according to the Eco-Management and Audit Scheme (EMAS) for the twelfth time in a row. In it, we analyze our CO<sub>2</sub> emissions, water and energy consumption year over year and examine where we can further improve.

As a family business, we attach great importance to our roots and the people around us. We develop new products and manufacture at our headquarters in central Germany, where our company was founded. Our region has given us a lot and we see it as our duty to give something back to the community. We support local clubs and non-profit organizations, making an important contribution to the people in our community. We must take action now to ensure that the health of future generations is protected. As a disinfection and wipes expert, we are committed to this and are always examining new

ways reduce the amount of plastic that is generated every day in hospitals and in our homes. Greater

recycling and reuse of packaging may be the difference in sustaining our industry and we support this approach. What's most important in our fight to make the health care industry more sustainable is cooperation! As a leader in our industry, we have decided to prioritize environmental protection to protect all our health in the future.







# PROTECTING **HEALTH AND THE ENVIRONMENT**

## Resources

AT DR. SCHUMACHER WE PRIORITIZE THE USE OF ECOLOGICALLY SAFE AND RENEWABLE MATERIALS WHEREVER ITS COMPATIBLE WITH HEALTH AND PRODUCT SAFETY - HELPING OUR CUSTOMERS AND THE INDUSTRY TO IMPLEMENT MORE ENVIRONMENTALLY FRIENDLY SOLUTIONS.

**E**ffective environmental protection does not just mean using fewer and fewer resources. We at Dr. Schumacher are convinced that more organic ingredients, environmentally friendly packaging, and other sustainability measures are essential to the future of the healthcare industry. We

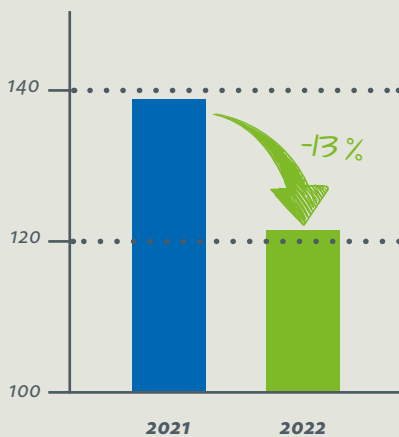
have already switched to renewable raw materials and recycled plastics where safe and possible with current regulations. We optimize much of our resource consumption through the 3 R principle – reduce, reuse, recycle. We also ensure that our suppliers use recycled versions of energy-intensive raw materials, like paper

and packaging films. Our manufacturing locations are committed to efficient use of important resources such as electricity or water. Our primary goal remains to make hygiene safe and easy to use - but also to ensure that it remains so in the future.

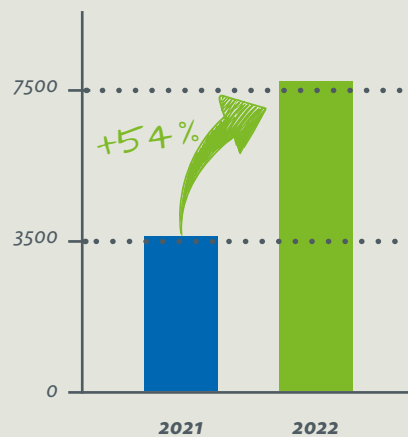




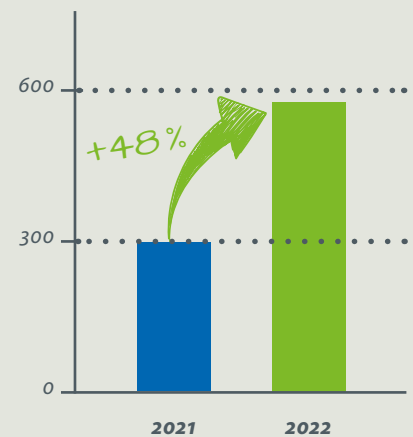
**Plastic consumption in our bottles (in tons)**



**Biodegradable fleece in products (in tons)**



**Recycled plastic flowpack foils (in tons)**



### Making tomorrow today

Last year we switched our 500ml bottles to a 13% lighter version without compromising stability or structural integrity. We have already saved over 18 tons of plastic and expect that number to grow per year! That's roughly the weight of a tower credit cards stacked as high as the Zugspitze (approx. 3.000 m) – the highest mountain peak in Germany. We now deliver almost all hand hygiene products in our portfolio in reduced-plastic bottles. This not only reduces the amount of plastic used, but reduces CO<sub>2</sub> emissions in the supply chain as a result of the reduced weight.

Dr. Schumacher is leading the way in our industry with use of environmentally friendly ingredients and materials. Our DESOTEX organic fleece, which can be found in DESCOSEPT SENSITIVE WIPES Bio, is biodegradable and made from 100%

renewable raw materials, allowing for alternative disposal methods. Additionally, the structure of the organic fleece material brings with it additional performance benefits such as better cleaning performance and an extended range of coverage over other products that use traditional polyester blends. This not only saves time in the application, but also materials. We have more than doubled our use of DESOTEX organic fleece in the past two years. Almost every second wipe at our facilities in Poland is now made from DESOTEX organic fleece. We've also switched to 100% organic ethanol for all of our disinfectants.

### Extending the lifecycle

As the EU's largest wipes producer, we use a significant amount of plastic film in our packaging. We prioritize the use of recyclable films, so-called mono-composite

films, as well as films made from post-industrial and post-consumer recycle and. What sounds like a simple switch is not always easy to implement. We have to ensure that the more ecologically made plastics still meet our standards and ensure the safety and effectiveness of the products. We've managed to increase the proportion of recyclable films to 60% in the last two years and are already planning to use 80% mono-composite films by the end of 2024.





**ULTRASOL OXY®**

**sporicidal**

**virucidal**

**fungicidal**

**bactericidal**

**yeasticidal**

**tuberculocidal**

**mycobactericidal**

**coronavirus**

**norovirus**

**adenovirus**

# ULTRA FAST ULTRA EFFECTIVE **ULTRASOL OXY®** ULTRA EASY



**Universal  
application**

Medical device and surface disinfection

ULTRASOL OXY IS AN INNOVATIVE, COMPREHENSIVELY  
EFFECTIVE AND ECONOMICAL PRODUCT FAMILY FOR  
DISINFECTION OF MEDICAL DEVICES AND SURFACES  
OF ALL KINDS.

**Sporicidal in 5 minutes!**

**Comprehensive efficacy for your toughest requirements!**

**Gentle on materials and the environment!**

**W**ith the ULTRASOL OXY family, Dr. Schumacher offers an excellent and innovative product range based on peracetic acid and hydrogen peroxide. ULTRASOL OXY products have a comprehensive spectrum of efficacy, including sporicidal. This makes them not only good for routine disinfection in high risk areas, but also ideal for cases of outbreak. The extraordinary material compatibility and extremely fast exposure times guarantee efficiency and user-friendliness. With this sustainable solution, Dr. Schumacher meets both the highest hygiene and environmental standards.

#### **Reliably disinfection for all scenarios**

Due to their comprehensive spectrum of efficacy, ULTRASOL OXY products are very well suited for the universal and time-saving disinfection of surfaces and medical devices of all kinds. ULTRASOL OXY can be used flexibly and economically, both in routine disinfection and in event of an outbreak. This avoids the need for storage and use of a second preparation.

#### **Easy application**

ULTRASOL OXY is ideal for all areas where maximum effectiveness, high user safety and good cleaning performance are required. The short exposure times mean

that surfaces can be reused quickly. The products are particularly recommended for environments in which the highest disinfection requirements must be guaranteed.

#### **Environmentally friendly ingredients**

ULTRASOL OXY consists of 99% biodegradable active ingredients. The active ingredients peracetic acid and hydrogen peroxide break down into oxygen, water and vinegar, which are ecologically harmless. The products are also phenol and aldehyde free and have no carcinogenic properties.

ULTRASOL OXY has excellent material compatibility and product compatibility

#### **High-level infection prevention**

Surfaces and medical devices in particular are very high contact zones and require careful cleaning and disinfection. The active ingredients peracetic acid and hydrogen peroxide used in the ULTRASOL OXY products disinfect medical devices and surfaces of all kinds quickly and reliably, reducing the risk of infection to patients and medical personnel.





# CLARITY IN **DISINFECTION**



**1** Our packaging design has embodied our product quality for years.

## New Image

OUR PRODUCTS PROTECT PEOPLE'S HEALTH. DR. SCHUMACHER OFFERS A WIDE RANGE OF PRODUCTS WITH VARIOUS EFFICACIES TO MEET YOUR MANY REQUIREMENTS. THIS ALLOWS US, AND YOU, TO MEET EACH CHALLENGE IN THE HEALTH SECTOR EASILY AND SAFELY.



**2** And now has a new, clean appearance

**W**ith the roll out of our new logo, we are also moving forward with the new packaging designs and labels. You will notice a cleaner, modern design of our products that is reduced to the essentials for easier and safer use - just like the formulations in our products. This ensures the efficient use of a wide variety of products and reduces distractions.

#### Proper Application at a Glance

Our new packaging designs make it even easier to see the field of application for our products and which spectrum of efficacy they offer. On the left hand side of the label, a color marking the product family indicates the area of application. You may notice that some of the product category colors have changed. We are harmonizing

our labeling with established product category colors already seen in the market: In the near future, our portfolio for surface disinfection will be dark, rich green.

The intended application area is also shown more clearly on the packaging with new icons on the labels. The individual icons support users in quickly identifying the area of application and makes it easier to identify the correct use at a glance.

#### Efficacy Level Immediately Recognizable

On the right side of the label, a separate color area references the level of efficacy offered by the product. Based on our **Prevent**, **Preserve** and **Protect** spectrum, this second color allows users to quickly select the appropriate disinfection level for

each situation. The changeover to our new packaging design will take place step by step and will certainly take some time. You can find out which spectrum of efficacy is suitable for your area in this catalog (see page 20).

#### Clarity in Hygiene

Our goal is safe hygiene that is easy to use and can be universally applied. Only then can we prevent avoidable infections in hospitals and other professional areas. With the new packaging designs, Dr. Schumacher is taking another step towards making it easier to maintain proper hygiene in the healthcare sector, thereby reducing unnecessary nosocomial infections.

## PREVENT

### Spectrum of Efficacy<sup>1</sup>

- Bactericidal
- Yeastidal
- All enveloped viruses

### Relevant viruses

- HBV
- HCV
- HIV
- Corona and influenza viruses



**ASEPTOMAN®**  
Alcoholic hand disinfectant

## PRESERVE

### Spectrum of Efficacy<sup>1</sup>

- Bactericidal
- Yeastidal
- All enveloped viruses
- Noro-, Rota- und Adenoviruses
- Tuberculocidal

### Relevant viruses

- HBV, HCV, HIV, Corona and Influenza viruses
- Noro-, Rota- und Adenoviruses



**ASEPTOMAN® MED**  
Alcoholic hand disinfectant

## PROTECT

### Spectrum of Efficacy<sup>1</sup>

- Bactericidal
- Yeastidal
- Fully virucidal
- Tuberculocidal
- Sporocidal

### Relevant viruses

- HBV, HCV, HIV, Corona- and Influenza viruses
- Noro-, Rota- und Adenoviruses
- ECHO-, Coxsackie-, Rhino-, Picoma- and Papilomaviruses
- Papillom viruses



**ASEPTOMAN® FORTE**  
Alcoholic hand disinfectant

### PREVENT PRESERVE PROTECT

hygienic hand disinfection	30 s	–	–
surgical hand disinfection	1,5 min	–	–

### PREVENT PRESERVE PROTECT

hygienic hand disinfection	30 s	30 s	–
surgical hand disinfection	2 min	2 min	–

### PREVENT PRESERVE PROTECT

hygienic hand disinfection	30 s	30 s	30 s
surgical hand disinfection	1,5 min	1,5 min	1,5 min

ASEPTOMAN found on [page 58](#)

ASEPTOMAN MED found on [page 58](#)

ASEPTOMAN FORTE found on [page 60](#)

<sup>1</sup> Dr. Schumacher hygiene levels are based on general efficacy groupings. For specific product efficacy information, please consult the product information sheet or label.

<sup>2</sup> Not all Protect level products are effective against mycobacteria. Please check the product information sheet or label for specific efficacies and contact times.

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

# COLOR-CODED EFFICACY INDICATORS

Safety Made Simple at Dr. Schumacher

EVEN BEFORE COVID, VIRUSES WERE ONE OF THE MANY PATHOGENS THAT CAUSE SERIOUS DISEASES, ESPECIALLY IN OLDER AND IMMUNO-COMPROMISED PEOPLE. **VIRAL PATHOGENS ARE RESPONSIBLE FOR THE MAJORITY OF NOSOCOMIAL OUTBREAKS** IN HEALTHCARE AND ELDER CARE FACILITIES.

**V**iruses can be divided into two categories: enveloped and non-enveloped. Enveloped viruses, including the corona virus, can be easily inactivated due to an outer wall that is easily penetrated by chemical substances. Non-enveloped viruses, such as the noro or coxsackie viruses, are more difficult for chemicals to penetrate. Noro-, rota- and adenoviruses are responsible for the majority of outbreaks. According to a study by the Robert Koch Institute from 2016, 74% of all nosocomial outbreaks are caused by noroviruses alone. On the scale of penetrability, noroviruses fall somewhere between enveloped and non-enveloped viruses.

## Efficacy Spectrums

Dr. Schumacher's color coding helps quickly identify the level of efficacy offered by each product – Blue for Prevent, Green for Preserve and Red for Protect hygiene levels. For specific product efficacy information, it is still important to consult the product information sheet or label as concentrations and contact times vary between products.

## Prevent Level

Disinfectants at our Prevent level are primarily for use in the public areas of healthcare facilities. Their spectrum of efficacy is sufficient for low risk areas like entrances, waiting rooms and corridors and prevent unnecessary infections in visitors and otherwise healthy people. Efficacies include bactericidal, yeasticidal and all enveloped viruses such as HIV, corona and influenza viruses.

## Preserve Level

The Preserve level is ideal for environments with higher demands on disinfection and hygiene for patient safety. The risk of infection increases in treatment rooms and general wards, which means that stronger disinfectants with additional efficacies like noro-, rota- and adenoviruses and tuberculocidal, are required. In these near patient areas, it is critical to preserve the health of patients and hospital staff.

## Protect Level

The Protect level identifies disinfectants with the highest efficacy spectrums. These

products are used in isolated areas of medical facilities such as intensive care units or oncology and are also appropriate for general use in case of outbreaks. Protect level products minimize the risk of patients acquiring additional infectious diseases, thereby protecting people's health. Protect level products offer broad and comprehensive efficacies adding mycobactericidal, fully virucidal and sporicidal to their claims.<sup>2</sup>

## Hygiene Levels in the Catalogue

Most of the products in this catalog are color-coded to match our hygiene levels, which allows you to identify the efficacy spectrum at a glance. Product specific tables also include contact times and dosage recommendations based on realistic and practical product applications.



# ADDED SAFETY IN FOOD PREPARATION: **HAZARD ANALYSIS CRITICAL CONTROL POINT (HACCP)**

Hygiene in the Food Industry

IN ADDITION TO GUARANTEEING FOOD SAFETY, HACCP HYGIENE CONCEPTS ARE PARTICULARLY IMPORTANT TO CONSUMER HEALTH. THEY DESCRIBE SAFETY SYSTEMS IN THE FIELD OF FOOD HANDLING AND PROCESSING, HIGHLIGHTING POTENTIAL DANGERS AND RISKS FOR CONSUMERS.

**H**ACCP concepts offer the ability to better control and monitor production in the food industry at corresponding key points, reducing health risks to consumers. HACCP stands for Hazard Analysis Critical Control Points.

## Contents and Goals of a HACCP Concept

The goal of an HACCP concept is to systematically identify possible risks in the handling of food for companies in the food processing industry. And once identified, to evaluate and mitigate those risks accordingly.

The seven principles of an HACCP concept form the basis of successful food safety.

1. Conduct a hazard analysis
2. Identify critical control points (CCP)
3. Establish critical limits for each critical control point
4. Establish critical control point monitoring requirements
5. Establish corrective actions
6. Establish record keeping procedures
7. Establish verification procedures

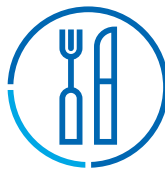
## HACCP Conformity at Dr. Schumacher

Comprehensive and effective cleaning and disinfection form the base for high level food safety. Dr. Schumacher's product portfolio provides professional recommendations for all food processing industries and companies.

With our HACCP-compliant products, we help companies in the food industry to achieve the highest level of safety for all their hygiene-related requirements, strengthening hygiene practices when handling food.

## Advantages of our HACCP-compliant products

1. Improved consumer protection
2. High food safety
3. Transparent production processes
4. Increased compliance in quality management
5. Adherence to legislative requirements
6. Transparent production processes



### DESCOCEPT SENSITIVE PRODUCT FAMILY



### ULTRASOL® ACTIVE

### ULTRASOL OXY® PRODUCT FAMILY



### ASEPTOMAN® MED

### DESCOLIND PURE WASH



## RECOMMENDED PRODUCTS

### HACCP Compliant Cleaning and Disinfection

Our products that currently comply with HACCP guidelines, are the results of the successful combination of efficient work and professional expertise.

Product	Page
<b>Ready-to-Use Surface Disinfection</b>	
DESCOCEPT SENSITIVE	29
DESCOCEPT PUR	30
ULTRASOL OXY®	31
<b>Concentrates for surface disinfection</b>	
ULTRASOL® ACTIVE	35
<b>Ready-to-Use Disinfection Wipes</b>	
DESCOCEPT SENSITIVE WIPES	40
DESCOCEPT SENSITIVE WIPES XL	42
DESCOCEPT PUR WIPES RTU	42
ULTRASOL OXY® WIPES	44
<b>Hand Disinfection</b>	
ASEPTOMAN® MED	59
<b>Hand Cleansing, Care and Protection</b>	
DESCOLIND PURE WASH	72
DESCOLIND PURE LIGHT CREAM	72
DESCOLIND PURE INTENSIVE CREAM	73
DESCOLIND EXPERT INTENSIVE CREAM	75
DESCOLIND EXPERT PROTECT CREAM	75



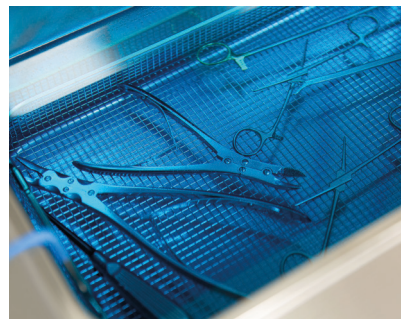
## SURFACE

**26**RAPID DISINFECTION**32**CONCENTRATES FOR  
SURFACE DISINFECTION**36**RAPID DISINFECTION  
WIPES**46**DRY WIPE SYSTEMS

## HAND AND SKIN

**52**DECONTAMINATION**56**HAND DISINFECTION**62**SKIN DISINFECTION**66**CLEANSING, CARE  
AND PROTECTION

## INSTRUMENTS

**76**MANUAL REPROCESSING**86**AUTOMATED REPROCESSINGINSTRUMENT MAINTENANCE



## APPLICATION AIDS



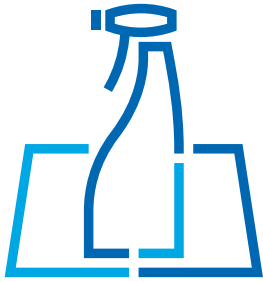
96

## WALL DISPENSERS AND DOSAGE AIDS



**SURFACE**

# Rapid Disinfection



## Efficient routine disinfection

Whether targeted or routine disinfection: ready-to-use solutions from Dr. Schumacher make disinfecting small, medium and large areas simple and quick. Whether alcohol based or alcohol-free, these ready-to-use disinfectants are suitable for both spraying and wiping, offering a time-saving solution for medical area as well as for the food sector and commercial kitchens.





	Application Method			Properties			Active Ingredients			Spectrum of Activity										Listing
	Wipe disinfection	Rapid disinfection	Cleaning	Alcoholic	Alcohol-free	Perfume-free	QAV	Peracetic acid	Hydrogen peroxide	Ethanol	Bactericidal	Yeasticidal	Fungicidal	Tuberculocidal	Sporicidal	Active against enveloped viruses	Rota, Adeno and Noro-viruses	Virucidal	HACCP	
DESCOSEPT SPEZIAL	•	•	•		•	•	•				•	•				•				
DESCOSEPT SENSITIVE	•	•	•	•		•				•	•	•		•		•	•		•	
DESCOSEPT PUR	•	•	•	•		•				•	•	•		•		•	•		•	
ULTRASOL OXY®	•	•	•		•	•		•	•		•	•	•	•	•		•	•	•	

Please refer to the product information sheet (PIF) for complete information on the spectrum of activity.

