

*We protect
your health.*



Dr. Schumacher

EN



Disinfection, Hygiene and Care

Complete Product Range 2019/20



Simple solutions for a healthy life

With more than 40 years of expertise in disinfection, hygiene and care, Dr. Schumacher GmbH protects personnel and patients against infections and contamination with its products: highly effective, safe and easy to use.

A growing family business

The history of Dr. Schumacher GmbH starts in the north of Germany in 1968: Henning Schumacher becomes an employee in the research and development department of a well-known manufacturer of disinfectants in Hamburg. After several years of successful research, he takes the offer from a large German medical products company in Northern Hesse. Soon thereafter his desire for his own company develops: In 1978 he founds the Dr. Schumacher GmbH and hands over the company to his sons Dierk and Jens in the late 90s, who continue their father's company philosophy: Research and development of new products should continue to be the focus of the family business.

Today, Dr. Schumacher GmbH is one of Europe's leading companies in the development and manufacture of their own and private label / OEM products. Whether hygiene, disinfection and care products for all medical areas, or the consumer-area's baby care, personal

care, cosmetics and household - the company offers its customers a comprehensive full service from one single source. In addition to development, customers benefit from new formulations and application forms, competent advice as well as a broad portfolio of services. The Dr. Schumacher Group currently employs 1,850 people in nine countries and is through a network of distribution partners represented in around 70 countries around the world. However, the company is still loyal to its headquarters in Northern Hesse and employs in Malsfeld-Beiseförth over 350 employees. The Company is one of the largest manufacturers of pre-soaked and dry wipe systems in Europe and has its own non-woven wipe production in Lubań, Poland.

Intensive research and development are the key to success for the Dr. Schumacher GmbH. In the 1980s the company becomes one of the major manufacturers in the field aldehyde-free instrument

"Our focus is on people. For this reason, our R&D team works directly with our customers and end users alike to develop safe and user-friendly products."

JENS SCHUMACHER, CEO



disinfectants and presents as one of the pioneers one of the first highly effective aldehyde and phenol-free surface disinfectants. Shortly thereafter followed the breakthrough with an aldehyde- and phenol-free instrument disinfectant with comprehensive efficacy against tuberculosis bacteria, which corresponded to the guidelines of the German Society for Hygiene and Microbiology e. V. (DGHM). Further generations of manual instrument disinfectants showed a clear direction: Aldehyde-free Dr. Schumacher products with low active ingredient contents and short exposure times achieve an optimal solution according to DGHM guidelines.

Quality at the Highest Level

Our products are developed based on the business philosophy and according to the latest technological findings and procedures, to give users and patients the highest level of user-friendliness and to ensure safety. The Dr. Schumacher GmbH manufactures pharmaceuticals, medical devices, biocides and cosmetics according to GMP

guidelines, ISO 9001 / EN 13485 and cosmetics GMP guidelines. The production process is audited and certified by well-known institutes and major customers.

Competent Advice and Service

Dr. Schumacher employees are available at any time to advice and support customers and interested parties. Anyone interested can also visit the company website www.schumacher-online.com and view as well as download current product information. An extensively trained field service team visits customers regularly to answer questions and solve problems directly where they arise. A close collaboration between the research and development and the medical science departments ensures quick reaction and flexibility to individual needs. Our Team is here for consultation on product applications and hygiene topics and gains important insights from the dialogue with users for continuous development our products and services.

<p>PEFC PEFC/04-31-1628</p>	<p>EMAS GEPRÜFTES UMWELTMANAGEMENT DE-139-00093</p>	<p>TERTIFIZIERT MEDCERT ISO 13485</p>	<p>FSC www.fsc.org FSC® C102853 The mark of responsible forestry</p>	<p>VCI Verband der Chemischen Industrie e.V.</p>	<p>Dr. Schumacher is certified according to DIN EN 13485, DIN EN ISO9001, DIN EN ISO14001, BS OHSAS 18011 and has a validated environment management system according to EMAS and is a member of IHO, VCI, BAH, DGSV and of the DGKH.</p>
<p>Sustaining Member</p>		<p>GMP+ medical good Manufacturing Practice</p>	<p>GMP+ cosmetic good Manufacturing Practice</p>	<p>IHO IHO-DESINFIZIATIONSMITTEL LISTE.DS WISSENSCHAFTL. BEFUGT NACH D. NORDEN</p>	<p>Bundesarbeitsrat der Arzneimittel- Hersteller e.V. B.A.H. beraten • analysieren • handeln</p>