## PREVENT



  
Foam application  
to prevent aerosols

## DESCOCEPT SPEZIAL

### Alcohol-free rapid disinfection

- Designed for alcohol-sensitive surfaces and medical devices
- Short contact times allow for rapid re-use of the surfaces
- Cleaning and disinfection in only one step
- Ideal for surfaces made of transparent plastics
- Can be used for inventory and surfaces in fitness studios, tanning salons and vehicles

DESCOCEPT SPEZIAL is an alcohol-free, ready-to-use solution for disinfection and cleaning of medical inventory, medical devices and all kinds of surfaces. Especially for alcohol-sensitive medical devices and surfaces, also suitable for acrylic glass. Based on quaternary ammonium compounds, DESCOCEPT SPEZIAL is alcohol-free, contains neither aldehydes or phenols, nor perfums.

Spectrum of efficacy and contact time			
	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection with and without mechanical action	1 min		

Composition – 100 g solution contain			
0,5 g Alkyl (C12-16) dimethylbenzyl ammonium chloride			
0,25 g Didecylidimethyl ammonium chloride			

Single Unit	Unit	Content	REF
spray bottle	6	750 ml	00-208-0075E
bottle	10	1 L	00-208-010E
canister	3	5 L	00-208-050E

*Prevent – Bactericidal, yeasticidal, all enveloped viruses* *Preserve – Bactericidal, yeasticidal, all enveloped viruses, Noro-, Rota- and Adenoviruses, tuberculocidal* *Protect – Bactericidal, yeasticidal, fully virucidal, tuberculocidal, sporicidal.*  
Use disinfectants safely. Always read the label and product information before use.

## PRESERVE



HACCP

## DESCOCEPT SENSITIVE

### Alcoholic rapid disinfectant

- Efficient disinfection and cleaning performance
- Wide range of applications for daily work
- Very good material compatibility with low ethanol content
- Suitable for disinfecting fitness equipment and vehicle interiors
- Ideally suited for use in the food industry

DESCOCEPT SENSITIVE is a ready-to-use, alcohol-based rapid disinfectant based on ethanol for gentle disinfection and cleaning of medical devices and medical equipment as well as surfaces of all types. The product is particularly suitable for near patient areas in which a broad spectrum of activity is required. In addition to effective disinfection within a very short time, the product has a very good material compatibility.

### Spectrum of efficacy and contact time

	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection with and without mechanical action	2 min	3 min	
Application recommendation for tuberculocidal surface disinfection with and without mechanical action		1 min	

Composition – 100 g solution contain			
45 g Ethanol			

Single Unit	Unit	Content	REF
spray bottle	6	750 ml	00-323DS-0075-02E
bottle	10	1 L	00-323DS-010E
canister	3	5 L	00-323DS-050E

# Best in class material compatibility



## Time saving application

The **DESCOSEPT SENSITIVE** product family for rapid disinfection is available in different, easy-to-use applications for maximum flexibility. The portfolio is created for convenient and time-saving application in routine disinfection for all areas.

## Extensive efficacy

**DESCOSEPT SENSITIVE** offers a comprehensive efficacy with the shortest possible contact times in the mid-level range. Coronaviruses and Noroviruses are inactivated within 1 minute. It also offers excellent material compatibility. The **DESCOSEPT SENSITIVE** family, with its carefully balanced, low alcohol formula, is appropriate for disinfection of a wide range of materials and surfaces - including displays, control panels or stethoscopes to name a few.





Very good residue behavior

**PRESERVE**

**NEW**

**PROTECT**



HACCP

## DESCOSEPT PUR

### Alcoholic rapid disinfectant

- Broad spectrum of activity - limited virucidal PLUS within 5 min.
- Dries without leaving any residue
- Well suited for use in for the food industry and kitchens
- Color and perfume-free
- Maximum infection prevention for offices

DESCOSEPT PUR is a ready-to-use, aldehyde-free rapid disinfectant based on ethanol for a rapid and effective disinfection of medical inventory, medical devices as well as all kinds of surfaces. Especially suitable for difficult to reach surfaces, DESCOSEPT PUR is perfume and residue-free. It is therefore ideal for rapid disinfection in the food industry and in canteen kitchens.

#### Spectrum of efficacy and contact time

	<b>PREVENT</b>	<b>PRESERVE</b>	<b>PROTECT</b>
Application recommendation for surface disinfection with and without mechanical action	5 min	5 min	
Application recommendation for tuberculocidal surface disinfection		30 sek	

#### Composition – 100 g solution contain

45 g Ethanol

Single Unit	Unit	Content	REF
bottle	12	1L	00-323-010E
canister	3	5L	00-323-050E



For final disinfection of semi-critical medical devices

HACCP

## ULTRASOL OXY®

### Sporicidal rapid disinfection based on oxidative components

- Full spectrum of activity including virucidal and sporicidal activity according to current standards
- Effective against *Clostridioides difficile* within 5 min (EN 17126)
- Compatible with almost all materials
- No toxic or hazardous residues
- Suitable for use in the food sector

ULTRASOL OXY is a high-level, ready-to-use disinfectant with an excellent spectrum of activity against bacteria and viruses including spores. The oxidative-based rapid disinfectant is used for disinfecting and cleaning medical devices, medical inventory and surfaces in areas with increased efficacy requirements. ULTRASOL OXY ensures, due to its very good material compatibility, that it can be applied to almost all materials and leaves no toxic and environmentally harmful residues on the surface.

#### Spectrum of efficacy and contact time

	<b>PREVENT</b>	<b>PRESERVE</b>	<b>PROTECT</b>
Application recommendation for surface disinfection with and without mechanical action	1 min	1 min	5 min
Application recommendation for tuberculocidal surface disinfection with and without mechanical action			5 min
Application recommendation for sporicidal surface disinfection with and without mechanical action			15 min

#### Main active ingredients – 100 g solution contain

7 g Hydrogen Peroxide  
0,1 g Peracetic Acid

Single Unit	Unit	Content	REF
bottle	6	2L	00-270-020



# ULTRASOL OXY®

## THE DISINFECTANT FOR YOUR HIGHEST DEMANDS

**Universal  
application**

### ULTRA Compatible

compatible with nearly all materials

### ULTRA Effective

offers a complete spectrum of efficacy incl. fully sporicidal

### ULTRA Fast

effective against spores in 5 minutes (EN 17126)

### ULTRA Safe

no toxic byproducts or residues

### ULTRA Easy

ready-to-use disinfectant for semi-critical medical devices, surfaces and other medical inventories





**SURFACE**

# Concentrates for Surface Disinfection



## **Highly effective and gentle on materials**

From hospital hallways to other large areas in public institutions – Dr. Schumacher concentrates clean and disinfect large areas economically. These comprehensively effective cleaning and disinfectant concentrates are compatible with most materials and safe for routine and outbreaks.





	Application Method		Properties			Active Ingredients		Spectrum of Activity										Listing
	Wipe disinfection	Cleaning	Alcoholic	Alcohol-free	Perfume-free	QAV	Alkylamines	peracetic acid	Bactericidal	Yeasticidal (C. albicans)	Fungicidal	tuberculocidal	Sporicidal	Active against enveloped viruses	Rota, Adeno and Noro-viruses	Virucidal	HACCP	
CLEANISEPT®	•	•		•	•	•			•	•				•				
OPTISAL® N	•	•		•			•		•	•		•		•				
OPTISAL® PLUS	•	•		•	•	•	•		•	•	•	•		•	•			
ULTRASOL® ACTIVE	•	•		•	•			•	•	•	•	•	•	•	•	•	•	

Please refer to the product information sheet (PIF) for complete information on the spectrum of activity.

**PREVENT****PREVENT****CLEANISEPT®**

Liquid concentrate for surface disinfection and cleaning

- **Cleaning and disinfection in one step**
- **Good material compatibility with alcohol-sensitive surfaces**
- **Color and perfume-free**
- **Suitable for cleaning and disinfecting fascia rolls**

CLEANISEPT is a combination preparation for disinfecting and cleaning non-invasive medical devices as well as large surfaces. CLEANISEPT is based on quaternary ammonium compounds. It is perfume-free, contains neither aldehydes nor phenols and is characterized by good cleaning strength. CLEANISEPT is perfectly suited to surface disinfection of washable non-porous surfaces. It is ideal for areas in which odor nuisance must be avoided, in addition to meeting high hygienic standards. CLEANISEPT has good material compatibility and is also suitable for acrylic glass.

**OPTISAL® N**

Liquid concentrate for surface disinfection and cleaning

- **Excellent material compatibility**
- **High-performance cleaning and disinfection**
- **Pleasant, fresh scent**
- **No residual adhesive effects - QAC-free**
- **Ideal for disinfecting and cleaning PVC and linoleum floors**

OPTISAL N is an user-friendly concentrate for disinfection and cleaning of non-invasive medical devices, medical inventory and all kinds of surfaces. The product has a remarkably high cleaning power. Moreover, it has a fresh and pleasant scent, and is aldehyde and phenol-free. Due to its QAC (quaternary ammonium compounds)-free formulation, adhesive effects on treated surfaces are avoided. The use of OPTISAL N is especially recommended for all areas where, in addition to compliance with high hygienic demands, avoidance of unpleasant odors is required. Well suited for use on PVC/linoleum-floors.

**Spectrum of efficacy and contact times**

	<b>PREVENT</b>	<b>PRESERVE</b>	<b>PROTECT</b>
Application recommendation for surface disinfection	2,5 % – 15 min 1 % – 60 min		

**Composition – 100 g solution contain**

6,66 g alkyl (C12-16) dimethylbenzylammonium chloride  
3,33 g didecylidimethylammonium chloride

Single Unit	Unit	Content	REF
dosage bottle	10	1 L	00-204-010E
bottle	6	2 L	00-204-020-01E
canister	3	5 L	00-204-050E

**Spectrum of efficacy and contact times**

	<b>PREVENT</b>	<b>PRESERVE</b>	<b>PROTECT</b>
Application recommendation for surface disinfection	1 % – 15 min 0,5 % – 60 min		

Application recommendation for tuberculocidal surface disinfection	0,5 % – 60 min
--	----------------

**Composition – 100 g solution contain**

7,2 g N-(3-Aminopropyl)-N-dodecylpropan-1,3-diamine

Single Unit	Unit	Content	REF
dosage bottle	10	1 L	00-214-010E
canister	3	5 L	00-214-050E

**PRESERVE****PROTECT**

HACCP

**OPTISAL® PLUS**

Liquid concentrate for surface disinfection and cleaning

- Suitable for use with hard-water
- Broad spectrum of efficacy
- Well suited for alcohol-sensitive surfaces
- High cleaning and disinfection performance for various industrial sectors

OPTISAL PLUS is a liquid concentrate for disinfection and cleaning of near-patient surfaces as well as non-invasive medical devices. OPTISAL PLUS is characterised by an excellent cleaning performance and a range of efficacy specially designed for routine applications. In addition to its effectiveness against enveloped viruses (HBV, HIV, HCV), OPTISAL PLUS is highly effective against adenovirus, norovirus and rotavirus. OPTISAL PLUS also offers bactericidal, levurocidal and tuberculocidal activity. OPTISAL PLUS is perfume-free and odorless.

**Spectrum of efficacy and contact times**

	<b>PREVENT</b>	<b>PRESERVE</b>	<b>PROTECT</b>
Application recommendation for surface disinfection	2,5 % – 5 min 0,5 % – 60 min	2 % – 30 min 1 % – 60 min	
Application recommendation for tuberculocidal surface disinfection		1,5 % – 60 min	

**Composition – 100 g solution contain**

7,2 g N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

6,6 g alkyl(C12-16)dimethylbenzylammonium chloride

2,3 g didecylmethylammonium chloride

Single Unit	Unit	Content	REF
sachet	200	20 ml	00-245-0002E
dosage bottle	10	1 L	00-245-010E
canister	3	5 L	00-245-050E

**ULTRASOL® ACTIVE**

Powder concentrate for surface disinfection

- Reliable, high-level disinfections for routine and break out scenarios
- Full spectrum of efficacy
- Very good material compatibility
- Excellent compatibility with other disinfecting agents
- Suitable for final disinfection of sensitive medical devices

ULTRASOL ACTIVE is a highly effective powder concentrate that offers an excellent spectrum of activity for disinfecting and cleaning all types of surfaces. ULTRASOL ACTIVE is a practically dust-free powder that can be dosed very easily and reliably. ULTRASOL ACTIVE is suitable for surface disinfection where increased efficacy is needed in routine use and for disinfection in the event of an epidemic. Due to the active ingredient peracetic acid generated in the mildly alkaline application solution, the product offers a comprehensive spectrum of activity, excellent material compatibility and good cleaning performance. The efficacy of ULTRASOL ACTIVE is guaranteed even with high organic loads and dried blood loads can be removed effortlessly and safely.

**Spectrum of efficacy and contact times**

	<b>PREVENT</b>	<b>PRESERVE</b>	<b>PROTECT</b>
Application recommendation for surface disinfection	1 % – 5 min 0,5 % – 15 min	1 % – 5 Min 0,5 % – 15 Min	2 % – 15 min 1 % – 60 min
Application recommendation for tuberculocidal surface disinfection		2 % – 15 min, 1 % – 60 min	
Application recommendation for sporicidal surface disinfection		2 % – 15 min, 1 % – 30 min	

**Composition – 100 g solution contain**

Active substance: > 750 ppm peracetic acid generated from tetraacetylenediamine (250 g/kg) and sodium percarbonate (450 g/kg). The active substance is released when the product is dissolved in water (in-situ, 10 g/l for a 1 % solution)

Single Unit	Unit	Content	REF
sachet	100	40 g	00-255-0004
can (incl. measuring spoon)	6	1 kg	00-255-010

*Prevent* – Bactericidal, yeasticidal, all enveloped viruses *Preserve* – Bactericidal, yeasticidal, all enveloped viruses, Noro-, Rota- and Adenoviruses, tuberculocidal *Protect* – Bactericidal, yeasticidal, fully virucidal, tuberculocidal, sporicidal.  
Use disinfectants safely. Always read the label and product information before use.

**SURFACE**

# Rapid Disinfection Wipes



## **For small to medium surface disinfection**

Ready-to-use disinfectant wipes from Dr. Schumacher are optimal for quick cleaning and disinfections of a wide range of surfaces, medical devices and other medical inventories. Whether small or large areas, ultrasounds, patient beds, food prep areas or sports equipment – our wipes are available in multiple sizes for all situations. We use various non-woven materials combined with Dr. Schumacher's proprietary disinfectant formulations to create the right disinfectant wipe for all your needs. You have the choice between our DESOTEX and DESOTEX Bio fleece materials, which both clean efficiently and are gentle on surfaces.





	Application Method		Properties			Active Ingredients			Spectrum of Activity								Listing
	Rapid disinfection	Cleaning	Alcoholic	Alcohol-free	Perfume-free	QAV	Peracetic acid	Hydrogen peroxide	Bactericidal	Yeasticidal (C. albicans)	Tuberculocidal	Sporicidal	Active against enveloped viruses	Rota, Adeno und Noro-viruses	Virucidal	HACCP	
CLEANISEPT® WIPES	•	•		•	•	•			•	•			•				
CLEANISEPT® WIPES MAXI	•	•		•	•	•			•	•			•				
DESCOCEPT SPEZIAL WIPES	•	•		•	•	•			•	•			•				
DESCOCEPT SENSITIVE WIPES	•	•	•		•				•	•	•		•	•			•
DESCOCEPT SENSITIVE WIPES XL	•	•	•		•				•	•	•		•	•			•
DESCOCEPT PUR WIPES RTU	•	•	•		•				•	•	•		•	•			•
CLEANISEPT® WIPES FORTE	•	•		•	•	•			•	•			•	•	•		
CLEANISEPT® WIPES FORTE MAXI	•	•		•	•	•			•	•			•	•	•		
ULTRASOL OXY® WIPES	•	•		•	•		•	•	•	•	•	•	•	•	•		•
ULTRASOL OXY® WIPES XL	•	•		•	•		•	•	•	•	•	•	•	•	•		•

Please refer to the product information sheet (PIF) for complete information on the spectrum of activity.



PREVENT



PREVENT



## CLEANISEPT® WIPES

Alcohol-free wipes for rapid disinfection

- Universal, comfortable and quick application using a practical dispenser
- Basic, rapid efficacy
- For disinfection of ultrasound probes for abdominal examinations
- Ideal for travel

CLEANISEPT WIPES are alcohol-free, ready-to-use disinfection wipes for rapid disinfection and cleaning of medical devices and medical equipment. CLEANISEPT WIPES enable a quick and easy application, particularly for disinfecting and cleaning ultrasound probes without mucous membrane contact. These wipes are alcohol, aldehyde and phenol-free. The wipes can be removed individually from the practical and resealable dispenser.

### Spectrum of efficacy and contact times

	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection	1 min		

### Composition – 100 g solution contain

0,5 g Alkyl(C12-16) dimethylbenzylammoniumchlorid

0,25 g Didecylidimethylammoniumchlorid

Single Unit	Unit	Content	Size	REF
dispenser box	12	100 wipes	14 x 20 cm	00-208-D100-01E
refill pack	12	100 wipes	14 x 20 cm	00-208-R100-01E

*Prevent* – Bactericidal, yeasticidal, all enveloped viruses *Preserve* – Bactericidal, yeasticidal, all enveloped viruses, Noro-, Rota- and Adenoviruses, tuberculocidal *Protect* – Bactericidal, yeasticidal, fully virucidal, tuberculocidal, sporicidal. Use disinfectants safely. Always read the label and product information before use.



## CLEANISEPT® WIPES MAXI

Alcohol-free wipes for rapid disinfection

- Universal, comfortable and time-saving application
- Basic, rapid efficacy
- For disinfection of medium-sized surfaces in routine areas
- Suitable for disinfecting high-touch surfaces in public areas

CLEANISEPT WIPES MAXI are ready to use wipes for rapid disinfection and cleaning of medical devices and medical inventory as well as all kind of surfaces in all areas of the routine. CLEANISEPT WIPES MAXI offer a universal and time-saving application for the disinfection and cleaning of medium-sized surfaces. The solution is alcohol, aldehyde and phenol-free and extremely gentle on materials. The wipes can be extraxted individually from the re-sealable and user-friendly flowpack. User-friendly flowpack with 90 days shelf life after opening.

### Spectrum of efficacy and contact times

	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection	1 min		

### Composition – 100 g solution contain

0,5 g Alkyl(C12-16) dimethylbenzylammoniumchlorid

0,25 g Didecylidimethylammoniumchlorid

Single Unit	Unit	Content	Size	REF
flowpack	6	100 wipes	20 x 22 cm	00-208-T100E

## PREVENT



## DESCOCEPT SPEZIAL WIPES

Alcohol-free wipes for rapid disinfection

- Universal, comfortable and timesaving application in a dispenser bucket
- Basic, rapid efficacy
- For disinfection of large surfaces in routine areas
- Ideal for disinfecting gym equipment

DESCOCEPT SPEZIAL WIPES are alcohol-free, ready-to-use Wipes for rapid disinfection and cleaning of medical devices and medical inventory as well as all kind of surfaces in all areas of the routine. DESCOCEPT SPEZIAL WIPES offer a universal and time saving application for the disinfection and cleaning of large surfaces. The wipes can be extracted individually from the wipes dispenser system with the re-sealable lid. Each refill pack comes with an ULTRASOL OXY SACHET to ensure proper, manual reprocessing before refilling the dispenser.

## Spectrum of efficacy and contact times

Application recommendation  
for surface disinfection

**PREVENT** PRESERVE PROTECT

1 min

## Composition – 100 g solution contain

0,5 g Alkyl(C12-16) dimethylbenzylammoniumchlorid

0,25 g Didecylmethylammoniumchlorid

Single Unit	Unit	Content	Size	REF
dispenser and roll	1	100 wipes	30 x 32 cm	00-208-ERS100-01E
refill pack	2	100 wipes	30 x 32 cm	00-208-RS100-01E

## Contact times for surface disinfection

Compliance with contact times is essential to ensure successful hygiene with surface disinfection. According to the Robert Koch Institute, routinely disinfected surfaces can be used again once they are visibly dry. There are, however, exceptions for which the contact time for surface disinfection must be observed.

### What is the one-hour value?

With the one-hour value, concentrates are dosed in such a way that the solution becomes effective after a contact time of one hour. This value is used in high risk areas in particular. It is important to note that once the disinfected surface is visibly dry, it can be used again irrespective of the one-hour contact time. Most microorganisms are inactivated at the start of the contact time.

### In which situations must the given contact time be observed before the surface can be reused?

- With targeted disinfection when there is a risk of germ transmission from a surface to a patient
- With final disinfection
- When reprocessing medical devices
- When disinfecting baths

Should surfaces have to be reused quickly on a regular basis, the use of rapidly effective disinfectants is recommended.



# DESCOCEPT SENSITIVE WIPES

## Alcohol-based disinfection wipes with PET or Bio-fleece



- Good material and skin compatibility with low ethanol content
- Wide range of applications on surfaces and medical devices
- Use safely without gloves and save additional costs
- Improved absorbency through structured nonwoven material
- Ideal for food industry and in public areas

**100** wipes per pack  
**100%** biodegradable<sup>1</sup> fleece  
**100%** renewable raw materials

### Alcohol-impregnated wipes for rapid disinfection

DESCOCEPT SENSITIVE WIPES are alcoholic, ready to use wipes for disinfection and cleaning of medical devices and medical inventory as well as all kind of surfaces, especially sensitive surfaces in near patient areas. DESCOCEPT SENSITIVE WIPES offer a universal and time-saving application for the disinfection and cleaning of medium-sized surfaces. The wipes can be extracted individually from the re-sealable and user-friendly flowpack. DESCOCEPT SENSITIVE WIPES are based on an optimal combination of wipe and impregnating solution. Therefore they offer effective, yet gentle disinfection within a short time.