Dr. Schumacher Hygiene Levels

Discover the new simplicity in disinfection and hygiene

The field of disinfection and hygiene is becoming more and more complex. Divergent national provisions, European standards and international guidelines as well as their implementation in the industry leave a great deal of room for interpretation and debate. This creates uncertainty in the market and brings with it the risk that users may no longer have a clear overview.

We want to change that. Dr. Schumacher is putting the emphasis on people again. Our experts have analysed the multifaceted field of disinfection and hygiene and developed a practical approach that offers a simple structure and guidance – for any requirement, in any area of application. With this structure, users know with certainty what measures and products are required in what situations.

Simplicity and transparency are the foundations on which our concept is based. Through the systematic use of hygiene measures – tailored to the potential risk – users can achieve the maximum effect while working efficiently and economically.

With the individual in focus - whether user or patient - we arrive at the three Dr. Schumacher Hygiene Levels:

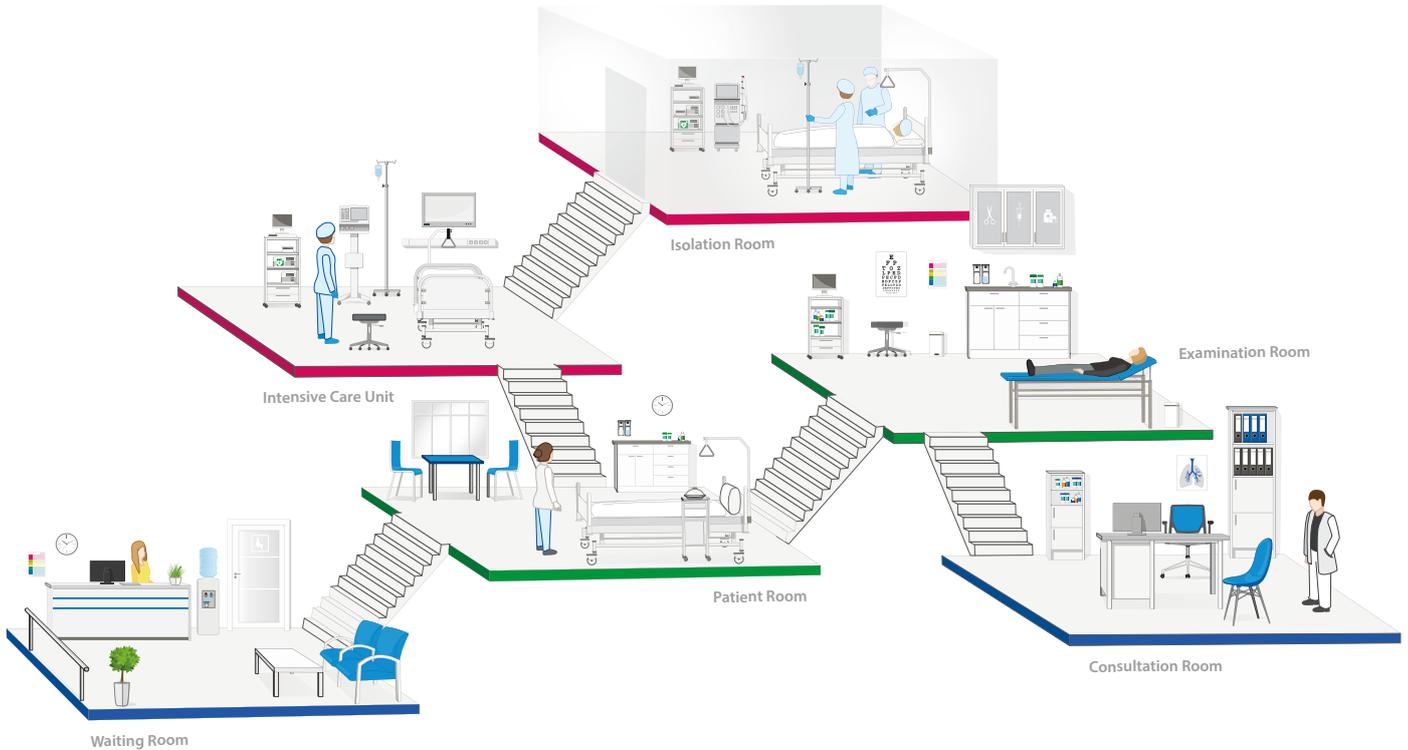
PREVENT :: PRESERVE :: PROTECT

The image below illustrates the system and explains the individual hygiene levels.

Find out more:

www.schumacher-online.com/simple

Possible hygiene architecture within a facility



The distribution is flexible and can be adapted to suit particular requirements. For example, a general patient room at **PRESERVE** level can be elevated to an isolation area at **PROTECT** level in case of an outbreak.



Our concept places the human back in focus
The six essentials of "safety made simple"



The hygiene architect is based on six pillars. We offer orientation and structure by classifying your medical facility into three risk areas based on their hygiene requirements. We then align those requirements with the corresponding products and solutions from Dr. Schumacher with clear, area specific, and practical application recommendations. We support you with a user oriented, product related services and ensure maximum safety in the product application.

PREVENT level includes products that offer basic efficacy against bacteria, yeasts and enveloped viruses and are well suited for routine disinfection.

Products recommended for the **PRESERVE** level are not only effective against bacteria, yeasts and enveloped viruses but also against some non-enveloped viruses: adeno-, noro- and rotaviruses. Thanks to this comprehensive spectrum these products are perfectly suitable for use in near patient areas with higher disinfection requirements.

Products for the **PROTECT** level are specifically designed for applications with increased efficacy requirements.

PROTECT level products are fully virucidal and therefore cover all enveloped and non-enveloped viruses.

The concept allows flexible application with regard to tuberculocidal and sporicidal efficacy.

PREVENT	PRESERVE	PROTECT
Bactericidal, yeasticidal, enveloped viruses	Bactericidal, yeasticidal, enveloped viruses, some non-enveloped viruses: adeno-, noro- and rotaviruses.	Bactericidal, yeasticidal, enveloped viruses, all non-enveloped viruses
Tuberculocidal efficacy	Flexible application	
Sporicidal efficacy		

Dr. Schumacher Hygiene Levels

Discover the new simplicity in disinfection and hygiene

The Dr. Schumacher hygiene level concept unites the individual requirements of the users with corresponding product solutions to create one seamless system. The system is reflected in the product itself, the accompanying product documentation and the service-based documents, offering the user orientation both in terms of selection of the product and its use.

The colour-coding of the hygiene levels **PREVENT :: PRESERVE :: PROTECT** allows intuitive allocation. Especially in regards to daily routine disinfection, in particular, the concept reduces complexity and allows the user to spend more time focusing of the most important thing – the health of the patient.

Example product information (PIF)

PROTECT

CLEANISEPT® WIPES FORTE MAXI

Alcohol-free wipes for rapid disinfection

- Universal, comfortable and time-saving application
- Extensive, rapid efficacy
- Especially suited for disinfection of medium-sized surfaces in areas with increased efficacy requirements

Product description
CLEANISEPT WIPES FORTE MAXI are alcohol-free, ready-to-use disinfection wipes for visual disinfection and cleaning of medical devices and medical equipment as well as all types of surfaces in areas requiring greater efficacy.

Range of application
According Medical Device Directive (MDD): For rapid disinfection and cleaning of alcohol sensitive, non-invasive medical devices as well as ultrasonic probes for transvaginal and abdominal examinations.

According Biocidal Regulation (BPR): For rapid disinfection and cleaning of alcohol sensitive medical equipment and surfaces of every type especially in areas with increased efficacy requirements.

Application
Wipe surfaces with CLEANISEPT WIPES FORTE MAXI until completely wet and allow to dry for the entire contact time.

Application notes
Shelf life after opening: 28 days.