#### Spectrum of efficacy and contact times

	<b>PREVENT</b>	<b>PRESERVE</b>	<b>PROTECT</b>
Application recommendation for surface disinfection	2 min	3 min	

Application recommendation for tuberculocidal surface disinfection

3 min

#### Composition – 100 g solution contain

45 g Ethanol

Single Unit	Unit	Content	Size	REF
flowpack	9	60 wipes	20 x 22 cm	00-323DS-To60E
flowpack (DESOTEX Bio)	6	100 wipes	20 x 20 cm	00-323DS-T100E

<sup>1</sup> The biodegradability of our wipe material has been certified in accordance with EN 13432.

**Prevent** – Bactericidal, yeasticidal, all enveloped viruses **PRESERVE** – Bactericidal, yeasticidal, all enveloped viruses, Noro-, Rota- und Adenoviruses, tuberculocidal **PROTECT** – Bactericidal, yeasticidal, fully virucidal, tuberculocidal, sporicidal.

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

# A sustainable solution with DESOTEX Bio

Our innovative DESOTEX Bio fleece (found in **DESCOCEPT SENSITIVE WIPES Bio**) is made from just one, 100% renewable raw material<sup>1</sup>. It is 100% biodegradable and plastic-free. Independent laboratory tests confirm that the organic non-woven material decomposes at about the same rate as a banana peel in nature. DESOTEX Bio fleece is also PEFC certified for sustainable forestry, something Dr. Schumacher has been supporting for years. The raw materials are primarily sourced from Germany, which shortens the delivery routes and reduces CO<sub>2</sub> emissions.



## Comprehensive efficacy

**DESCOCEPT SENSITIVE WIPES Bio** with DESOTEX Bio fleece offers comprehensive efficacy with short contact times. The comparatively low proportion of ethanol is gentle on skin and on materials. Additionally, the structure of the organic Bio fleece is more tear-resistant and durable and allows for a larger range of coverage on surfaces. This makes it ideal for cleaning and disinfecting medium-sized areas.

## Patented innovation

Our patented folding technology makes the removal of individual wipes quick and easy and helps make the usability of **DESCOCEPT SENSITIVE WIPES** even more efficient. This product is available with both traditional PET non-woven and with our new and improved DESOTEX Bio fleece.

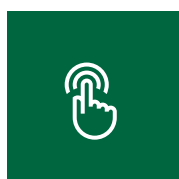
## Compatible with most materials:



WORK STATIONS



MONITORS



CONTROL PANELS



DOOR HANDLES



## Comprehensive, rapid disinfection

Adenovirus EN 14476

**3 min**

Bactericidal/yeasticidal  
EN 16615

**2 min**

All enveloped viruses  
EN 14476

**1 min**

Coronavirus  
EN 14476

**30 s**

Norovirus  
EN 14476

**30 s**

Tuberculocidal  
EN 14348

**30 s**





## DESCOSEPT SENSITIVE WIPES XL

### Alcohol-impregnated wipes for rapid disinfection

- Universal, comfortable and quick application
- Efficient disinfection and cleaning performance with a broad spectrum of efficacy
- For disinfection of large surfaces
- Optimal combination of wipe and impregnating solution
- Easy wipe removal with resealable cover

DESCOSEPT SENSITIVE WIPES XL are alcoholic, ready to use wipes for disinfection and cleaning of medical devices and medical inventory as well as all kind of surfaces, especially sensitive surfaces in near patient areas. DESCOSEPT SENSITIVE WIPES XL offer a universal and time-saving application for the disinfection and cleaning of large surfaces. The wipes can be removed individually from the pre-soaked disposable dispenser. DESCOSEPT SENSITIVE WIPES XL are based on an optimal combination of wipe and impregnating solution, offering effective, yet gentle disinfection within a short time.

Spectrum of efficacy and contact times				
	PREVENT	PRESERVE	PROTECT	
Application recommendation for surface disinfection	2 min	3 min		
Application recommendation for tuberculocidal surface disinfection		3 min		
Composition – 100 g solution contain				
45 g Ethanol				
Single Unit	Unit	Content	Size	REF
wipes dispenser	4	120 wipes	17,5 x 36 cm	00-323DS-OSEB120E

*Prevent* – Bactericidal, yeasticidal, all enveloped viruses *Preserve* – Bactericidal, yeasticidal, all enveloped viruses, Noro-, Rota- and Adenoviruses, tuberculocidal *Protect* – Bactericidal, yeasticidal, fully virucidal, tuberculocidal, sporicidal. Use disinfectants safely. Always read the label and product information before use.



## DESCOSEPT PUR WIPES RTU

### Alcoholic wipes for rapid disinfection

- Versatile, comfortable and time saving application
- Extensive, rapid efficacy
- For disinfection of large-sized surfaces in near patient areas

DESCOSEPT PUR WIPES RTU are alcoholic, ready to use wipes for disinfection and cleaning of non invasive medical devices and medical inventory as well as surfaces in patient-near areas. DESCOSEPT PUR WIPES RTU offer a universal and time saving application for the disinfection and cleaning of large surfaces. The wipes can be extracted easily and individually when used with a traditional bucket with re-sealable lid. Each refill pack comes with an ULTRASOL OXY SACHET to ensure proper, manual reprocessing before refilling the dispenser.

Spectrum of efficacy and contact times				
	PREVENT	PRESERVE	PROTECT	
Application recommendation for surface disinfection	5 min	5 min		
Application recommendation for tuberculocidal surface disinfection		5 min		
Composition – 100 g solution contain				
45 g Ethanol				
Single Unit	Unit	Content	Size	REF
pack	2	120 wipes	17,5 x 36 cm	00-323-RS120E



**PROTECT****PROTECT**

## CLEANISEPT® WIPES FORTE

Alcohol-free wipes for rapid disinfection

- For reprocessing of medical devices with increased efficacy requirements
- For virucidal disinfection of ultrasound probes
- Alcohol, aldehyde and phenol-free

CLEANISEPT WIPES FORTE are alcohol-free, ready to use wipes for virucidal rapid disinfection and cleaning of medical devices and medical inventory. CLEANISEPT WIPES FORTE enable a practical and time-saving application, especially for the virucidal disinfection and cleaning of ultrasound probes. The wipes are free of alcohol, aldehydes and phenols and can be easily extracted from a re-sealable dispenser box. CLEANISEPT WIPES FORTE is odor-free and offers very good material compatibility with extensive efficacy and quick contact times.



## CLEANISEPT® WIPES FORTE MAXI

Alcohol-free wipes for rapid disinfection

- For virucidal disinfection of ultrasound probes for transvaginal and abdominal examinations
- Broad spectrum of efficacy with short contact times
- For disinfection of medium-sized surfaces in areas with increased efficacy requirements
- Alcohol, aldehyde and phenol-free

CLEANISEPT WIPES FORTE MAXI are alcohol-free, ready-to-use disinfection wipes for virucidal disinfection and cleaning of medical devices and medical equipment as well as all types of surfaces in areas requiring greater efficacy. CLEANISEPT WIPES FORTE MAXI ensure universal and quick application for disinfecting and cleaning of medium-sized surfaces. The wipes can be removed individually from the practical packaging with its resealable cover.



### Spectrum of efficacy and contact times

	<b>PREVENT</b>	<b>PRESERVE</b>	<b>PROTECT</b>
Application recommendation for surface disinfection	2 min	2 min	2 min

### Composition – 100 g solution contain

0,4 g Alkyl(C12-16) dimethylbenzylammoniumchlorid  
0,2 g Didecylidimethylammoniumchlorid

Single Unit	Unit	Content	Size	REF
dispenser box	12	100 wipes	14 x 20 cm	00-235-D100E

### Spectrum of efficacy and contact times

	<b>PREVENT</b>	<b>PRESERVE</b>	<b>PROTECT</b>
Application recommendation for surface disinfection	2 min	2 min	2 min

### Composition – 100 g solution contain

0,4 g Alkyl(C12-16) dimethylbenzylammoniumchlorid  
0,2 g Didecylidimethylammoniumchlorid

Single Unit	Unit	Content	Size	REF
flowpack	6	100 wipes	20 x 22 cm	00-235-T100E

**Prevent** – Bactericidal, yeasticidal, all enveloped viruses **Preserve** – Bactericidal, yeasticidal, all enveloped viruses, Noro-, Rota- and Adenoviruses, tuberculocidal **Protect** – Bactericidal, yeasticidal, fully virucidal, tuberculocidal, sporicidal. Use disinfectants safely. Always read the label and product information before use.

# ULTRASOL OXY® WIPES

## Preventing Infection at the Highest Level

**PROTECT**

- Full spectrum of efficacy including virucidal and sporicidal activity
- Excellent material compatibility
- No toxic or hazardous residues
- Suitable for use in the food industry (HACCP certified)
- Excellent cleaning performance
- For final disinfection of semi-critical medical devices

### Oxidative-based sporicidal wipes

ULTRASOL OXY WIPES are highly effective disinfectant wipes on an oxidative basis for disinfecting and cleaning medical devices and medical inventory in areas with increased efficacy requirements. The wipes offer an excellent, comprehensive spectrum of efficacy including fully virucidal and sporicidal. ULTRASOL OXY WIPES leave behind no toxic or environmentally harmful residues on treated surfaces and are characterized by very good material compatibility. This ensures that the wipes can be used on almost all materials. Our ULTRASOL OXY WIPES XL are especially suited for the disinfection of large surfaces. The pre-soaked wipes allow for a comfortable and time-saving application in the most difficult conditions.

#### Spectrum of efficacy and contact times

	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection	5 min	5 min	5 min
Application recommendation for tuberculocidal surface disinfection			5 min
Application Recommendation against C. Diff.			5 min
Application recommendation for sporicidal surface disinfection			15 min

#### Main active ingredients – 100 g solution contain

7 g Hydrogen Peroxide

0,1 g Peracetic Acid

Single Unit	Unit	Content	Size	REF
flowpack	6	108 wipes	20 x 20 cm	00-270-T108E
dispenser system	4	120 Wipes	17,5 x 36 cm	00-270-OSEB120E

# VERSATILITY WHERE YOU NEED IT MOST

Ultra effective. Ultra fast. Ultra Easy.

Universal application



## Unbeatable contact times

The **ULTRASOL OXY** family offers efficient, high-level disinfection for medical devices and surfaces of all kinds. With sporicidal efficacy in 5 minutes, these products have unbeatable contact times for quick and comprehensive disinfection. **ULTRASOL OXY** is ideal for routine disinfection and in case of an outbreak.

## Gentle on materials and the environment

With intense research and development, our R&D team carefully crafted a high-level disinfectant that is also gentle on materials and the environment! The active ingredients in **ULTRASOL OXY** break down into harmless byproducts – water and vinegar.





**SURFACE**

# Dry Wipe Systems



## **Fast and flexible**

For areas that require cleaning and/or disinfection several times a day, the dry wipe dispenser systems from Dr. Schumacher are the ideal solution. Your favorite disinfectant in combination with our high-quality non-woven cloth rolls, allows for a fast, flexible and cost-efficient surface disinfection.

With our time-tested, reusable dispensers and our safe, single-use dispensers for maximum safety, Dr. Schumacher has the right system for your needs, even in high-risk areas.





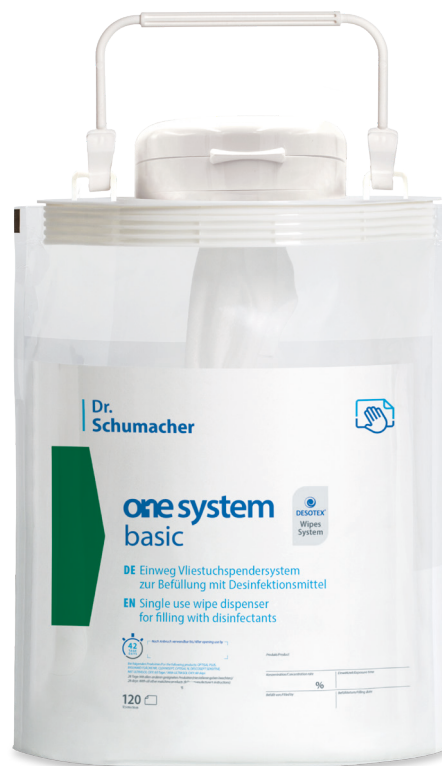


Type of System		Use		Standing Time		Content	Size
Disposable non-woven wipe dispenser system	Reusable non-woven wipe dispenser system	Routine disinfection	High risk areas	28 days	up to 60 days <sup>1</sup>	Wipes per roll	Wipe size
ONE SYSTEM BASIC		•	•		•	120 wipes	17,5 x 36 cm
ONE SYSTEM +PLUS		•	•		•	100wipes	30 x 32 cm
DESCO WIPES		•	•	•		50 wipes	30 x 32 cm
		•	•	•		100wipes	30 x 32 cm
DESCO WIPES SMALL		•	•	•		70 wipes	25 x 25 cm
ECO WIPES		•	•	•		50 wipes	30 x 32 cm
		•	•	•		100 wipes	30 x 32 cm
		•	•	•		120 wipes	17,5 x 36 cm

<sup>1</sup> In comparison with other conventional surface disinfectants with a standing time of 28 days and a impregnation time of 30 minutes, the tested surface disinfectants from Dr. Schumacher achieved a presaturation time of only 15 minutes and an increased standing time of the filled system of 42/60 days.

# ONE SYSTEM BASIC

## Economical. Flexible. Reliable.



- Compact flexi-packaging with high stability for easy handling and fill-level control
- DESOTEX non-woven wipes
- Ready for use in 15 minutes<sup>1</sup> up to 60 days<sup>1</sup> standing time
- Flexible choice of disinfectant
- Space-saving storage and easy disposal

### Single use wipe dispenser for filling with disinfectants<sup>1</sup>

ONE SYSTEM BASIC is an innovative single-use wipe dispenser system. In combination with suitable disinfectants, it can be used for reliable hygienic reprocessing of medical devices and medical equipment as well as all types of surface. ONE SYSTEM BASIC is easy to use and saves time. The closed system comes with 120 DESOTEX XL wipes and is ready to use after just a 15-minute waiting time after filling with your choice of disinfectant. Together with selected and tested Dr. Schumacher products, ONE SYSTEM BASIC may be used for up to 60 days<sup>1</sup> depending on the disinfectant selected. ONE SYSTEM BASIC is designed for single use to avoid risk of contamination during reprocessing and increase compliance. When the wipes run out, simply flatten and compact the packaging for easy disposal. This system is ideal for use in areas with elevated infection risk as well as routine disinfection applications.

Disinfectant	Standing Time <sup>1</sup>	4-Field Test <sup>2</sup>	Use also in Areas with special Risk of Infection <sup>3</sup>	
ULTRASOL OXY	60 Days	●	●	
OPTISAL PLUS	42 Days	●	●	
CLEANISEPT	42 Days	●	●	
OPTISAL N	42 Days	●	●	
DESCOCEPT SENSITIVE	42 Days	●	●	
Size				
17,5 x 36 cm				
Single Unit	Unit	Content	Size	REF
ONE SYSTEM BASIC	4	120 wipes	17,5 x 36 cm	00-915-OSEB120-01

<sup>1</sup> In comparison with other conventional surface disinfectants with a standing time of 28 days and a impregnation time of 30 minutes, the tested surface disinfectants from Dr. Schumacher achieved a presaturation time of only 15 minutes and an increased standing time of the filled system of 42/60 days.

<sup>2</sup> tested with all mandatory test organisms in line with EN 16615 (bactericidal/yeastcidal).

<sup>3</sup> in accordance with information from the Association for Applied Hygiene (VAH) Disinfectant Commission in cooperation with the "4+4 Working Group": On the use of wipe dispenser systems in areas with special infection risk, Hyg Med 2014; 39 – 9.

# Optimal Combination of Packaging and Application

In addition to product efficacy, Dr. Schumacher focuses intently on the user-friendliness, flexibility and cost-effectiveness of our products. The combination of these factors led to our disposable, non-woven tissue dispenser system **ONE SYSTEM BASIC**. **ONE SYSTEM BASIC** enables optimal surface disinfection when used in combination with tested Dr. Schumacher disinfectants. Thanks to the use of flexible packaging, ONE SYSTEM BASIC not only offers a user-friendly and time-saving application, but also easy disposal.

**ONE SYSTEM BASIC can be used up to 42 or 60 days<sup>1</sup> after filling when combined with the following Dr. Schumacher products:**

**ULTRASOL OXY // OPTISAL PLUS // CLEANISEPT // OPTISAL N // DESCOSEPT PUR // DESCOSEPT SENSITIVE**



**ULTRASOL  
OXY®**  
P. 31



**OPTISAL®  
PLUS**  
P. 35



**CLEANISEPT®**  
P. 34



**OPTISAL® N**  
P. 34



**DESCOSEPT  
SENSITIVE**  
P. 29

## Easy application

This innovative, single-use wipe dispenser system is simple, safe and efficient. Its design is based on standard wipe dispensers, but brings with it a number of additional benefits. The opening allows efficient filling and soaking of the entire roll, shortening the preparation time when compared to traditional bucket dispenser systems. The filling process is intuitive and convenient for the user. The transparent pouch design means that you always know how much is left in the packaging, allowing you to seamlessly plan for your next preparation.

## Hygienic, single-use system

The DESOTEX premium wipes in the system are made of a tear-resistant, lint-free non-woven fabric and have been comprehensively evaluated with our recommended disinfectants. The dispenser features a stand-up pouch specially designed to save space during both storage and disposal. **ONE SYSTEM BASIC** is user-friendly, economical and effective, ensuring optimal disinfection.



## Advantages of ONE SYSTEM BASIC

Lightweight, compactable  
dispenser for easy recycling

Well-suited for  
high-risk areas

Less waste thanks  
to flexible packaging

Single-use concept  
reduces risk of contamination  
during reprocessing

Easy and safe filling  
with resealable opening



<sup>1</sup> In comparison with other conventional surface disinfectants with a standing time of 28 days and a impregnation time of 30 minutes, the tested surface disinfectants from Dr. Schumacher achieved a presaturation time of only 15 minutes and an increased standing time of the filled system of 42/60 days.



When used with:

ULTRASOL OXY // OPTISAL PLUS // CLEANISPET // OPTISAL N //  
DESCOCEPT PUR // DESCOCEPT SENSITIVE

## ONE SYSTEM+ PLUS

Single use wipe dispenser for filling with disinfectants

- New, innovative design for easy use
- Collapsible and recyclable bucket
- Ready for use in 15 minutes<sup>1</sup> up to 60 days<sup>1</sup> standing time
- New with fold-down handle
- Large and resealable opening for easy and safe filling

ONE SYSTEM PLUS is an innovative, disposable non-woven wipe dispenser system for professional disinfection. Combined with selected Dr. Schumacher disinfectants, ONE SYSTEM PLUS can be used up to 60 days<sup>1</sup> instead of the standard 28 days for other products on the market. The wipes are suitable for use on medical devices, medical equipment and surfaces of all kinds. ONE SYSTEM PLUS is quick and practical to use. The system is already fitted with a DESOTEX non-woven wipe roll so that users can carry out the required disinfection measures immediately after filling and soaking time. Once the roll is empty, disposal is quick and easy: simply empty out any remaining disinfectant liquid or other residues and collapse the bucket. ONE SYSTEM PLUS prevents possible contamination resulting from reprocessing and re-use of traditional bucket systems. The system is therefore ideal for areas with an especially high risk of infection as well as routine application in the healthcare sector.

### Safe and robust

ONE SYSTEM PLUS offers all the advantages of ONE SYSTEM BASIC, but with a more robust packaging. The dispenser opening is perfectly aligned with the wipe roll for optimal saturation, shortening preparation time and giving the user quick access when removing the first wipe. The filling process was designed to be intuitive and practical for the user – minimizing the number of steps required in the preparation. The transparent design of the lid means that the filling level can be checked at a glance, making it easy to plan your supply. The dispenser, with its lightweight foldable construction, is made of pure polypropylene and can be flattened for disposal without any special requirements.

### Tested and proven Compatibility

DESOTEX premium non-woven fabric is a tear-resistant and has been extensively reviewed by experts with our recommended disinfectants. ONE SYSTEM PLUS ensures optimal implementation of the desired disinfection measures with user-friendly handling, cost effectiveness and demonstrated safe results.

Disinfectant	Standing Time <sup>1</sup>	4-Field Test <sup>2</sup>	Use also in Areas with special Risk of Infection <sup>3</sup>
ULTRASOL OXY	60 Days	•	•
OPTISAL PLUS	42 Days	•	•
CLEANISEPT	42 Days	•	•
OPTISAL N	42 Days	•	•
DESCOCEPT PUR	42 Days	•	•
DESCOCEPT SENSITIVE	42 Days	•	•
<b>Size</b>			
30 x 32 cm			
<b>Single Unit</b>			
ONE SYSTEM PLUS	Unit	Content	REF
ONE SYSTEM PLUS	2	100 wipes	00-915-OSEE100-01E

<sup>1</sup> In comparison with other conventional surface disinfectants with a standing time of 28 days and a impregnation time of 30 minutes, the tested surface disinfectants from Dr. Schumacher achieved a presaturation time of only 15 minutes and an increased standing time of the filled system of 42/60 days.