Composition
100 g solution contains:
0.4 g 4-chloro-3-isobutylthiomethylammonium chloride
0.2 g diethylolimidazylammoniumchloride

PRESERVE

DESCOSEPT SENSITIVE WIPES

Alcohol-impregnated wipes for rapid disinfection

- Universal, comfortable and time-saving application
- Broad, rapid efficacy
- Especially suited for disinfection of medium-sized surfaces in near patient areas

Product description
DESCOSEPT SENSITIVE WIPES are alcoholic, ready-to-use wipes for disinfection and cleaning of medical device surfaces, especially sensitive surfaces. DESCOSEPT SENSITIVE WIPES offer a universal and time saving application for the disinfection and cleaning of larger surfaces. The wipes can be extracted individually from the re-sealable and use-friendly dispensers.

Range of application
According Medical Device Directive (MDD): Rapid disinfection of non-invasive alcohol resistant medical devices. Especially suited for displays, keyboards and control surfaces of sensitive medical equipment.

According Biocidal Regulation (BPR): Rapid disinfection and cleaning of alcohol resistant medical inventory and all kinds of surfaces.

Application
Wipe surfaces with DESCOSEPT SENSITIVE WIPES until completely wet and allow to dry for the entire contact time.

Application notes
Shelf life after opening: 3 months.

Composition
100 g solution contains: 45 g quaternary

PREVENT

CLEANISEPT® WIPES MAXI

Alcohol-free wipes for rapid disinfection

- Universal, comfortable and time-saving application
- Basic, rapid efficacy
- Especially suited for disinfection of medium-sized surfaces in routine areas

Product description
CLEANISEPT WIPES MAXI are ready-to-use disinfection wipes for rapid disinfection and cleaning of medical devices and surfaces to medical areas. The wipes are designed to cover most near patient surfaces and medical devices with just one wipe. CLEANISEPT WIPES MAXI are based on modern quarternary ammonium compounds and free of alcohol, aldehydes and glycols. They are therefore particularly suitable for alcohol sensitive medical devices. CLEANISEPT WIPES MAXI can be used in food processing and kitchen areas.

Range of application
According Medical Device Directive (MDD): For rapid disinfection and cleaning of alcohol sensitive, non-invasive medical devices.

According Biocidal Regulation (BPR): For rapid disinfection and cleaning of alcohol sensitive medical equipment and surfaces of every type.

Application
Wipe surfaces with CLEANISEPT WIPES MAXI until completely wet and allow to dry for the entire contact time.

Application note
Shelf life after opening: 3 months.

Example product

Use of the hygiene levels in the complete range catalogue

This complete range catalogue provides the user with an overview of all products available from Dr. Schumacher GmbH. In addition to different product categories, the catalogue also notes the hygiene level for each product, making it easier for you to select the right products for your requirements.

Example product page



ULTRASOL® ACTIVE

Powder concentrate for surface disinfection

- For disinfection with increased efficacy requirements
- Comprehensive and uncompromising efficacy
- Reliable and safe application

PROTECT

ULTRASOL ACTIVE is a highly effective powder concentrate with an excellent efficacy for disinfecting and cleaning of all types of surfaces. ULTRASOL ACTIVE is a low dusting powder and therefore especially reliable and safe in dosage. ULTRASOL ACTIVE is listed in the AB column of the RKI and is suited for surface disinfection in the routine when an increased efficacy is necessary as well as for surface disinfection in outbreak cases. ULTRASOL ACTIVE achieves the highest effectivity range due to the peracetic acid active agent generated in situ, in mild alkaline solution. This product realizes excellent cleaning power while offering superb material compatibility. The efficacy of ULTRASOL ACTIVE is achieved even at high levels of organic contamination; dried-on blood can be easily and safely removed. This perfume-free and odourless product is especially suitable for disinfection in areas where maximum efficacy and outstanding cleaning performance are required.