<sup>2</sup> tested with all mandatory test organisms in line with EN 16615 (bactericidal/yeastcidal).

<sup>3</sup> in accordance with information from the Association for Applied Hygiene (VAH) Disinfectant Commission in cooperation with the "4+4 Working Group": On the use of wipe dispenser systems in areas with special infection risk, Hyg Med 2014; 39 – 9.





## DESCO WIPES

### Dispenser bucket

- Reusable wipes dispenser system for use with DESCO WIPES in combination with suitable surface disinfectants
- Each refill comes with an ULTRASOL OXY Sachet for dispenser reprocessing

DESCO WIPES is a reusable wipes dispenser system for cleaning and disinfection. DESCO WIPES consists of a reusable wipe dispenser (bucket) and corresponding non-woven rolls for refilling. It can be used in combination with both ready-to-use, rapid disinfectants as well as disinfectant concentrates, making it a flexible solution for your varying hygiene needs. DESCO WIPES may be used for the cleaning and disinfection of medical devices, medical equipment and surfaces of all kinds.

Each refill comes with an ULTRASOL OXY SACHET to ensure proper, manual reprocessing before reusing the dispenser.

Single Unit	Unit	Content	Size	REF
dispenser bucket	1	empty	-	00-915-SD001
dispenser bucket	6	empty	-	00-915-SD002
wall holder	1	-	-	00-902-EIM
dispenser bucket small	1	empty	-	00-915-SKD001
dispenser bucket small	6	empty	-	00-915-SKD002
wall holder small	1	-	-	00-902-EIMK

#### DESCO WIPES

pack	3	100 wipes	30 x 32 cm	00-915-RD10003-01
pack	6	100 wipes	30 x 32 cm	00-915-RD10006-01
pack	3	50 wipes	30 x 32 cm	00-915-RD5003-01

#### DESCO WIPES SMALL

pack	3	70 wipes	25 x 25 cm	00-915-RD7003-01
------	---	----------	------------	------------------



## ECO WIPES

### Dispenser bucket

- Reusable wipes dispenser system for use with ECO WIPES in combination with suitable surface disinfectants
- Each refill comes with an ULTRASOL OXY Sachet for dispenser reprocessing

ECO WIPES is a reusable wipes dispenser system for cleaning and disinfection. The ECO WIPES system consists of a reusable wipe dispenser and corresponding non-woven rolls for refilling. It may be used for the cleaning and disinfection of medical devices, medical equipment and surfaces of all kinds. ECO WIPES can be used in combination with both ready-to-use, rapid disinfectants as well as disinfectant concentrates, making it a flexible solution for your varying hygiene needs.

Each refill comes with an ULTRASOL OXY SACHET to ensure proper, manual reprocessing before reusing the dispenser.

Single Unit	Unit	Content	Size	REF
dispenser bucket	1	empty	-	00-915-SE001
dispenser bucket	6	empty	-	00-915-SE002
wall holder	1	-	-	00-902-EIM

#### ECO WIPES

pack	3	100 wipes	30 x 32 cm	00-915-REW10003-01
pack	6	100 wipes	30 x 32 cm	00-915-REW10006-01
pack	3	50 wipes	30 x 32 cm	00-915-REW5003-01



## HAND AND SKIN

# Decontamination



### Gentle patient washing and decontamination

Dr. Schumacher products for antimicrobial washing of skin and hair are effective against bacteria and multi-resistant pathogens such as MRSA and *A. baumannii* thanks to chlorhexidine. Whole body washing with chlorhexidine preparations prevents the colonization of bacterial pathogens and reduces the rate of sepsis.

Dr. Schumacher products for patient washing are extremely skin-friendly thanks to their mild surfactants and lipid replenishing agents. Available as a washing lotion as well as rinse-free wipe and cap applications, DECONTAM-AN products are ideally formulated for patients with sensitive skin.





															Application Areas	Spectrum of Activity				Product Properties											
															Antimicrobial cleansing																
															Hygienic hand wash																
															Antimicrobial hair washing																
															Bactericidal																
															Yeasticidal																
															Effective against enveloped viruses																
															MRSA																
															MRGN (e.g. Acinetobacter baumannii)																
															Microwaveable																
															Alcohol-free																
															pH skin neutral																
															Lipid replenishing																
															Perfume-free																
															Colorless																
DECONTAMAN PRE SOFT															•	•	•	•	•	•	•	•		•	•	•	•	•	•		
DECONTAMAN PRE WIPES															•				•	•		•	•	•	•					•	
DECONTAMAN PRE CAP															•		•	•	•		•	•	•	•	•					•	

Please refer to the product information sheet (PIF) for complete information on the spectrum of activity.



## PREVENT



## DECONTAMAN PRE SOFT

### Antimicrobial washing lotion

- For presurgical, antimicrobial patient washing and decontamination
- Effective in just 1 minute
- Bactericidal, yeasticidal, active against enveloped viruses
- QAC and phenol-free
- Color and perfume-free

DECONTAMAN PRE SOFT is an antimicrobial cleansing lotion that simultaneously cleans and decontaminates skin and hands even in the presence of high fat or protein loads (i.e. food preparation). It is designed for antimicrobial whole-body washing where patients are at risk of colonization from MRSA or other multi-resistant Gram-negative bacteria like *Acinetobacter baumannii* or vancomycin-resistant enterococci (VRE). Patient washing with DECONTAMAN PRE SOFT is recommended prior to surgery and during longer periods of bed confinement. Containing only 2% CHG, DECONTAMAN PRE SOFT offers excellent skin compatibility and is suitable for regular use in hygienic hand washing in accordance with VAH directive and EN 1499. In addition to being QAC and phenol-free, the product is also color and perfume-free – avoiding known skin irritants.

#### Spectrum of efficacy and contact times

Application recommendation for hygienic handwash <sup>1</sup>	EN 1499 / VAH	dirty conditions	1 min
activity against enveloped viruses	EN 14476		1 min
bactericidal	EN 13727	dirty conditions	30 s
yeasticidal ( <i>C. albicans</i> )	EN 13624	dirty conditions	1 min

#### Composition – 100 g solution contain

2 g chlorhexidine digluconate

1.5 g 2-phenoxyethanol

Single Unit	Unit	Content	REF
round bottle	30	100 ml	00-532-001E
dispenser bottle	20	500 ml	00-532-005E
dispenser bottle	12	1 L	00-532-010E
canister	3	5L	00-532-050E

<sup>1</sup> including phase 2 step 1 and phase 2 step 2 tests (quantitative suspension tests and quantitative carrier tests)  
Use disinfectants safely. Always read the label and product information before use.



## DECONTAMAN PRE WIPES

### Antimicrobial cleansing wipes

- Leave-on, presurgical antimicrobial patient washing wipes
- Practical, quick and gentle application with high-quality non-woven wipes
- Broad efficacy against multi-resistant pathogens
- May be warmed before use

DECONTAMAN PRE WIPES are ready-to-use wipes for gentle, antimicrobial cleansing of the skin. The large wipes are made of robust yet soft, non-woven fabric and are impregnated with a mild solution containing 2% CHG. DECONTAMAN PRE WIPES is a leave-on product and requires no rinsing after use. DECONTAMAN PRE WIPES boasts a 24-hour residual decontamination effect thanks to a film of non-irritating active ingredient that remain on the skin and are released over time. DECONTAMAN PRE WIPES are therefore well suited for time-saving yet thorough cleansing of skin colonized with multi-resistant bacteria and can also be used to prevent colonization in preoperative patients.

#### Spectrum of efficacy and contact times

Application recommendation for antimicrobial patient washing <sup>1</sup>	EN 1499 (modified)	dirty conditions	5 min
bactericidal	EN 13727	clean conditions	1 min
bactericidal	EN 13727	dirty conditions	5 min
yeasticidal ( <i>C. albicans</i> )	EN 13624	clean conditions	3 min
yeasticidal ( <i>C. albicans</i> )	EN 13624	dirty conditions	3 min

#### Composition – 100 g solution contain

2 g chlorhexidine digluconate

Single Unit	Unit	Content	Size	REF
flowpack	24	10 wipes	20 x 30 cm	00-530-T010E





## DECONTAMAN PRE CAP

### Antimicrobial cleansing cap

- Quick and easy hair washing and decontamination in a practical cap application.
- Leave-on formulation - no water required
- Broad efficacy against multi-resistant pathogens
- May be warmed before use

DECONTAMAN PRE CAP is a ready-to-use washing cap for the antimicrobial cleansing of hair and scalp. DECONTAMAN PRE CAP allows a time-saving and thorough cleansing ideal for immobile patients. Impregnated with an antimicrobial, 2% CHG solution, DECONTAMAN PRE CAP offers bactericidal and yeasticidal efficacy. The cap is durable and latex-free and may be warmed before use for patient comfort.

#### Spectrum of efficacy and contact times

Application recommendation for disinfecting hair wash <sup>1</sup>	EN 1499 (modified)	dirty conditions	5 min
bactericidal	EN 13727	clean conditions	1 min
bactericidal	EN 13727	dirty conditions	5 min
yeasticidal (C. albicans)	EN 13624	clean conditions	3 min
yeasticidal (C. albicans)	EN 13624	dirty conditions	3 min

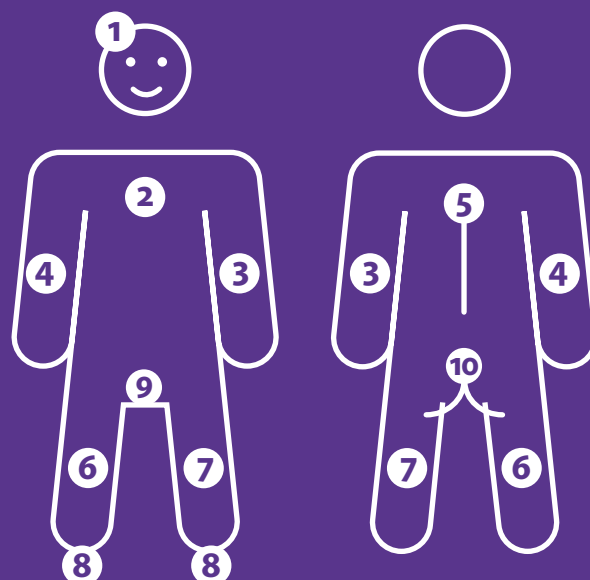
#### Composition – 100 g solution contain

2 g Chlorhexidine digluconate

Single Unit	Unit	Content	REF
cap	30	1 piece	00-530-H001E

## Full body washing

### sequence with 10 wipes



#### 1 Face

Cleanse face completely. Eyes must stay closed during the entire process. Use wipes carefully in the area around the eyes and avoid letting liquid run into eyes. When cleansing the ears be careful to keep liquid from running into ears.

#### 2 Chest/stomach

Remove clothing from upper body and wash torso from the neck down to the belly button. Keep lower body warm.

#### 3 4 Arms

Starting at the fingertips wash hands, arms and especially the armpits.

#### 5 Back

Sit up or turn patient/resident to one side. From the outside with an inward motion wash neck and back. Dress patient/resident and turn them on their back.

#### 6 7 Legs

Undress the lower body. Wash legs in an upward motion up to the thighs in the direction of the heart.

#### 8 Feet

Wash feet starting with the toes.

#### 9 Genital area

Perform intimate care.

#### 10 Buttocks

Turn patient/resident to one side and wash buttocks and anal region

#### ! Important:

When performing decontamination, towels should be placed under the patient so that the unwashed side of the body does not come into contact with clean linens. Avoid contact with mucous membranes. Due to hygienic reasons, wash genital area and buttocks last.

HAND AND SKIN

# Hand Disinfection



## Versatile and reliable

The large variety of rub-in preparations in Dr. Schumacher's ASEPTOMAN Family allows us to meet all requirements for various hand disinfection needs.

Whether ethanol or isopropanol, Dr. Schumacher products are proven to be effective. ASEPTOMAN MED offers efficacy against all enveloped viruses as well as noro-, adeno- and rotaviruses with a low alcohol content, making it ideal for both routine hand disinfection, as well as in cases of norovirus outbreaks.



	ASEPTOMAN®	•	•			•	•		•		•	
	ASEPTOMAN® MED	•	•	•	•		•	•	•	•	•	•
	ASEPTOMAN® FORTE	•	•	•	•		•	•	•	•	•	
	ASEPTOMAN® GEL	•	•	•	•		•	•	•	•	•	

Application Areas			Active Ingredients		Spectrum of Activity			Product Properties			Listing
Hygienic hand disinfection acc. to EN 1500											
Surgical hand disinfection acc. to EN 12791											
Recommended for use in the food industry											
			Ethanol								
			2-Propanol								
					Active against enveloped viruses						
					Norovirus- & Adenoviruses						
					Virucidal						
					Lipid replenishing						
					Perfume-free						
					Colorless						
					HACCP						



Please refer to the product information sheet (PIF) for complete information on the spectrum of activity.

## PREVENT



## PRESERVE



HACCP

## ASEPTOMAN®

### Alcoholic hand disinfectant

- Bactericidal, tuberculocidal, yeasticidal
- Effective against all enveloped viruses
- Contains emollients for skin care
- For hygienic and surgical hand disinfection
- Color, perfume and QAC-free

ASEPTOMAN is an alcoholic hand disinfectant to be rubbed into the skin. ASEPTOMAN is especially skin-friendly. It contains high quality emollients for skin care which protect the skin against dehydration.

## ASEPTOMAN® MED

### Alcoholic hand disinfectant

- Limited spectrum virucidal activity within 30 s
- Low alcohol content ensures good skin compatibility with frequent use
- Effective against Noro, Rota and Adenoviruses
- Color, perfume and QAC-free

Alcoholic hand disinfectant to be rubbed into the skin. ASEPTOMAN MED is especially gentle on skin due to its low alcohol content, yet still offers a broad range of efficacy ideal for the daily routine. ASEPTOMAN MED is effective against noro-, rota- and adenovirus within the requirements for hygienic hand disinfection. It is perfume-free and free from cumulative long-term agents, which can accumulate on the skin and cause irritation. Additionally, ASEPTOMAN MED contains valuable re-fattening and caring ingredients to prevent drying out of the skin and for a difference you can feel.

## Spectrum of efficacy and contact times

	PREVENT	PRESERVE	PROTECT
Application recommendation for hygienic hand disinfection	30 s		
Application recommendation for surgical hand disinfection	1,5 min		

## Composition – 100 g solution contain

63.14 g (70 % V/V) 2-Propanol.

Single Unit	Unit	Content	REF
pocket-size-bottle	20	150 ml	00-403-0015E
dispenser bottle	20	500 ml	00-403-005E
dispenser bottle	12	1 L	00-403-010E

**Prevent** – Bactericidal, yeasticidal, all enveloped viruses **Preserve** – Bactericidal, yeasticidal, all enveloped viruses, Noro-, Rota- and Adenoviruses, tuberculocidal **Protect** – Bactericidal, yeasticidal, fully virucidal, tuberculocidal, sporicidal.

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

## Spectrum of efficacy and contact times

	PREVENT	PRESERVE	PROTECT
Application recommendation for hygienic hand disinfection	30 s	30 s	
Application recommendation for surgical hand disinfection	2 min	2 min	

## Composition – 100 g solution contain

65 g (72% V/V) Ethanol

Single Unit	Unit	Content	REF
pocket-size-bottle	20	150 ml	00-457OP-0015E
dispenser bottle	20	500 ml	00-457OP-005E
dispenser bottle	12	1 L	00-457OP-010E

VAH – listed in the VAH list for hygienic hand disinfection with a contact time of 30 sec

**Prevent** – Bactericidal, yeasticidal, all enveloped viruses **Preserve** – Bactericidal, yeasticidal, all enveloped viruses, Noro-, Rota- and Adenoviruses, tuberculocidal **Protect** – Bactericidal, yeasticidal, fully virucidal, tuberculocidal, sporicidal.

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



# Best in routine hand disinfection!



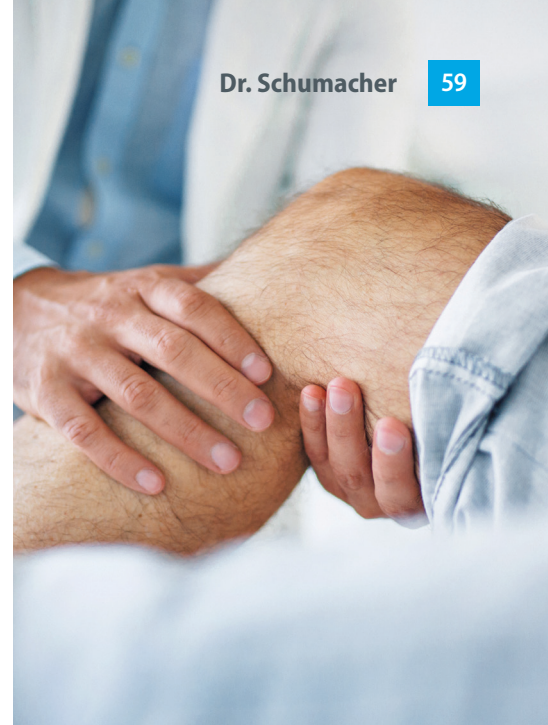
## For everyday use

**ASEPTOMAN MED** has a broad spectrum of efficacy and thank to its low alcohol content, is also particularly skin-friendly.

**ASEPTOMAN MED** offers limited virucidal PLUS efficacy within **30 seconds – active against noroviruses, adenoviruses and rotaviruses.** Nourishing ingredients prevent skin irritation and prevent hands from drying out – making it ideal for your everyday routine.

## Reliable quality now with less plastic

Our new, **light weight bottles use 13% less plastic** – that's around 18 tons of plastic saved each year. One bottle of **ASEPTOMAN MED** contains about as much plastic as four conventional ballpoint pens. As with all our products, the raw materials used are limited to the essentials, but the quality remains unchanged.



**PROTECT****PROTECT**

## ASEPTOMAN® FORTE

### Alcoholic hand disinfectant

- Virucidal in 30 seconds
- Surgical hand disinfection in 1.5 minutes
- Patented combination of alcohol and agents for optimal skin care and protection
- Perfume-free, Colorant-free, QAC-free

ASEPTOMAN FORTE is an ethanol based, fully virucidal hand disinfectant. ASEPTOMAN FORTE offers a comprehensive spectrum of efficacy, while being extremely skin-friendly. ASEPTOMAN FORTE has been proven to increase skin hydration and soften and smooth the skin. It is color, perfume and QAC free.

## ASEPTOMAN® GEL

### Alcoholic hand disinfectant

- Bactericidal, tuberculocidal, yeasticidal, virucidal
- Convenient gel form for use in ambulances or home care settings
- High quality ingredients and moisturizers
- Good skin compatibility with broad spectrum of efficacy
- Perfume-free, Color-free, QAC-free

Alcoholic hand disinfectant gel to be rubbed into the skin. Precise dosing and easier, non-drip application through a user-friendly gel formulation. ASEPTOMAN GEL is free from cumulative long-term acting ingredients that may cause skin irritation. Compatible with all washing lotions. Free from aldehydes, phenols and quaternary ammonium compounds.

#### Spectrum of efficacy and contact times

	<b>PREVENT</b>	<b>PRESERVE</b>	<b>PROTECT</b>
Application recommendation for hygienic hand disinfection	30 s	30 s	30 s
Application recommendation for surgical hand disinfection	1,5 min	1,5 min	1,5 min

#### Composition – 100 g solution contain

85 g (89% V/V) Ethanol

Single Unit	Unit	Content	REF
pocket-size-bottle	20	150 ml	00-485OP-0015E
dispenser bottle	20	500 ml	00-485OP-005E
dispenser bottle	12	1 L	00-485OP-010E

#### Spectrum of efficacy and contact times

	<b>PREVENT</b>	<b>PRESERVE</b>	<b>PROTECT</b>
Application recommendation for hygienic hand disinfection	30 s	1 min	1 min
Application recommendation for surgical hand disinfection	1,5 min	1,5 min	1,5 min

#### Composition – 100 g solution contain

80,8 g (85% V/V) Ethanol

Single Unit	Unit	Content	REF
pocket-size-bottle	20	150 ml	00-409-0015E
dispenser bottle	20	500 ml	00-409-005E
dispenser bottle	12	1 L	00-409-010E

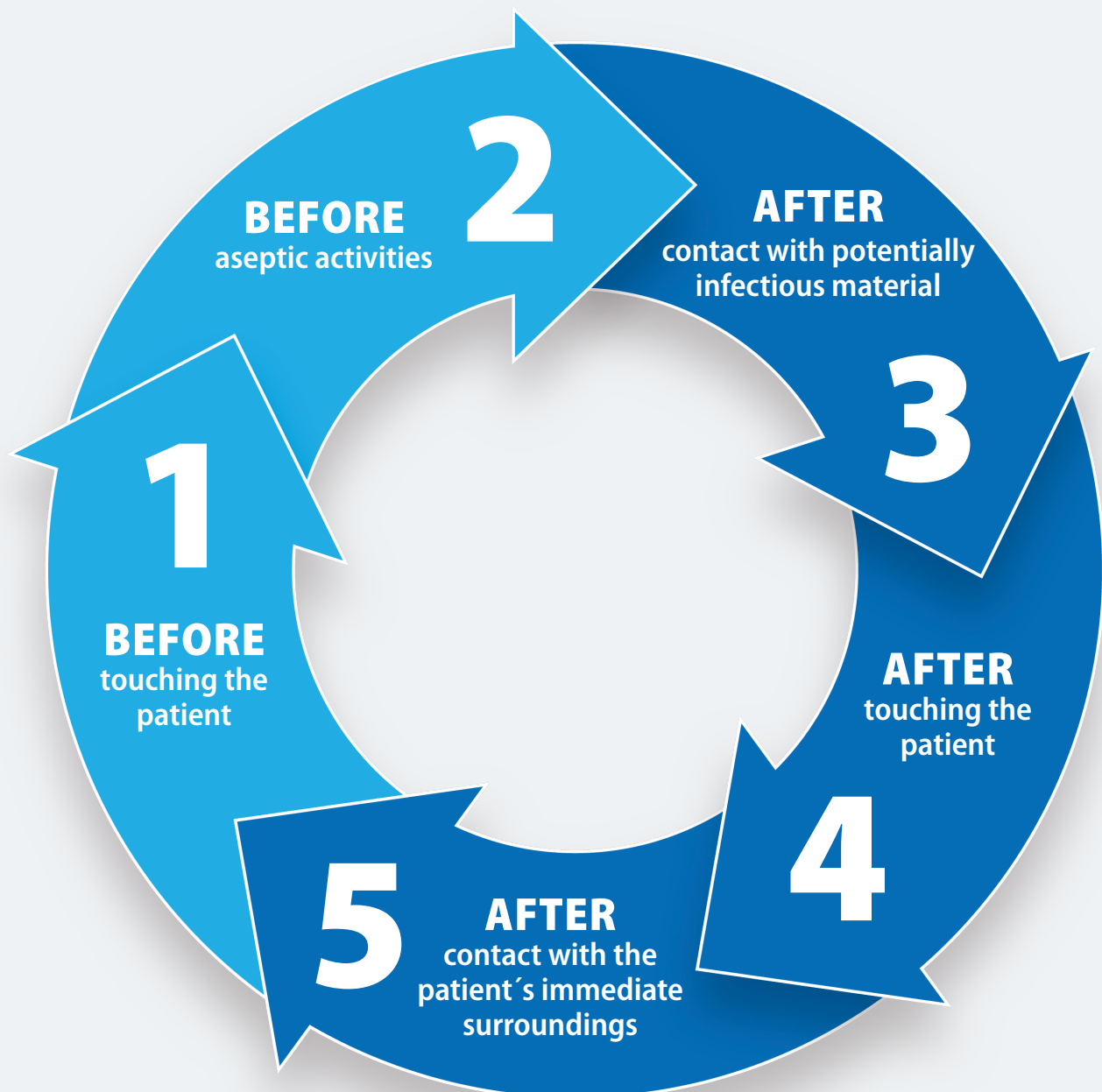
*Prevent* – Bactericidal, yeasticidal, all enveloped viruses *Preserve* – Bactericidal, yeasticidal, all enveloped viruses, Noro-, Rota- and Adenoviruses, tuberculocidal *Protect* – Bactericidal, yeasticidal, fully virucidal, tuberculocidal, sporicidal. Use disinfectants safely. Always read the label and product information before use.

# 5 Moments of Hand Hygiene

The World Health Organization (WHO) identified “5 Moments of Hand Hygiene” that are still considered today as the ultimate model for hand hygiene protocols. By accounting for every instance microbial transmission may occur and framing them to five fundamental points, this set of practices is both extensive and practical. These moments highlight when healthcare professionals should disinfect their hands.

## Why are the 5 moments of hand hygiene important?

This guide was created with the knowledge that proper hand hygiene is the single most effective way to prevent the spread of infection, specifically, Healthcare-Associated Infections (HAIs). HAIs not only threaten patient and staff safety, but they can cost hospitals tens of thousands of dollars per case. Most HAIs are avoidable, but they still occur due to lack of hand hygiene compliance—leaving the respective hospitals to pay for the consequences. HAIs are so plentiful that the Centers for Medicaid and Medicare (CMS) created an HAC reduction program.





## HAND AND SKIN

# Skin Disinfection



### **Preventive reduction of harmful skin flora**

Dr. Schumacher's preparations for skin disinfection prevent the transmission of pathogens into deeper layers of tissue through punctures, injections and surgical interventions, achieving the greatest possible reduction in skin flora.

Available in both colored and non-colored formulations, Dr. Schumacher's skin disinfectants are tested according to EN as well as German VAH methods. They come ready to use and are suitable for all skin types.





	Application Areas				Active Ingredients		Spectrum of Activity		Product Properties	
	Skin disinfection	Application recommendation for skin disinfection before injections and puncturing of skin with few sebaceous glands	Application recommendation for skin disinfection before puncture of joints, body cavities and hollow organs as well as surgical procedures	Recommended for skin disinfection on skin rich in sebaceous glands	2-Propanol	CHG	Effective against enveloped viruses	Bactericidal, yeasticidal, tuberculocidal	Perfume-free	Colorless
ASEPTODERM®	•	•	•	•	•		•	•		•
ASEPTODERM® 2 % CHG	•	•	•	•	•	•	•	•	•	•
ASEPTODERM® 2 % CHG COLOURED	•	•	•	•	•	•	•	•	•	



Please refer to the product information sheet (PIF) for complete information on the spectrum of activity.

For spraying  
or swabbing

**PREVENT**



## ASEPTODERM®

### Alcoholic skin disinfectant

- Bactericidal, yeasticidal, tuberculocidal
- Active against all enveloped viruses
- Color-free, QAC-free

ASEPTODERM is an alcoholic skin disinfectant for spraying or swabbing of skin. ASEPTODERM is free from persistent long-term acting ingredients that might have an irritating or sensitising effect on the skin. Thus it is exceptionally kind to the skin.

Spectrum of Efficacy and Contact Times			
Skin Disinfection			
active against all enveloped viruses	RKI / DVV <sup>1</sup>	15 s	
skin disinfection	EN 12791	1.5 min	
Additional EN Test Results			
tuberculocidal (M. terrae)	EN 14348	30 s	
bactericidal	EN 13727	15 s	
yeasticidal (Candida albicans)	EN 13624	15 s	
Composition – 100 g solution contain			
63,14 g 2-Propanol			
Perfume			
Single Unit	Unit	Content	REF
spray bottle	20	250 ml	00-501-0025E
dispenser bottle	10	1 L	00-501-010E

<sup>1</sup> incl. HBV/HIV/HCV

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

For spraying  
or swabbing

**PREVENT**



## ASEPTODERM® 2 % CHG

### Alcoholic skin disinfectant

- Ready-to-use colorless skin disinfectant
- Based on 70 % alcohol and 2 % chlorhexidine
- Colorant-free, QAC-free

ASEPTODERM 2 % CHG is a ready-to-use, alcohol-based skin disinfectant for swabbing or spraying of the skin. It is well-suited for skin disinfection prior to injections, incisions, punctures, drawing blood, catheter insertions, minor surgical interventions and minor accidental injuries and can also be used for pre- and post-surgical disinfection. ASEPTODERM 2 % CHG is extremely gentle to the skin and free from aldehydes, phenols and quaternary ammonium compounds.

Spectrum of Efficacy and Contact Times			
Skin Disinfection			
skin disinfection with 3-hour long-term effect	EN 12791	15 s	3 min
active against all enveloped viruses	EN 14476	15 s	
Additional EN Test Results			
bactericidal	EN 13727	1 min	
yeasticidal (Candida albicans)	EN 13624	1 min	
Composition – 100 g solution contain			
63,1 g 2-Propanol (70% Isopropanol v/v)			
2,26 g Chlorhexidine Digluconate (CHG)			
Single Unit	Unit	Content	REF
spray bottle	20	250 ml	00-520-0025E
bottle	10	1 L	00-520-010E

## PREVENT



## ASEPTODERM® 2 % CHG COLOURED

### Coloured alcoholic skin disinfectant

- Ready-to-use skin disinfectant
- Perfume-free
- Based on 70 % alcohol and 2 % chlorhexidine
- Phenole-free, QAC-free
- Red coloring for easy marking of disinfected area

ASEPTODERM 2% CHG coloured is a ready-to-use, alcohol-based skin disinfectant. The red coloring helps to mark the area on the skin that has been disinfected. It is primarily used as a pre- and post-operative skin disinfectant and can also be used for skin disinfection prior to injections, incisions, punctures, blood withdrawals, catheter insertions, minor surgical interventions and minor accidental injuries. ASEPTODERM 2% CHG coloured is gentle to the skin and free from aldehydes, phenols and quaternary ammonium compounds. Available also in a spray bottle.

#### Spectrum of Efficacy and Contact Times

##### Skin Disinfection

skin disinfection with 3-hour long-term effect	EN 12791	15 s	3 min
active against all enveloped viruses	EN 14476	15 s	

##### Additional EN Test Results

bactericidal	EN 13727	1 min
yeastcidal (Candida albicans)	EN 13624	1 min

##### Composition – 100 g solution contain

63,1 g 2-Propanol (70% Isopropanol v/v)
2,26 g Chlorhexidine Digluconate (CHG)
Contains colorants (E 122 / Azorubine)

Single Unit	Unit	Content	REF
spray bottle	20	250 ml	00-520C-0025E
bottle	10	1 L	00-520C-010E

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

## WHO Recommendation

The new WHO guidelines on prevention of surgical site infections recommend chlorhexidine-alcohol rather than aqueous povidone-iodine or povidone-iodine with alcohol for surgical skin preparation. WHO's recommendation now effectively no longer supports use of povidoneiodine-alcohol for surgical site preparation.



## HAND AND SKIN

# Cleansing, Care and Protection



### Cleansing and care for every skin type

With its DESCOLIND series, Dr. Schumacher has set a new standard for hand cleansing, care and protection. With modern formulas, the DECOSLIND COMFORT, PURE and EXPERT series are especially tailored to the need of different skin types conditions. Users can easily and safely select the product series that suits them.

With changing skin conditions in the course of working life, users can switch seamlessly between the different series. The mutually compatible series can also be combined if desired.





	Contents						Product Properties								Product Properties					Listing
	Humectants	Lipid replenishers and/or botanical oils	Skin-regenerating care agents	Silicone-free	Colorless	Perfume-free	Type of emulsion	pH skin neutral	Cream	Lotion	Suitable for dispensers	Cooling effect	Wipe size in cm	Hypoallergenic formulation	Normal skin	Dry skin	Very dry skin	Sensitive skin	HACCP	
DESCOLIND CARE WIPES	•	•	•	•	•			•					20 x 30		•	•	•	•		
DESODERM CARE WIPES	•	•	•	•	•	•		•					18 x 20	•	•	•	•	•		
BABY WIPES SENSITIVE	•		•	•	•	•		•					18 x 20	•	•	•	•	•		
DESCOMED ÖLBAD		•	•	•	•									•	•	•				
DESCO VITAL		•		•	•			•		•	•	•		•	•	•	•			
DESCOLIND COMFORT WASH	•	•	•					•			•				•					
DESCOLIND COMFORT LIGHT CREAM	•	•	•	•	•		O/W	•		•	•				•					
DESCOLIND PURE WASH	•	•	•		•	•		•			•				•			•	•	
DESCOLIND PURE LIGHT CREAM	•	•	•	•	•	•	O/W	•		•	•							•	•	
DESCOLIND PURE INTENSIVE CREAM	•	•	•	•	•	•	W/O		•		•							•	•	
DESCOLIND EXPERT WASH	•	•			•	•		•			•			•		•	•	•		
DESCOLIND EXPERT LIGHT CREAM	•	•	•	•	•	•	O/W	•	•		•			•		•	•	•		
DESCOLIND EXPERT INTENSIVE CREAM	•	•		•	•	•	W/O		•					•		•	•	•	•	
DESCOLIND EXPERT PROTECT CREAM	•	•			•	•	O/W	•		•	•			•		•	•	•	•	

O/W = oil-in-water emulsion – W/O = water-in-oil emulsion





## DESCOLIND CARE WIPES

Nourishing cleansing wipes  
for gentle patient washing

- With panthenol and allantoin for gentle patient washing
- Practical and quick to apply
- Microwaveable
- Full-body wash without rinsing
- Suitable for ostomy care

DESCOLIND CARE WIPES are ready-to-use wipes for cleansing and care of the skin. They provide a time-saving and thorough cleaning of immobile patients. The 10 wipes package is designed for full body washing – no rinsing required! Due to very mild, plant-based surfactants and care ingredients such as allantoin and panthenol, DESCOLIND CARE WIPES provide nourishing skin care and a pleasant scent with their gentle washing. The large washcloths are made of durable, skin-friendly non-woven material and may be warmed prior to use for patient comfort.

## Convenient Alternative for Personal Hygiene

Traditionally, soap and water have been used for personal hygiene, but in recent years soap and water have increasingly been replaced by the use of disposable wet wipes – especially with immobile patients. Disposable wet wipes are considered a convenient alternative and preferred in certain circumstances, for example, when a patient has pain or diarrhea.



Single Unit	Unit	Content	Size	REF
package	24	10 wipes	20 x 30 cm	00-604DW1-To10-01



DAAB

## DESODERM CARE WIPES

Caring cleansing wipes for sensitive skin

- Cleansing and caring wipes
- Extra soft fleece
- Alcohol and perfume-free
- Approved by the German Allergy and Asthma Association e. V. (DAAB)

DESODERM CARE WIPES are intended for gentle cleansing and care of especially sensitive skin. DESODERM CARE WIPES are impregnated with a mild, plant-based surfactant and caring agents like aloe vera, allantoin and glycerin for a caring and soothing effect on the skin. The wipes are very soft and pleasant on the skin and may be warmed before use for patient comfort.



## BABY WIPES SENSITIVE

Cleansing wipes for mild babycare

- With aloe vera and allantoin
- Alcohol and perfume-free
- Hypoallergenic formulation for sensitive skin
- For mild and gentle cleansing of baby skin

CARE ZONE BABY WIPES SENSITIVE for gentle cleansing and care of sensitive baby skin are ÖKO-TEST compliant, perfume-free and approved by the German Allergy and Asthma Association e. V. (DAAB). The soaking solution of CARE ZONE BABY WIPES SENSITIVE contains a mild, plant-based cleansing surfactant and skin-soothing ingredients such as aloe vera and allantoin. The wipes are very soft and allow a gentle cleansing of the diaper area as well as the rest of the body. The wipes can be removed individually from the practical packaging with its resealable lid.



Single Unit	Unit	Content	Size	REF
package	12	80 wipes	18 x 20 cm	00-639NK-To80

Single Unit	Unit	Content	Size	REF
package	12	80 wipes	18 x 20 cm	01-639NK-To80



## DESCOMED ÖLBAD

Medical oil bath

- High-quality bath additive dry and scaly skin
- With aloe vera, jojoba oil, panthenol and vitamin E
- pH-skin neutral

DESCOMED ÖLBAD is a high-quality bath additive containing nourishing oils, such as rapeseed and jojoba oil, that leave a pleasant soothing film on the skin. DESCOMED ÖLBAD is intended for the treatment of dry, irritated and scaly skin (i.e older patients or patients with dry eczema).



## DESCO VITAL

Vitalising gel for application on skin

- Pleasantly cooling, relaxing and vitalising
- Contains essences of medicinal herbs from spruce needles, eucalyptus, juniper and thyme
- With emollients

DESCO VITAL is a hydro gel with essential oils derived from spruce needles, eucalyptus, juniper berries and thyme with the aim of revitalizing the skin. DESCO VITAL has a refreshingly cool, relaxing and activating effect after strenuous physical activity. It's suited for use in sports and relaxation massage as well as in nursing care, but also in all other areas where a vitalizing effect is desired. DESCO VITAL has a refreshing, fresh scent and has good skin compatibility, as it is based on pure ethanol and has nourishing properties.

Single Unit	Unit	Content	REF
bottle	6	500 ml	00-609-005-01

Single Unit	Unit	Content	REF
dispenser bottle	20	500 ml	00-605-005



Normal skin



# DESCOLIND COMFORT WASH

Fragranced cleansing lotion

- Fresh scent
- For normal skin
- Mildly cleanses with allantoin, refatting agents and glycerin

DESCOLIND COMFORT WASH is a pH skin-neutral cleansing lotion for the mild cleansing of normal skin and is characterized above all by its pleasant, fresh fragrance. DESCOLIND COMFORT WASH contains allantoin, refatting agents and glycerin, which counteract drying of the skin due to hand washing. The blue coloring of the product makes it easy to check the fill level.

Normal skin



# DESCOLIND COMFORT LIGHT CREAM

Fragranced nourishing cream

- O/W emulsion for normal skin
- Absorbs quickly into skin without greasy residues
- With refatting agents and allantoin
- pH skin neutral

DESCOLIND COMFORT LIGHT CREAM is a pH skin-neutral and high-yield oil-in-water (O/W) emulsion for normal skin. DESCOLIND COMFORT LIGHT CREAM cares for hands following activities that stress skin, such as long periods of wearing gloves, washing hands, and tasks involving contact with moisture. As an O/W emulsion DESCOLIND COMFORT LIGHT CREAM is absorbed quickly, without greasiness, and is ideal for medical staff: despite frequent use, it does not interfere with routine work and the hands remain healthy. The light and nourishing formulation with refatting agents and moisturizing ingredients as well as allantoin ensures that skin feels soft and smooth. The easy-to-apply and fast-absorbing skincare lotion is also suitable for body care and because of its fragrance, it leaves behind an additionally pleasant, nourished feeling.



Single Unit	Unit	Content	REF
dispenser bottle	20	500 ml	00-607-005-01
dispenser bottle	12	1 L	00-607-010-01

Single Unit	Unit	Content	REF
tube	12	100 ml	00-602-001-03
dispenser bottle	20	500 ml	00-602-005-03

Sensitive skin



HACCP

## DESCOLIND PURE WASH

Fragrance-free cleansing lotion

- Color and perfume-free for sensitive skin
- With allantoin, refatting agents and glycerin
- Mild cleansing and pH skin neutral

DESCOLIND PURE WASH is a pH skin-neutral wash lotion for the regular cleansing of sensitive hands and skin. The refatting agents and glycerin reduce drying of the skin during washing. This creamy washing lotion cleans thoroughly and is economical to use. In addition, DESCOLIND PURE WASH is free of fragrance and colorants and is therefore suitable for use on sensitive skin.

Single Unit	Unit	Content	REF
dispenser bottle	20	500 ml	00-631OP-005-01
dispenser bottle	12	1 L	00-631OP-010-01
canister	3	5 L	00-631OP-050-01

Sensitive skin



HACCP

## DESCOLIND PURE LIGHT CREAM

Fragrance-free skin care cream

- O/W emulsion for sensitive skin
- With refatting agents and allantoin
- Absorbs quickly into skin without greasy residues

DESCOLIND PURE LIGHT CREAM is a high-yield, oil-in-water (O/W) emulsion for sensitive skin. In accordance with the requirements of the Employers' Liability Insurance Association for Medical Services and Welfare Work (BGW), our skin caring formulation of DESCOLIND PURE LIGHT CREAM is perfume-free. DESCOLIND PURE LIGHT CREAM soothes and repairs hands following frequent activities that may stress the skin, such as long periods of wearing gloves, washing hands, and tasks involving contact with moisture. As an O/W emulsion DESCOLIND PURE LIGHT CREAM is absorbed particularly quickly, without greasiness, and is ideal for medical staff: despite frequent use, it does not interfere with routine work and the hands remain noticeably cared for. The formulation with refatting and moisturizing ingredients as well as allantoin ensures that skin feels soft and smooth. Also suitable for body care.

Single Unit	Unit	Content	REF
tube	12	100 ml	00-602DS-001
dispenser bottle	20	500 ml	00-602DS-005

Sensitive skin  
Dry skin



HACCP

## DESCOLIND PURE INTENSIVE CREAM

Fragrance-free intensive  
nourishing cream

- Intensive skincare with panthenol, sunflower- and almond oil
- Contains glycerin as a humectant
- Fragrance-free W/O emulsion

DESCOLIND PURE INTENSIVE CREAM is a water-in-oil (W/O) intensive nourishing cream that richly nourishes sensitive and dry skin with refatting ingredients as well as sunflower and almond oil. In accordance with the requirements of the 'German Employers' Liability Insurance Association for Medical Services and Welfare Work (BGW)', our intensive nourishing formulation of DESCOLIND PUREINTENSIVE CREAM does not contain any fragrance. Despite its rich formulation, DESCOLIND PURE INTENSIVE CREAM is quickly absorbed into the skin and is therefore ideal for caring for hands after activities that stress the skin, such as wearing gloves for long periods, washing hands and activities that involve getting the hands wet.