Active ingredients per 100 g
Peracetic acid (in-situ) > 750 mg/l (1 % solution)

Single Unit	Unit	Content	REF
sachet	100	20 g	00-255-0002
bucket	6	1 kg	00-255-010EXP

Spectrum of Efficacy and Contact Time			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for Surface disinfection	1 % - 5 min 0.5 % - 15 min	1 % - 15 min	2 % - 30 min 1 % - 60 min
Application recommendation for tuberculocidal surface disinfection		2 % - 15 min	
Application recommendation for sporicidal surface disinfection			

Spectrum of Efficacy and Contact Time			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for Surface disinfection	1 % - 5 min 0.5 % - 15 min	1 % - 15 min	2 % - 30 min 1 % - 60 min
Application recommendation for tuberculocidal surface disinfection		2 % - 15 min	
Application recommendation for sporicidal surface disinfection			

Use disinfectants safely. Always read the label and product information before use.
Detailed explanation of level **PREVENT** :: **PRESERVE** :: **PROTECT** efficacies see page 5.*

The efficacy table assigned to each product has also been redesigned to be more user-friendly. Instead of complex, individual efficacies, the table now shows the specific application area and practical recommendations. This allows the user to determine the concentration and contact times for usage at a glance.

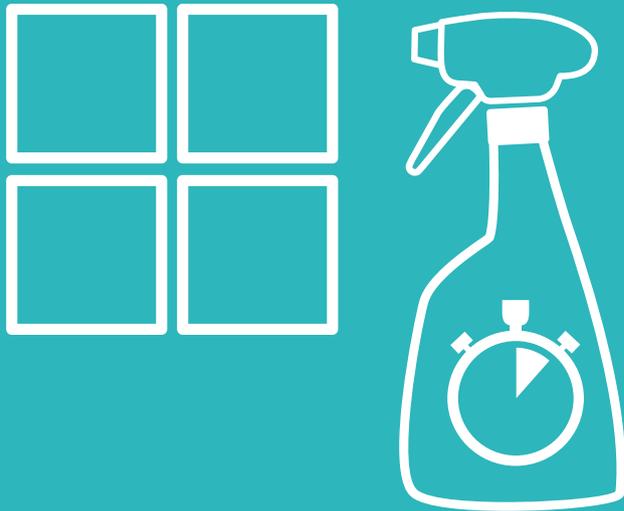
Disinfection, Hygiene and Care

Welcome to Dr. Schumacher.

We put the emphasis on people in everything we do. Whether a hygiene specialist, purchasing agent, user or patient: we offer safe and efficient products for daily use across all medical sectors. Our innovative and high quality products are developed in close cooperation with the end users. Our unbeatable service includes consultations and solutions tailored to your requirements. We offer you complete service and solutions for all aspects of disinfection, hygiene and care.



SURFACE	Rapid Disinfection	10	
	Concentrates for Surface Disinfection	16	
	Rapid Disinfection Wipes	22	
	Disinfection Wipe Systems	30	
HAND AND SKIN	Decontamination	38	
	Hand Disinfection	42	
	Skin Disinfection	48	
	Cleansing Skin Care Wipes	52 56	
	Care and Protection Body Care	58 62	
INSTRUMENTS	Manual Disinfection and Reprocessing	64	
	Automated Reprocessing	72	
	Instrument Maintenance	77	
APPLICATION AIDS	Wall Dispensers and Dosage Aids	78	



Surface

Rapid Disinfection

The focus of any healthcare facility is always on the patient and his or her health. Cleaning and disinfection play an essential role, but they also shouldn't monopolise your time. The ready-to-use disinfectants from Dr. Schumacher GmbH have proven their worth time and time again in professional situations and offer you a wide range of advantages: no need for time-consuming preparation of the solution and no risk of dosing errors. The simple handling of our products allows you and your employees to perform your disinfection responsibilities quickly and safely both in routine disinfection and in cases of heightened efficacy requirements. Reassured that the environment around you is clean and safe, you are then able to concentrate fully on your patient.