## Skin care for happy, healthy hands

Damaged and stressed skin is a wide spread problem for medical and care professionals as well as for cleaning staff. In order to reduce the risk of skin irritation from regular washing and disinfection, regular use of good quality hand lotion is crucial.

Yet this important step is still underused by most staff. According to a Dutch study from 2018, 70 % of employees, don't apply lotion to their hands before work or during their shift. Providing staff with skin type-appropriate care creams, training courses and regular reminders can help alleviate skin related problems like redness and flaking.



Single Unit	Unit	Content	REF
tube	12	100 ml	00-622IS-001
dispenser bottle	20	500 ml	00-622IS-005

Allergy-prone skin



## DESCOLIND EXPERT WASH

Hypoallergenic cleansing lotion

- Hypoallergenic cleansing lotion for allergy-prone skin
- Colorant and fragrance-free
- With nourishing glycerin and almond oil

DESCOLIND EXPERT WASH is a colorant- and fragrance-free skincare wash lotion for gentle cleansing of allergy-prone hands and skin. The mild wash lotion is based on high-quality ingredients such as glycerin and almond oil as well as particularly skin-friendly cleansing surfactants. The high-quality ingredients in DESCOLIND EXPERT WASH counteract the negative effects of hand washing.

Single Unit	Unit	Content	REF
dispenser bottle	20	500 ml	00-614-005-03
dispenser bottle	12	1 L	00-614-010-03

Allergy-prone skin



DAAB

HACCP

## DESCOLIND EXPERT LIGHT CREAM

Hypoallergenic nourishing cream

- Colorant and fragrance-free O/W emulsion for allergy-prone skin
- With shea butter, almond oil and vitamin E
- Absorbs quickly

DESCOLIND EXPERT LIGHT CREAM is a colorant- and fragrance-free O/W emulsion for the care of sensitive and allergy-prone skin. Particularly high-quality ingredients ensure a smooth and supple skin feeling. DESCOLIND EXPERT LIGHT CREAM contains natural, conditioning substances such as almond oil and shea butter. DESCOLIND EXPERT LIGHT CREAM is fragrance-free; therefore, the O/W emulsion is particularly suited for use by atopic persons and persons with allergies.

Single Unit	Unit	Content	REF
tube	12	100 ml	00-620HC-001-01
dispenser bottle	20	500 ml	00-620HC-005-01



Allergy-prone skin



DAAB

HACCP

## DESCOLIND EXPERT INTENSIVE CREAM

Hypoallergenic intensively  
nourishing cream

- Color and perfume-free W/O emulsion for allergy-prone skin
- With vitamin E, glycerin and beeswax
- Protects the skin from water-soluble substances

DESCOLIND EXPERT INTENSIVE CREAM was specially developed for intensive skincare for allergy-prone skin and for skin protection during everyday work. DESCOLIND EXPERT INTENSIVE CREAM is easy to apply and absorbs quickly, leaving behind a soft, non-greasy protective film. DESCOLIND EXPERT INTENSIVE CREAM is suitable for daily use as well as prior to activities that stresses the skin, to protect hands during wet work and when wearing gloves. In addition to the protective function, DESCOLIND EXPERT INTENSIVE CREAM nourishes the skin with conditioning and moisturizing ingredients as well as vitamin E. Contains 15% lipids.

Allergy-prone skin



DAAB

HACCP

## DESCOLIND EXPERT PROTECT CREAM

Hypoallergenic hand protection  
cream

- Color and perfume-free O/W emulsion for allergy-prone skin
- Protects the skin from water-soluble substances. Protective effect confirmed by test methods (acc. to TRGS 401/ABD)
- With glycerin and lipids as well as witch hazel (a natural deodorant)

DESCOLIND EXPERT PROTECT CREAM was specially developed to protect sensitive and allergy-prone hands during daily work. The oil-in-water protective skin cream is extremely easy to apply and absorbs quickly into the skin. DESCOLIND EXPERT PROTECT CREAM is suitable for daily use prior to activities that stress skin, to protect the hands during wet work. Because the formulation contains the natural deodorant complex, witch hazel, and avoids the use of aluminum salts, the use of DESCOLIND EXPERT PROTECT CREAM is recommended when wearing gloves for long periods of time. The protective effect of DESCOLIND EXPERT PROTECT CREAM with respect to water-soluble substances (surfactants and alkalis) in clinical trials. By avoiding the use of fragrance, DESCOLIND EXPERT PROTECT CREAM meets the requirements of the German employer's liability insurance association, the TRGS 401, as well as the AWMF (Association of the Scientific Medical Societies in Germany) guideline for hand hygiene. The product contains a small amount of a well-tolerated preservative to ensure hygienic use in combination with wall dispensers. In addition to its protective effect, DESCOLIND EXPERT PROTECT CREAM contains conditioning lipids as well as glycerin for a nourishing effect.

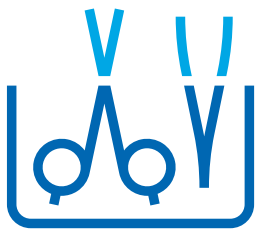


Single Unit	Unit	Content	REF
tube	12	100 ml	00-622OP-001-01

Single Unit	Unit	Content	REF
tube	12	100 ml	00-623-001-01
dispenser bottle	20	500 ml	00-623-005

## INSTRUMENTS

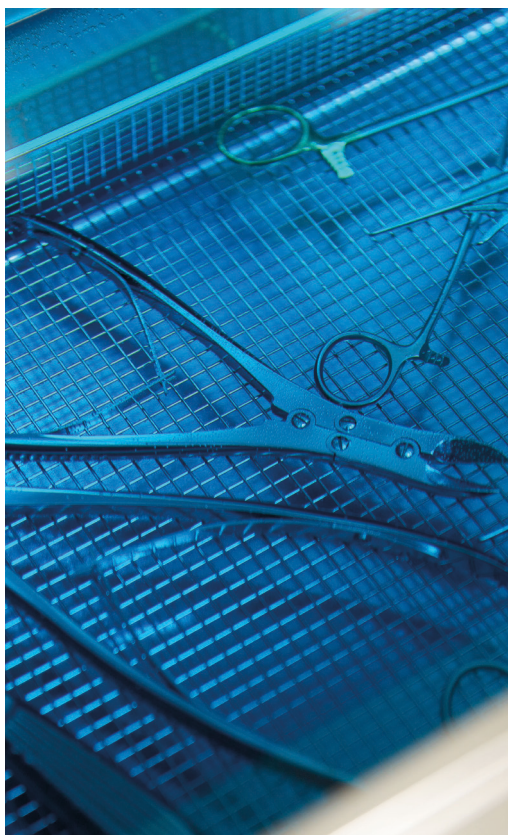
# Manual Reprocessing



### Powerful and user-friendly

Manual cleaning and disinfection of medical instruments requires rapid disinfection with a broad spectrum of efficacy and powerful cleaning performance. The products from Dr. Schumacher are user-friendly and offer good material compatibility. Additionally, we give great importance to environmental safety and compatibility during product development.

Dr. Schumacher instrument cleaners and disinfectants remove contaminants of all kinds safely and effectively and without protein fixation. Our new disinfectant cleaner, PERFEKTAN ENZYME uses a unique blend of 4 enzymes and surfactants to offer effective pre-cleaning of instruments with a pleasant scent.



	Application	Area of use	Active ingredient	Special characteristics	Spectrum of activity <sup>3</sup>	Form
	Surgical Instruments					
	Rigid endoscopes					
	Flexible endoscopes					
	TEE probes					
	Ultrasonic bath					
	Cleaning					
	Disinfection					
	Final virucidal disinfection <sup>1</sup>					
	QAV					
	Alkylamines					
	Glutaraldehyde					
	Enzymes					
	Peracetic acid					
	Low odor					
	Material friendly					
	Corrosion protection					
	pH neutral					
	Fungicidal					
	Tuberculocidal					
	Sporicidal					
	Active against enveloped viruses					
	Virucidal					
	Concentrate					
	Ready-to-use					
PLURAZYME EXTRA <sup>2</sup>	•	•	•	•	•	•
MANUSHIELD CLEANER <sup>2</sup>	•	•	•	•	•	•
ORANGE SOLVENT <sup>2</sup>	•	•	•	•	•	•
PERFEKTAN® ENZYME	•	•	•	•	•	•
PERFEKTAN® NEU	•	•	•	•	•	•
PERFEKTAN® TB	•	•	•	•	•	•
PERFEKTAN® ENDO	•	•	•	•	•	•
DESCOTON EXTRA <sup>1</sup>	•	•	•	•	•	•
PERFEKTAN® ACTIVE <sup>1</sup>	•	•	•	•	•	•

<sup>1</sup> Fully virucidal disinfectants for final instrument disinfection – without subsequent thermal sterilization

<sup>2</sup> Cleaners without disinfecting properties are not included in the Dr. Schumacher hygiene levels

<sup>3</sup> Always includes bactericidal and yeasticidal (*C. albicans*) efficacies





## PLURAZYME EXTRA

Multi-enzymatic cleaner for reprocessing surgical instruments and endoscopes

- Innovative, 3-enzyme formula with a pleasant scent
- Preservation of instruments through neutral pH and coordinated cleaning complex
- Non-fixing – ideal for pre-cleaning

PLURAZYME EXTRA is the ideal cleaning concentrate for the manual reprocessing of a variety of medical devices. The high material compatibility enables the cleaning of surgical instruments, rigid and also flexible endoscopes. The mild fragrance ensures a pleasant user-experience, whether in an immersion or ultrasound bath. The active formula of 3 enzymes and ionic surfactants effectively penetrates a wide range of organic contaminants: from coagulated blood to mucus to fat – without fixation. The high level of compatibility with other cleaners and disinfectants ensures that PLURAZYME EXTRA can be easily and flexibly integrated into your processes.

### Application and dosage recommendation for cleaning

Depending on the degree of pollution	0,4 – 2 % (4 ml/L – 20 ml/L) max. 40 °C mind. 5 min
Recommendation for ultrasonic baths	0,25 % (2,5 ml/L) max. 40 °C mind. 5 min

### Composition – 100 g solution contain

5 – 15 % non-ionic surfactants

Enzymes

preservative 1,2-benzisothiazol-3(2H)-one,  
didecylmethyl poly(oxyethyl)ammonium propionate

Contains perfumes: Limonene

Single Unit	Unit	Content	REF
dispenser bottle	12	1 L	00-138-010E
canister	3	5 L	00-138-050E



## MANUSHIELD® CLEANER

Liquid detergent cleaner for instruments and endoscopes

- pH-neutral and gentle to materials
- Good cleaning strength and easy to integrate
- Perfume-free

MANUSHIELD CLEANER is a pH neutral cleaner concentrate for the cleaning of flexible and rigid endoscopes as well as other surgical, dental and medical instruments. The perfume-free formulation is surfactant-based, extremely efficient, and can be used in ultrasonic baths and in combination with all water hardness levels. In addition, MANUSHIELD CLEANER is compatible with the following Dr. Schumacher disinfectants: PERFEKTAN ENZYME, PERFEKTAN NEU, PERFEKTAN ENDO, PERFEKTAN TB, PERFEKTAN ACTIVE, and DESCOTON EXTRA. This makes it easy to integrate MANUSHIELD CLEANER into reprocessing procedures.

### Application and dosage recommendation for cleaning

Cleaning of endoscopes as well as medical and surgical instruments	1 % (10 ml/L) Depending on the degree of pollution: 0,25 % (2,5 ml/L) – 5 % (50 ml/L)
--	---

### Composition – 100 g solution contain

5 – 15 % non-ionic surfactants

preservative didecylmethyl poly(oxyethyl)ammonium propionate

Single Unit	Unit	Content	REF
bottle	6	2 L	00-104-020-02E
canister	3	5 L	00-104-050-01E





## ORANGE SOLVENT

Special cleaner for removing residues on medical devices

- Effortlessly removes sticky residues and markings
- With natural orange oil
- Extra cleaning power

ORANGE SOLVENT is a ready-to-use cleaning solution for removal of stubborn residues on medical instruments and equipment. Also for removal of adhesive residue, permanent marker and scuff marks on flooring. Effective in small amounts.

## Manual disinfection of flexible endoscopes

Endoscope disinfection is more complicated than other instrument disinfection due to the many small services where contaminants may hide. Because visual inspection all surfaces isn't possible, proper reprocessing procedures are critical for patient safety. Usually, the process is regulated by local guidelines and subject to validation requirements.

Generally, manual reprocessing of endoscopes has an increased potential for errors and an automated reprocessing is preferred whenever possible.

### The following recommendations should be considered for manual disinfection:

- Required spectrum of activity (at least bactericidal, fungicidal, mycobactericidal and virucidal efficacy)
- Concentration and exposure time specified by the manufacturer
- Personnel protection (PPE, avoidance of odor [ventilation, closed reprocessing tubs])
- Renewal of disinfectant solution (in case of contamination; at least every working day)
- Dosing accuracy by using dosing devices and aids

You can find detailed information for proper reprocessing of endoscopes on our website.

[www.schumacher-online.com](http://www.schumacher-online.com)



Single Unit	Unit	Content	REF
bottle	9	250 ml	00-805-0025
bottle	6	500 ml	00-805-005



# PERFEKTAN® ENZYME

## Multi-Enzymatic Disinfecting Cleaner

PREVENT



- High material compatibility with neutral pH
- For effective non-fixing enzymatic pre-cleaning
- Disinfectant effect with pleasant scent
- 4 enzyme formulation with QACs

### Multi-enzymatic disinfecting cleaner for the reprocessing of instruments and endoscopes

PERFEKTAN ENZYME is the ideal disinfectant cleaner for the manual reprocessing of thermostable and thermolabile medical devices. Through its high-performance multi-enzyme complex made of four enzymes and selected surfactants, PERFEKTAN ENZYME yields an excellent cleaning result, removing organic contamination without protein fixation. The fresh scent creates a pleasant user experience and QACs disinfect, adding an advantage in terms of occupational safety. This formula is aldehyde and amine-free. The neutral pH ensures good material compatibility and value retention of medical devices. PERFEKTAN ENZYME is also suitable for use in an ultrasonic bath. In addition, PERFEKTAN ENZYME can be used for the reprocessing of flexible endoscopes and is fully compatible with THERMOSHIELD NR and THERMOSHIELD DESINFECTANT

#### Spectrum of efficacy and contact time

	PREVENT	PRESERVE	PROTECT
Application recommendation for disinfecting cleaning of flexible endoscopes and for disinfection of surgical instruments	3 % – 5 min 1 % - 15 min		

#### Composition – 100 g solution contain

17,5 g N,N-didecyl-N-methyl-poly(oxyethyl)ammoniumpropionate

0,5 g N,N-Didecyl-N,N-dimethylammoniumcarbonate

5 - 15 % Non-ionic surfactants

preservative 1,2-Benzisothiazol-3(2H)-one

Contains perfumes: Limonene, Linalool, Geraniol

Enzymes

Single Unit	Unit	Content	REF
dispenser bottle	12	1 L	00-128-010E
bottle	6	2 L	00-128-020E
canister	3	5 L	00-128-050E

## High material compatibility with neutral pH

The manual reprocessing of sensitive medical products places increased demands on your safety - PERFEKTAN ENZYME is designed for these situations. In addition to good cleaning performance, you can rely on the disinfection effect of PERFEKTAN ENZYME for your protection.



### For effective, non-fixing, enzymatic pre-cleaning

The 4 enzyme complex is not only composed of amylase, lipase and protease, but also contains an additional cellulase. Furthermore, surfactants in this pH-neutral formulation ensure thorough and gentle cleaning with good material compatibility for classical surgical instruments as well as sensitive medical products.

### Disinfection for your protection

This innovative QAC based formulation offers bactericidal and yeasticidal efficacy and is effective against all enveloped viruses. The aldehyde-free, amine-free formulation was specifically designed to avoid protein fixation and ensure compatibility with other with other reprocessing chemicals. PERFEKTAN ENZYME may be used in immersion baths as well as ultrasonic baths and offers a mild, but pleasant scent to improve the user experience.

**PERFEKTAN ENZYME can be used for the reprocessing of flexible endoscopes and is fully compatible with:**

**THERMOSHIELD NR // THERMOSHIELD DESINFECTANT**



**THERMOSHIELD®  
DESINFECTANT**  
S. 88



**THERMOSHIELD® NR**  
S. 90



## Advantages of PERFEKTAN EN- ZYME

bactericidal, yeasticidal,  
enveloped viruses

**in 5 Min.**

Disinfecting cleaner

**Aldehyde and  
Amine-free**

**QAC-based**

**Innovative mix of  
4 enzymes**  
for optimal cleaning

Suitable for use in

**ultrasound baths**



**PREVENT****PERFEKTAN® NEU**

Aldehyde-free concentrate for instrument cleaning and disinfection

- Tuberculocidal
- Excellent cleaning properties
- Ideal for use with ultrasonic baths

PERFEKTAN NEU is a liquid concentrate with powerful cleaning properties based on alkylamines. The efficient aldehyde- and phenol-free formulation offers high material compatibility as well as user-friendly instrument reprocessing and inhibits protein fixation during cleaning. Due to the disinfecting properties of PERFEKTAN NEU, user safety is guaranteed. PERFEKTAN NEU is ideally suited for the non-fixing cleaning of endoscopes as well as use in ultrasonic baths.

**Spectrum of efficacy and contact times**

	<b>PREVENT</b>	<b>PRESERVE</b>	<b>PROTECT</b>
Application recommendation for use for disinfecting cleaning of flexible endoscopes and surgical instruments	2 % - 30 min		
Application recommendation for use for tuberculocidal disinfection of medical devices	2 % - 60 min		

**Composition – 100 g solution contain**

3,6 g N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine

15 - 30 % non-ionic surfactants

Contains perfumes: Limonene, Citronellol

Single Unit	Unit	Content	REF
dosage bottle	10	1 L	00-136-010E
canister	3	5 L	00-136-050E

**PREVENT****PERFEKTAN® TB**

Aldehyde free concentrate for instrument cleaning and disinfection

- Aldehyde-free preparation with good cleaning power
- Gentle on materials
- Pleasant scent

PERFEKTAN TB is an economical, material-friendly, active-cleaning instrument disinfectant for routine clinical use. Thanks to the exceptional antimicrobial efficacy a high degree of personal protection is assured during instrument reprocessing. PERFEKTAN TB is characterised by a pleasant smell thanks to the aldehyde-free formulation and is suitable for use on medical instruments.

**Spectrum of efficacy and contact times**

	<b>PREVENT</b>	<b>PRESERVE</b>	<b>PROTECT</b>
Application recommendation for disinfecting cleaning or disinfection of surgical instruments	3 % - 15 min 2 % - 30 min 1 % - 60 min		

**Composition – 100 g solution contain**

3,75 g Cocosporylendiamine-1,5-bis-guanidinium-diacetate

5,6 g N, N-didecyl-N-methyl-poly(oxyethyl)ammonium propionate

5 - 15 % non-ionic surfactants

Contains perfumes: Limonene

Single Unit	Unit	Content	REF
dosage bottle	10	1 L	00-122-010E
bottle	6	2 L	00-122-020E
canister	3	5 L	00-122-050E



**PREVENT****PROTECT****PERFEKTAN® ENDO**

Aldehyde-free concentrate for instrument cleaning and disinfection

- Gentle on materials
- Ideal for disinfecting pre-cleaning of endoscopes
- Preparation with good cleaning strength

PERFEKTAN ENDO is a material-friendly, active-cleaning instrument disinfectant based on a patented mixture of active ingredients. PERFEKTAN ENDO is an aldehyde and phenol-free disinfectant cleaner with good cleaning properties and is ideally suited for non-fixing pre-cleaning and disinfection of instruments and endoscopes. Thanks to the exceptional antimicrobial effectiveness, a high degree of personal protection is assured during instrument processing.

**DESCOTON EXTRA**

Disinfectant for instruments and endoscopes

- Virucidal according to harmonized EN norm
- Formaldehyde-free concentrate
- Suitable for final disinfection

DESCOTON EXTRA is a fast acting, virucidal, liquid concentrate for disinfecting endoscopes and surgical instruments. The formaldehyde-free product formulation is characterised by economical concentrations, broad effectiveness (incl. virucidal and TB efficacy) and good material compatibility. DESCOTON EXTRA is ideal for virucidal final disinfection of flexible and rigid endoscopes as well as medical instruments.

**Spectrum of efficacy and contact times****PREVENT PRESERVE PROTECT**

Application recommendation for disinfecting cleaning of flexible endoscopes and surgical instruments

3 % - 15 min  
2 % - 30 min  
1 % - 60 min

**Composition – 100 g solution contain**

3,75 g Cocosporylendiamine-1,5-bis-guanidinium-diacetate  
5,6 g N, N-didecyl-N-methyl-poly(oxyethyl)ammonium propionate  
5 - 15 % non-ionic surfactants  
Contains perfumes: Limonene

Single Unit	Unit	Content	REF
dosage bottle	10	1 L	00-121-010E
bottle	6	2 L	00-121-020E
canister	3	5 L	00-121-050E

**Spectrum of efficacy and contact times****PREVENT PRESERVE PROTECT**

Recommendation for use for bactericidal, yeasticidal, tuberculocidal, mycobactericidal (M. avium, M. terrae), virucidal  
Final disinfection

3 % - 60 min

**Composition – 100 g solution contain**

12 g Glutaraldehyde

Single Unit	Unit	Content	REF
dosage bottle	10	1 L	00-150-010E
canister	3	5 L	00-150-050E

*Prevent* – Bactericidal, yeasticidal, all enveloped viruses *Preserve* – Bactericidal, yeasticidal, all enveloped viruses, Noro-, Rota- and Adenoviruses, tuberculocidal *Protect* – Bactericidal, yeasticidal, fully virucidal, tuberculocidal, sporicidal.  
Use disinfectants safely. Always read the label and product information before use.



# PERFEKTAN® ACTIVE

## Powder Concentrate for Instrument Disinfection

**PROTECT**

- Very good material compatibility
- Rapid disinfection due to oxidative effect
- Completely soluble

### Powder concentrate for instrument disinfection

PERFEKTAN ACTIVE is a highly effective powder concentrate for manual disinfection of medical instruments. This product is a powder, which dissolves fast and completely in water, for a reliable and safe application. Based on peracetic acid, which is generated in the mildly alkaline solution, PERFEKTAN ACTIVE achieves a maximum spectrum of efficacy with excellent material compatibility, even with sensitive materials like silicone. The oxidative effect of PERFEKTAN ACTIVE provides efficient disinfection through peracetic acid, which breaks down completely into water, acetic acid and oxygen.

#### Spectrum of efficacy and contact times

**PREVENT** **PRESERVE** **PROTECT**

Application recommendation for final disinfection for semi-critical medical devices including rigid and flexible endoscopes

2 % - 60 min  
3 % - 30 min

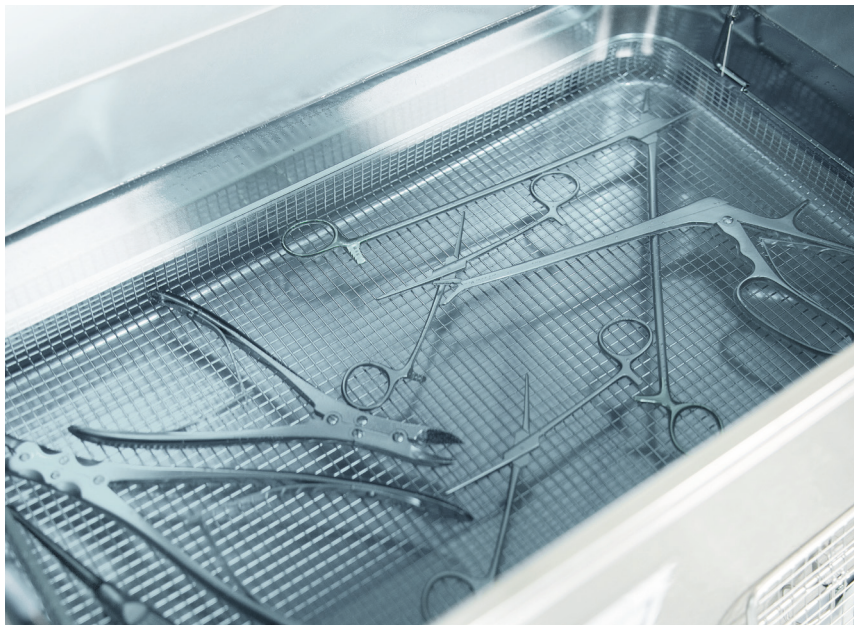
#### Composition

Active ingredient: Peracetic acid (in-situ) > 850 ppm (1 % dilution)

Single Unit	Unit	Content	REF
sachet	100	40 g	00-155-0004
bucket	6	1 kg	00-155-010

## Record times for PERFEKTAN ACTIVE

PERFEKTAN ACTIVE inactivates both *C. difficile* and *C. difficile* ribotype Ro27 in 5 minutes at 1,5 % concentration or in 15 minutes at 1 % concentration, even with heavy soiling.



### Best values for all efficacies

PERFEKTAN ACTIVE not only sets the standard for sporicidal activity, but also offers a full spectrum of efficacy thanks to peracetic acid. Whether bacteria, TB, viruses or spores, PERFEKTAN ACTIVE removes all relevant pathogens within a short exposure time.

### Top of the line material compatibility

PERFEKTAN ACTIVE powdered concentrate proves that broad spectrum of efficacy and near universal material compatibility are not mutually exclusive. It is ideal for the disinfection of sensitive materials such as EPDM and ABS plastics, glass, stainless steel and various elastomers.



## Advantages of PERFEKTAN ACTIVE

Sporicidal according to  
**EN 17126**

effective against both  
**C. difficile and  
B. subtilis**

improved patient  
protection from  
**spores**

fast virucidal and  
**sporicidal  
efficacy**

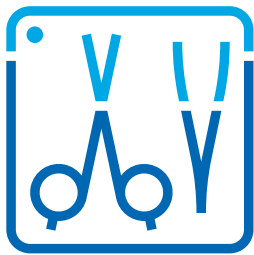
comprehensively  
tested according  
**to international  
standards.**





INSTRUMENTS

# Automated Reprocessing



## Powerful cleaning of medical devices

Cleaning, neutralizing, rinsing, instrument care: The THERMOSHIELD range for automated reprocessing of reusable medical devices has the right product for every step in the reprocessing cycle.

The reprocessing of medical products is aided by the modern and easy-to-use formulations of Dr. Schumacher products. The result is higher safety for patients and hospital personnel.





THERMOSHIELD® DESINFEKTANT	•									•	•				•				
THERMOSHIELD® FLEX																			
THERMOSHIELD® NR	•	•	•						•					•					•
THERMOSHIELD® XTREME	•		•		•	•	•	•	•					•			•	•	
THERMOSHIELD® BASIX	•			•		•			•	•						•			
THERMOSHIELD® C	•		•			•		•		•			•						•
THERMOSHIELD® P	•			•					•			•							•
THERMOSHIELD® SHINE								•			•	•						•	
THERMO CLEAR								•			•	•							•



**PROTECT****NEW**

## THERMOSHIELD® DESINFECTANT

Disinfectant for the chemothermal reprocessing of endoscopes

- Low aldehyde content for a pleasant user experience
- Virtually odour free
- Material-friendly – ideal for flexible endoscopes

THERMOSHIELD DESINFECTANT is a material-friendly and user-friendly preparation for chemothermal disinfection of flexible endoscopes at 55–60°C. In combination with the neutral cleaner THERMOSHIELD FLEX, it offers an optimal solution for gentle cleaning and disinfection in endoscope washers. The preceding manual endoscope preparation can ideally be carried out with MANUSHIELD CLEANER or PLURAZYME EXTRA. THERMOSHIELD DESINFECTANT is particularly material friendly due to its glutaraldehyde-based composition. Since the content of glutaraldehyde is so low in THERMOSHIELD DESINFECTANT, the odour during use is considerably lower than many comparable preparations

### Spectrum of Efficacy and Contact times

**PREVENT PRESERVE PROTECT**

Application recommendation for thermochemical disinfection of flexible endoscopes and all kinds of surgical instruments (55 – 60°C)

1 % – 5 min

### Composition – 100 g solution contain

10 g Glutaral

Single Unit	Unit	Content	REF
flat canister	3	5 L	00-134-050E



## THERMOSHIELD® FLEX

Enzymatic cleaner for chemothermal reprocessing of endoscopes

- Powerful, modern cleaner for flexible endoscopes
- Gentle cleaning action removes organic soiling through use of enzymes and surfactants
- Excellent compatibility, especially for sensitive materials

THERMOSHIELD FLEX is a mildly alkaline, powerful cleaning product specially designed for automated reprocessing of flexible endoscopes and other thermolabile medical devices, such as anesthesia accessories. The synergistic power of enzymes and surfactants removes any organic load, even in narrow lumens, and successfully prevents reattachment. This excellent cleaning performance is verified in accordance with EN 15883-5 and works just as effectively at low temperatures. The mild alkaline pH and gentle cleaning complex give excellent long-term protection of medical devices. THERMOSHIELD FLEX is ideal for use in combination with machine disinfectant THERMOSHIELD DESINFECTANT and also manual cleaners PERFEKTAN ENZYME and PLURAZYME EXTRA. The result is stable and energy-efficient reprocessing that contributes to patient safety and cost reduction.

### Application and dosing recommendation for cleaning

Reprocessing of flexible endoscopes and thermolabile medical devices: depending on soiling	3 – 5 ml/L (0,3 – 0,5 %)
Surgical instruments and additional medical instruments <sup>1</sup>	3 – 10 ml/L (0,3 – 1 %)

### Composition – 100 g solution contain

< 5 % non-ionic surfactants

Enzymes

Single Unit	Unit	Content	REF
flat canister	3	5 L	00-183-050
drumtainer	1	200 L	00-183-FD200

# Powerful endoscope reprocessing



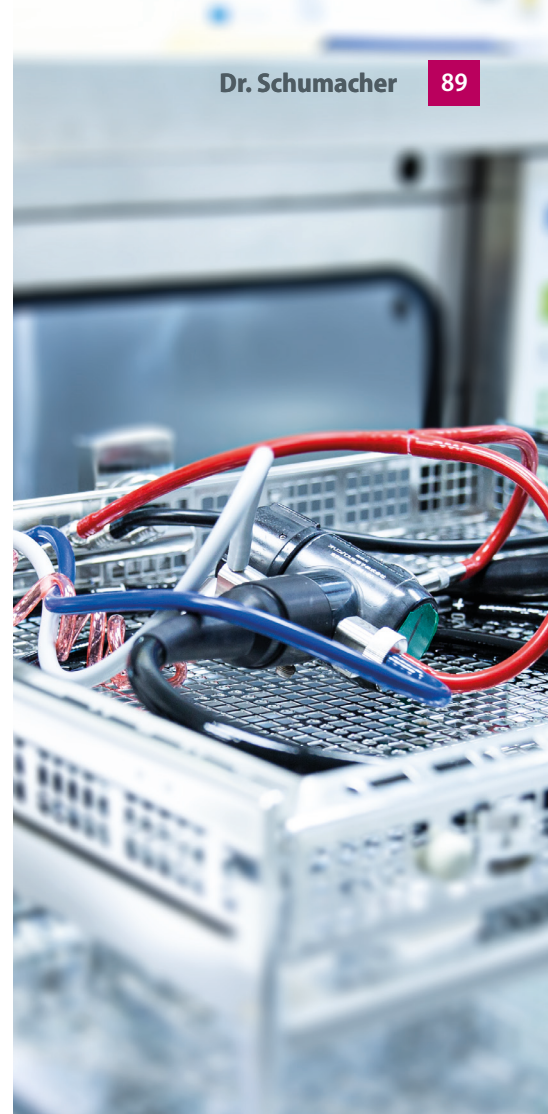
## High-performing down to the last detail

The nature and complexity of surgical instruments as well as rigid and flexible endoscopes require a high degree of care in reprocessing. The focus here is on protecting users and patients as well as protecting the sensitive materials used in these specialized instruments. **THERMOSHIELD FLEX** is ideally matched to the machine disinfectant **THERMOSHIELD DISINFECTANT** and to the manual cleaners **PERFEKTAN ENZYME** and **PLURAZYME EXTRA**, which were developed for the pre-cleaning of flexible endoscopes and thermolabile medical devices.

## Optimal combination

Together, the selected surfactants and enzymes found in **THERMOSHIELD FLEX** form an optimal combination for gentle cleaning of sensitive endoscopes and surgical instruments. The mildly alkaline formulation, which is specifically tailored to materials found in endoscopes, fulfills the hygiene standards and requirements of central sterilization.

**Use THERMOSHIELD FLEX in combination with:**  
**THERMOSHIELD DISINFECTANT // PERFEKTAN ENZYME // PLURAZYME EXTRA**





## THERMOSHIELD® NR

### Cleaner for chemothermal reprocessing of endoscopes

- Suitable for sensitive materials
- Neutral pH saves additional neutralizing agent
- Especially suited for flexible endoscopes

THERMOSHIELD NR is a pH-neutral instrument cleaner for reprocessing of medical instruments and medical devices in washer disinfectors. Due to its enzyme-free formulation THERMOSHIELD NR has been tested intensively for a long period in hospitals and medical practises and can therefore be recommended for all common automatic cleaning machines. A great advantage of THERMOSHIELD NR is the neutral pH-value, which ensures careful and gentle cleaning. Moreover, additional rinsing for neutralisation is not necessary in contrast to all alkaline cleaners. Omitting a neutraliser, the very low use concentration and the fact that the product is biologically degradable (acc. to OECD-guideline 301D) highlight an ecologically convincing product concept. Due to its pH-neutral and virtually non-foaming formulation THERMOSHIELD NR is an ideal pre-cleaner for THERMOSHIELD DESINFECTANT for the automated processing of flexible endoscopes at 55 - 60 °C.

#### Application and dosing recommendation for cleaning

Reprocessing of surgical instruments and other medical devices, depending on soiling	3 – 7 ml/L (0,3 – 0,7 %)
For reprocessing of endoscopes	4 – 6 ml/L (0,4 – 0,6 %)

#### Composition – 100 g solution contain

5 – 15 % non-ionic surfactants

Corrosion inhibitors

Single Unit	Unit	Content	REF
flat canister	3	5 L	00-119-050-02E



## THERMOSHIELD® XTREME

### Mildly alkaline enzymatic cleaning agent for automated instrument reprocessing

- Excellent cleaning efficiency
- Innovative combination enzymes and surfactants
- Visible shine and preservation of value of instruments

THERMOSHIELD XTREME is an enzymatic, mild alkaline cleaner for automatic reprocessing of medical and surgical instruments in washer disinfectors. A special complementary combination of surfactants with a highly active enzyme complex ensures optimal cleaning. The synergistic mechanism of action of the ingredients efficiently removes organic contamination such as proteins, blood, residual tissue and fatty residues. THERMOSHIELD XTREME can be used without additional neutralizers or rinse aids when demineralized water is used. At the same time, THERMOSHIELD XTREME is particularly gentle to materials and even sensitive materials, such as anodized aluminum, can be reprocessed. The recommended working concentrations correspond to a pH of more than 10. Even in the case of particularly stubborn organic soiling (such as on bone punches), very good results can be achieved with THERMOSHIELD XTREME through manual pre-cleaning in the ultrasonic bath combined with automated reprocessing.

#### Application and dosing recommendation for cleaning

Application recommendation for cleaning Depending on the degree of contamination and area of use:	3 – 10 ml/L exposure time 10 min bat 55 °C
--	---

#### Composition – 100 g solution contain

< 5 % ionic surfactants

5 – 15 % non-ionic surfactants

Enzyme

Single Unit	Unit	Content	REF
flat canister	3	5 L	00-170-050E
canister	1	10 L	00-170-100E



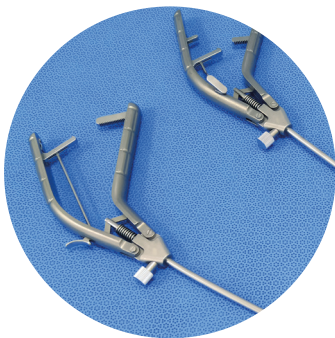
# A difference you can see



SURGICAL INSTRUMENTS



PLASTICS



MICRO TOOLS



RIGID OPTICS

## Easy and safe cleaning

The complexity of highly sensitive surgical instruments increasingly requires a reliable, effective cleaning process. With **THERMOSHIELD XTREME**, Dr. Schumacher GmbH offers an outstanding solution to prevent microbial contamination and enable the effective, complete removal of stubborn organic contamination.

## A versatile performer

**THERMOSHIELD XTREME** is a multitasking cleaner. In addition to its primary use in automated reprocessing, **THERMOSHIELD XTREME** delivers outstanding results in both in manual pre-cleaning and use in ultrasonic baths.



## Advantages of THERMOSHIELD XTREME

### TOP CLEANING PERFORMANCE

The perfect interplay of surfactants and enzymes results in an optimal cleaning result. This provides increased safety, and reduces the need for pre- and post-cycle reprocessing of instruments.

### MILDLY ALKALINE ENZYMATIC CLEANING

Care elements extend the value retention of instruments ensuring cost savings, as well cared for instruments can be used longer.

### EXCELLENT MATERIAL COMPATIBILITY

The compatibility of **THERMOSHIELD XTREME** with diverse materials reduces the number of products needed for reprocessing and can help optimize logistics.





## THERMOSHIELD® BASIX

Alkaline, surfactant-free liquid cleaner for automated instrument reprocessing

- Protects instruments and machines with corrosion inhibitors
- Surfactant-free, low-foaming formulation
- pH > 10 at the working concentration

THERMOSHIELD BASIX is a highly alkaline, surfactant-free cleaner for the machine reprocessing of surgical instruments, laboratory equipment and bedpans in washer disinfectors. The good cleaning performance in relation to blood and other protein-containing contaminants is due to the high alkalinity of THERMOSHIELD BASIX. Because of its good material compatibility and corrosion inhibitors, both instruments and the machine are protected. The recommended working concentrations correspond to a pH of more than 10.



## THERMOSHIELD® C

Neutraliser for automated instrument reprocessing

- Based on citric acid
- Efficient neutralisation
- Gentle reprocessing of sensitive instruments

THERMOSHIELD C is a liquid concentrate for use as a neutralising agent in the automated reprocessing of medical instruments following the use of an alkaline product such as THERMOSHIELD BASIX or THERMOSHIELD XTREME in the cleaning step. The acidic pH value of THERMOSHIELD C keeps both instruments and the machine free of inorganic deposits, especially lime residues. By using THERMOSHIELD C in neutralisation it is possible to protect especially sensitive materials and prevent entrained remains of alkali from the cleaning step.

### Application and dosing recommendation for cleaning

Depending on soiling and area of application

2 – 8 ml/L (0,2 – 0,8 %)

### Composition – 100 g solution contain

< 5 % phosphonates

Single Unit	Unit	Content	REF
flat canister	3	5 L	00-173-050E
canister	1	10 L	00-173-100E

### Application and dosing recommendation for cleaning

For neutralization, depending on pH value and water hardness

1 – 3 ml/L (0,1 – 0,3 %)

### Composition – 100 g solution contain

organic acids

Single Unit	Unit	Content	REF
flat canister	3	5 L	00-180-050E



## THERMOSHIELD® P

### Neutraliser for automated instrument reprocessing

- Based on phosphoric acid
- Preservation of value of the instruments using basic cleaning
- Prevents inorganic residues

THERMOSHIELD P is a liquid neutraliser concentrate based on phosphoric acid for the use in automatic reprocessing of medical instruments. After usage of alkaline cleaners like THERMOSHIELD BASIX or THERMOSHIELD XTREME during the cleaning step, THERMOSHIELD P provides an efficient neutralisation. THERMOSHIELD P is ideally suitable for hard water and helps to prevent inorganic deposits and lime residues. Inorganic, acid soluble soilings as well as discolorations can be removed reliably, which makes THERMOSHIELD P ideal for basic cleaning.

#### Application and dosing recommendation for cleaning

For rinsing, depending on pH value and water hardness

1 – 3 ml/L (0,1 – 0,3 %)

#### Composition – 100 g solution contain

inorganic and organic acids

Single Unit	Unit	Content	REF
flat canister	3	5 L	00-181-050E



## THERMOSHIELD® SHINE

### Rinsing agent for automated instrument reprocessing

- Time saving due to rapid and thorough drying
- Acid pH value prevents limescale build-up and deposits
- Preserves the quality of instruments

THERMOSHIELD SHINE is a liquid concentrate desposit, especially lime residues, rinsing aid for use in washer disinfectors and thermal disinfectors for the reprocessing of medical and dental instruments as well as medical devices. The dosage is carried out automatically using a dosing pump or using the rinsing aid compartment of the machine and is added during the final rinse. Thanks to its acidic pH THERMOSHIELD SHINE prevents the formation of rust on the instruments and in the machine. As a result of the rapid drying action achieved with THERMOSHIELD SHINE, the formation of water spots is prevented, saving time in reprocessing.

#### Application and dosing recommendation for cleaning

For rinsing, depending on pH value and water hardness

0,1 – 0,3 ml/L (0,01 – 0,03 %)

#### Composition – 100 g solution contain

organic acids

< 5 % non-ionic surfactants

Single Unit	Unit	Content	REF
dispenser bottle	12	1 L	00-182-010E
flat canister	3	5 L	00-182-050E





## THERMO CLEAR

Clear-rinsing agent for thermal bedpan cleaning machines

- Prevents calcification of bedpan washing machines
- Ensures spotless drying of the bedpans
- Low foaming

THERMO CLEAR is suitable for chemothermal reprocessing of bedpans in thermal bedpanwashers. It ensures spotless drying of the bedpan, prevents the cleaning machine for bedpans from calcification and is low-foaming. THERMO CLEAR is biodegradable acc. to EU detergent regulation because it is based on citric acid.



## SPEZIAL ÖLSPRAY

Spray for maintenance of instruments

- Based on medical-grade white oil
- For hand-piece maintenance and lubrication prior to steam sterilization
- Optimal lubrication of moving instrument parts

SPEZIAL ÖLSPRAY is an aerosol spray for the maintenance of medical instruments, especially for articular instruments. For the maintenance of hinges and valves of rigid endoscopes. The special spray valve provides a fine, even protective layer. A subsequent sterilisation after the application on the instruments is not affected by this protective layer. SPEZIAL ÖLSPRAY preserves the value of your instruments thanks to an optimal lubrication and an effective corrosion inhibition. Due to the use of paraffinum liquidum, SPEZIAL ÖLSPRAY is compatible with most materials and toxicologically harmless according to drug and food laws

### Application and dosing recommendation for cleaning

Dosing is dependant on the machine type and water hardness. Check with the department personnel!

1 – 3 ml/L  
see manufacturer's instructions  
(0,1 – 0,3 %)

### Composition – 100 g solution contain

< 30 % Organic acids

complexing agents

corrosion inhibitors

Single Unit	Unit	Content	REF
flat canister	3	5 L	00-127-050E
canister	3	5 L	00-127-050

### Composition

medical grade white oil according to DAB 10 (Paraffinum liquidum)

propellant Propan/Butan

Single Unit	Unit	Content	REF
aerosol spray	12	500 ml	00-108-005





## MDR certified

As humans, we seek safety in the things and products that surround us. Effective protection is especially important to us when it comes to hygiene. If a hygiene product does not immediately seem safe or if we have any doubts, we are reluctant to use it. This is especially true when hygiene solutions come into contact with our skin or the skin of others. At Dr. Schumacher, you don't have to worry about that because we only offer medical devices that meet the requirements of the European Medical Device Directive (MDR). As a manufacturer, we are also MDR certified.

### Tested product quality

Thanks to uniform European standards, we and our customers know that the products are effective and safe to use. This gives us and the users of our medical devices a sense of security, as the MDR certificate once again confirms the continued high quality of the medical devices we have been developing for a long time.



## APPLICATION AIDS

# Wall Dispensers and Dosage Aids



### Long service life and high-quality workmanship

The application aids from Dr. Schumacher guarantee the right dosage, concentration and application of cleaning and disinfection products. Thanks to the use of high-quality materials, you can expect our accessories to have a long, maintenance-free life.

Whether dosing aids, spray heads, measuring cups or instrument trays – all Dr. Schumacher accessories contribute to the economical use of products and simplification of work processes.





# AK PLUS 500/1000 with stainless steel pump

Arm lever wall dispenser in  
aluminium housing

Arm lever wall dispenser in aluminium housing with exchangeable stainless steel pump. Easy removal without disassembly. The dispenser is suitable for 500 ml or 1 L bottles and doses 1.5 ml per stroke (other dosage calibration possible). The AK 500/1000 PLUS wall dispenser is may be reprocessed using autoclave.

Single Unit	Unit	Size	REF
AK 500/1000 PLUS – (long lever)			
wall dispenser	1	500 ml	00-901-005-01
wall dispenser	1	1 L	00-901-010-01

Single Unit	Unit	Size	REF
AK 500/1000 PLUS – (short lever)			
wall dispenser	1	500 ml	00-903-005-01
wall dispenser	1	1 L	00-903-010-01



## AK PLUS 500/1000 without stainless steel pump-

Arm lever wall dispenser in  
aluminium housing

Arm lever wall dispenser in an aluminum housing. The dispenser is suitable for 500 ml or 1 L bottles and doses 1.5 ml per stroke (other dosage calibration possible). The AK 500/1000 PLUS wall dispenser is may be reprocessed using autoclave.



## AK 1000 PLUS TOUCHLESS

Touchless wall dispenser in  
aluminium housing

The AK 1000 PLUS TOUCHLESS is a touchless wall dispenser in an aluminum housing with a replaceable stainless steel pump and integrated battery indicator. It offers easy removal without dismantling. The dispenser is suitable for use with 1 L bottles and doses 1.5 ml per stroke (other dosage calibration possible). The AK 1000 PLUS TOUCHLESS dispenser is autoclave and dishwasher safe.

Single Unit	Unit	Size	REF
AK 500/1000 PLUS			
wall dispenser without stainless steel pump	1	500 ml	00-901-005OEP
wall dispenser without stainless steel pump	1	1 L	00-901-010OEP

Single Unit	Unit	Size	REF
AK 1000 PLUS TOUCHLESS			
wall dispenser	1	1 L	00-911-010TO







## SPE 500/1000

Arm lever wall dispenser wall dispenser in plastic design

Arm lever wall dispenser and touchless wall dispenser with integrated collecting tray. Closed dispenser with viewing window. Suitable for 500ml / 1000 ml dispenser bottles. Dosage quantity approx. 1.8 ml/stroke by default, reducible in three steps.

Single Unit	Unit	Size	REF
SPE 500/1000			
wall dispenser	1	500 ml	00-918-005
wall dispenser	1	1 L	00-918-010



## SPE 500/1000 TOUCHLESS

Automatic wall dispenser in plastic design

Automatic wall dispenser with integrated drip tray. Closed dispenser with viewing window. Suitable for 500 ml or 1 L dispenser bottles and doses approx. 1.8 ml per stroke (other dosage calibration possible).

Single Unit	Unit	Size	REF
SPE touchless			
wall dispenser	1	500 ml	00-911-005TL-01
wall dispenser	1	1 L	00-911-010TL

# Properly install and maintain your wall dispenser

The use of dosing dispensers facilitates a user-friendly application of hand disinfectants, washing lotions and care creams. The dispensers ensure a high level of hygiene compliance and simplify work processes.

When installing wall dispensers, pay attention to the following points:

## Visibility

The dispensers must be placed in the staff's field of vision.

## Tangibility

Dispensers should be easy to find and use.

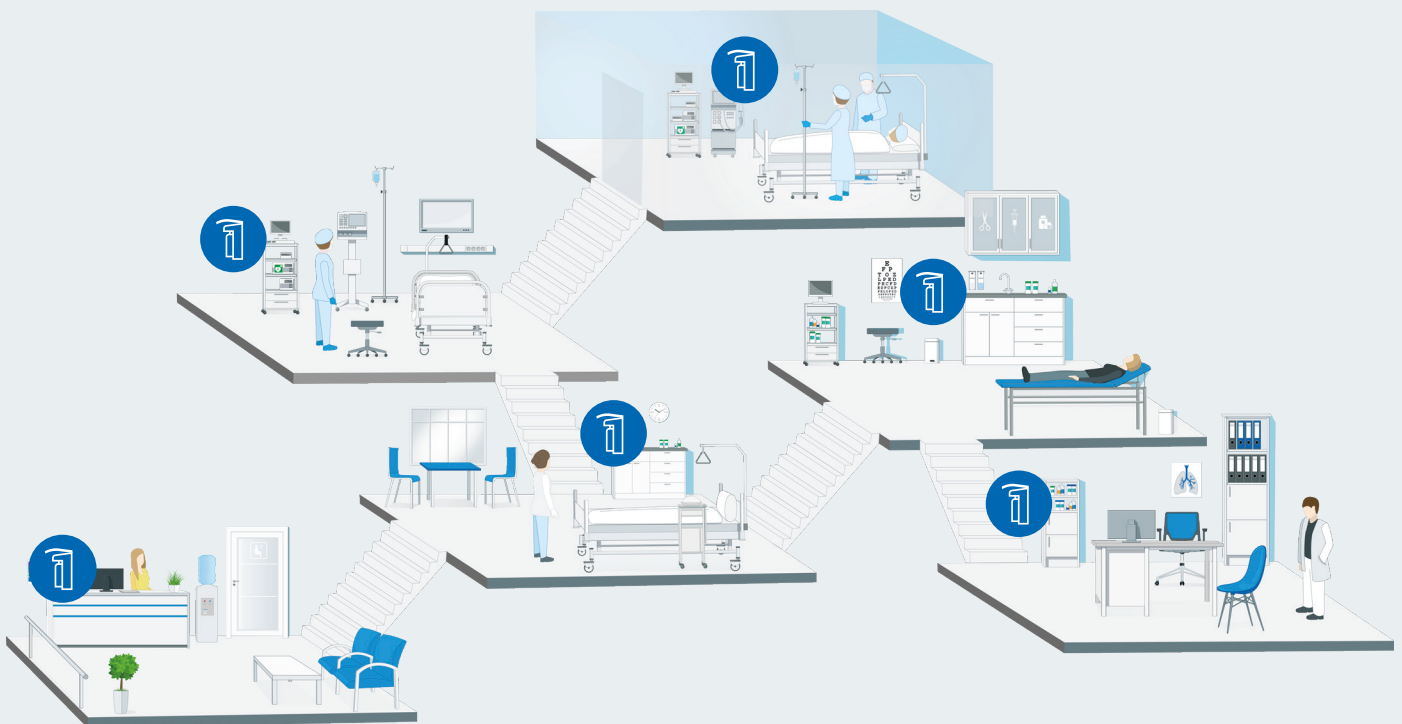
## Functionality

The dispensers should work and be regularly refilled.

Correct application is particularly crucial at the **"point of care" (POC)**. At the POC the three elements of the healthcare come together: the patients, the staff and the treatment. Dispensers must therefore always be installed close to the patient in order to ensure hygiene standards and protect the patients and staff. Poorly maintained dispenser can result in contamination of the contents and the dispenser's surroundings. To prevent colonization, dosing dispensers should be regularly cleaned and disinfected.

Visit our website for more resources on installing and maintaining dispensers including checklists and guides.

[www.schumacher-online.com](http://www.schumacher-online.com)





## DESCOFLEX MOBILE HOLDER

For variable installation of dispenser bottles

DESCOFLEX MOBILE HOLDER MH is made of chrome-plated stainless steel for variable attachment of dispenser bottles on bed frames, care trolleys etc. Easy to apply and suitable for 500 ml/1 L bottles.



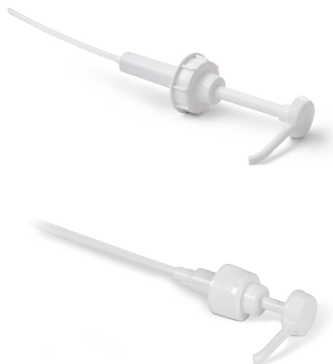
## DESCOFLEX WALL HOLDER

For installation of dispenser bottles at the wall

DESCOFLEX WALL HOLDER is a stable plastic construction which is suitable for wall mounting. The holder can be used in combination with 500 ml/1000 l dispenser bottles.

Single Unit	Unit	Size	REF
bottle holder MH	1	500 ml/1 L	00-902-MH

Single Unit	Unit	Size	REF
bottle holder	1	500 ml/1 L	00-902-WHEX



## DOSING PUMP

Dosing aid for containers and dispenser bottles

The DOSING PUMP is available in three different versions: dosing pump with 30 ml/stroke, fits 2 L bottles, 5 L or 10 L containers, adapter available on demand for smaller dosing (20 ml, 10 ml). Dosing pump with 3 ml/stroke, fits 500 ml/1 L bottles or dosing pump with 2 ml/stroke, fits 500 ml/1 L bottles.

Single Unit	Unit	Size	REF
dosing pump with 30 ml/stroke	1	2 L/5 L/10 L	00-906-000-01
dosing pump with 3 ml/stroke	1	500 ml/1 L	00-906-005-02
dosing pump with 2 ml/stroke	1	500 ml/1 l	00-906-005EX



## MEASURING AIDS

For surface and instrument disinfection and cleaners

The MEASURING AIDS are available in different versions: 1 L dosing bottle with 60 ml chamber, canister key for opening 5 L and 10 L containers and taps for 2 L bottles with handles and 5 L, 10 L and 30 L containers.

Single Unit	Unit	Size	REF
dosage bottle	1	Dosage: 25 ml – 60 ml	00-904-010
canister opener	1	-	00-909-050
tap	1	2 L/5 L/10 L	00-907-000







## MEASURING JUG/CUP & SPRAY HEADS

For surface and instrument disinfectants and cleaners

The MEASURING JUG (3 L) and CUP (40 ml) are perfect for dosing products for surface and instrument disinfection as well as cleaners.

The SPRAY HEADS are available in different versions: Spray head for 500 ml bottle, spray head for 500 ml/1 L dispenser bottles and foam spray head for 500 ml/1 L dispenser bottles.

Single Unit	Unit	Size	REF
spray head	1	500 ml	00-905-005-01
spray head	1	1 L	00-905-010
foam spray head	1	1 L	00-912-010

Single Unit	Unit	Size	REF
measuring jug	1	3 L	00-906-030
measuring cup	1	40 ml	00-906-0004



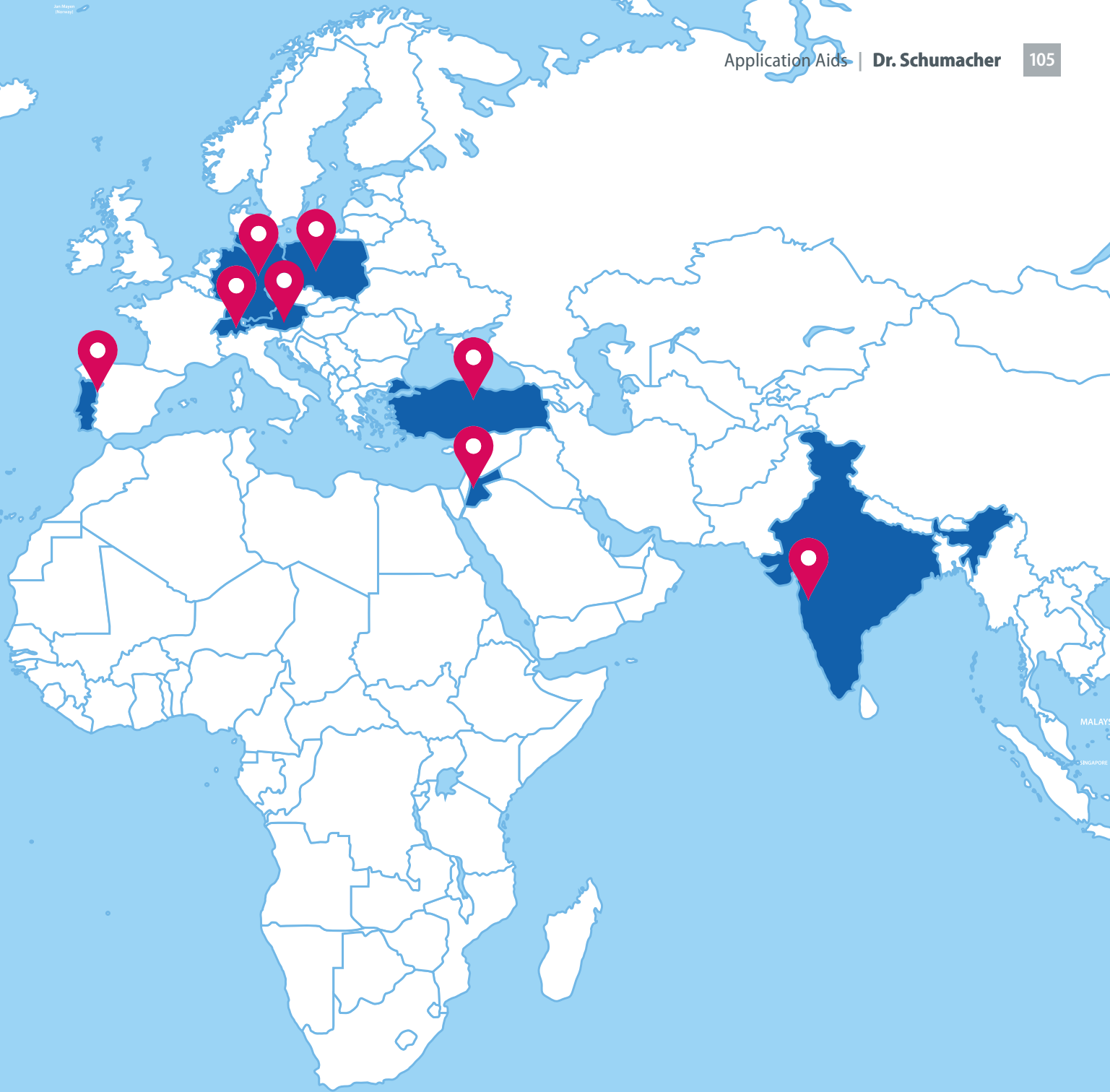
## INSTRUMENT BATH

For instrument processing

- With recessed grips for secure handling
- Practical removable basket insert
- Lid can be tightly sealed to prevent contamination of the room air

Disinfection tubs are required for cleaning and disinfection during manual processing and, if required, as preparation for automated processing of instruments as well as rigid and flexible endoscopes. The disinfection tub has a removable basket insert, a marker indicating the level of solution, a closely fitting white lid and comes in a number of different sizes. All disinfection tubs can be processed automatically. The basket insert enables easy removal of instruments from the cleaning or disinfectant solution. After removing the basket insert from the disinfection tub, they can immediately be rinsed under running water. The tightly sealing lid prevents any contamination of the room air by volatile ingredients.

Single Unit	Tub size L x B x H	Basket Insert Size L x B x H	REF
1 L	223 x 149 x 91 mm	145 x 112 x 70 mm	00-908-010
4 L	343 x 213 x 125 mm	280 x 192 x 112 mm	00-908-040



## A Global Company

Dr. Schumacher's success story began more than 40 years ago in northern Hesse, where our company headquarters remain. Today, we are an international, family business, with operations in 8 countries and customers found in over 70 countries worldwide. Our success is built on close cooperation and extensive exchange between employees.

Together, we protect your health.

### Locations at a Glance

- Germany (HQ)
- Austria
- India
- Jordan
- Poland
- Portugal
- Switzerland
- Turkey



## Index



Products with a patent seal have successfully been awarded a patent or are patent pending.



Product is appropriate for in an HACCP concept (in accordance with Article 5 of the VO (EG) 852/2004).



Guaranteed standing time of 42 days when combined with certified Dr. Schumacher products.



Guaranteed pre-soak time of 15 minutes when combined with certified Dr. Schumacher products.



Product is recommended for whole body patient washing.



Wipe intended for use on **large** surfaces.



Wipe intended for use on **medium** surfaces.



Wipe intended for use on **small** surfaces.

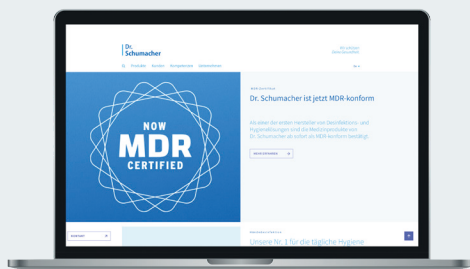
## Company Information

### Publisher

Dr. Schumacher GmbH  
Am Roggenfeld 3  
34323 Malsfeld  
Germany  
T +49 5664 9496-0  
F +49 5664 8444  
info@schumacher-online.com  
www.schumacher-online.com

### Photo credits

Dr. Schumacher GmbH  
iStock.com/gorodenkoff  
iStock.com/Moyo Studio  
iStock.com/kamisoka  
iStock.com/Petmal  
iStock.com/Alī Kahfi  
iStock.com/Tim UR  
iStock.com/AndyL  
iStock.com/cosmin4000  
iStock.com/Julia\_Sudnitskaya  
iStock.com/Martin Barraud  
iStock.com/Zinkevych  
iStock.com/Jan-Otto  
iStock.com/VikiVector  
iStock.com/dima\_sidelnikov  
iStock.com/brizmaker  
iStock.com/Inside Creative House  
iStock.com/AleksandarGeorgiev  
pexels/thirdman  
stock.adobe.com/Halfpoint  
iStock.com/Chainarong Prasertthai  
Seite iStock.com/kzenon  
iStock.com/Pixelci  
stock.adobe.com/Edward  
iStock.com/Hispanolistic  
Gorodenkoff/Shutterstock  
Freepik.com  
iStock.com/Halfpoint  
iStock.com/FredFroese  
stock.adobe.com/Satjawat  
iStock.com/simarik  
iStock.com/Casarsa  
iStock.com/Jacob Wackerhausen  
iStock.com/gilaxia  
iStock.com/Dragos Condrea  
iStock.com/vladans  
iStock.com/YakobchukOlena  
iStock.com/JazzlRT  
iStock.com/monkeybusinessimages  
iStock.com/pinkomelet  
pexels/Ron Lach  
Doro Guzenda/Shutterstock  
iStock.com/sielemann  
iStock.com/gorodenkoff  
iStock.com/kot63  
iStock.com/Senkumar+Alfred  
Fotolivia/Shutterstock  
iStock.com/Oleg Chepurin



# Visit us online

LATEST INFORMATION AND  
WHOLE PRODUCT PORTFOLIO  
OF DR. SCHUMACHER  
YOU WILL FIND AT

[www.schumacher-online.com](http://www.schumacher-online.com)



## Contact

Dr. Schumacher GmbH  
Am Roggenfeld 3  
34323 Malsfeld  
Germany  
P +49 5664 9496-0  
F +49 5664 8444

[international@schumacher-online.com](mailto:international@schumacher-online.com)  
[www.schumacher-online.com](http://www.schumacher-online.com)