	Area of Application			Properties			Active Ingredients				Spectrum of Activity						Form			
	Wipe disinfection	Rapid disinfection	Cleaning	Alcoholic	Alcohol-free	Perfume-free	QAC	Aldehyde	Alkylamines	peracetic acid	Bactericidal	Yeasticidal	Fungicidal	Tuberculocidal	Sporicidal	Active against enveloped viruses	Limited spectrum virucidal activity	Virucidal	Concentrate	Ready-to-use
DESCOCEPT SPEZIAL	✓	✓	✓		✓	✓	✓				✓	✓				✓				✓
DESCOCEPT AF	✓	✓	✓	✓			✓				✓	✓		✓		✓				✓
DESCOCEPT AF LEMON	✓	✓	✓	✓			✓				✓	✓		✓		✓				✓
DESCOCEPT SENSITIVE	✓	✓	✓	✓		✓					✓	✓		✓		✓	✓			✓
DESCOCEPT PUR	✓	✓	✓	✓		✓					✓	✓		✓		✓	✓			✓
DESCOCEPT FORTE	✓	✓	✓	✓		✓					✓	✓	✓	✓		✓	✓	✓		✓

For full information on each spectrum of activity, please consult the corresponding production information sheet (PIF).

DESCOCEPT SPEZIAL

Alcohol-free rapid disinfectant

PREVENT



- Particularly suitable for alcohol-sensitive surfaces
- Strong cleaning power
- Short contact time

DESCOCEPT SPEZIAL is an alcohol-free, ready-to-use solution for rapid disinfection and cleaning of alcohol sensitive medical inventory, medical devices and all kinds of surfaces. Based on quaternary ammonium compounds, it is also suitable for use on acrylic glass. DESCOCEPT SPEZIAL aldehyde, phenol and perfume-free.

applicable
as foam

Composition
100 g solution contain: 0.25 g Didecylmethyl ammonium chloride, 0.5 g Alkyl (C12-16) Dimethylbenzyl ammonium chloride.

Single Unit	Unit	Content	REF
spray bottle	6	750 ml	00-208-0075EXP1-SF
spray bottle	4	1 l	00-208-010EXP1-SF
bottle	12	1 l	00-208-010EXP
canister	3	5 l	00-208-050EXP

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection	1 min		

DESCOCEPT AF

Alcoholic rapid disinfectant

PREVENT



- Ready-to-use rapid disinfectant
- Comprehensive virucidal efficacy including Norovirus (MNV)
- With fresh scent

DESCOCEPT AF is a ready-to-use, aldehyde-free rapid disinfectant based on ethanol and quaternary ammonium compounds. DESCOCEPT AF has a pleasant, fresh scent and is gentle on materials, preventing material discolourations through its aldehyde-free formulation. DESCOCEPT AF is effective against all enveloped viruses and noroviruses (MNV). It is well suited for all surfaces where rapid disinfection is required, e.g. in the following areas:

- near patient surfaces such as patient beds, bedside tables, treatment chairs and vehicles for patient transport
- alcohol resistant surfaces such as bathtubs, toilet seats and transport baskets
- alcohol resistant medical devices such as thermometers, sphygmomanometers and venous tourniquets

applicable
as foam

Composition
100 g solution contain: 42 g (50 % V/V) Ethanol, 0.05 g Didecylmethyl ammonium chloride.

Single Unit	Unit	Content	REF
bottle	10	500 ml	00-311-005
bottle	12	1 l	00-311-010EXP
spray bottle	4	1 l	00-311-010EXP1-SF
canister	3	5 l	00-311-050
canister	1	10 l	00-311-100

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection with mechanical action	2 min		
Application recommendation for surface disinfection without mechanical action	5 min		
tuberculocidal efficacy (EN 14348)		1 min	



PREVENT

DESCOCEPT AF LEMON

Ready-to-use, alcoholic rapid disinfectant

- Aldehyde-free rapid disinfectant
- Comprehensive virucidal efficacy incl. norovirus (MNV)
- With fresh lemon scent

DESCOCEPT AF LEMON is a ready-to-use, aldehyde-free rapid disinfectant based on ethanol and quaternary ammonium compounds. DESCOCEPT AF LEMON offers all the advantages of DESCOCEPT AF, but with a fresh, lemon scent. Its aldehyde-free formulation prevents discolouration of materials and is friendly to skin. DESCOCEPT AF LEMON is effective against all enveloped viruses and noroviruses (MNV).

It is well suited for all surfaces where rapid disinfection is required, e.g. in the following areas:

- near patient surfaces such as patient beds, bedside tables, treatment chairs and vehicles for patient transport
- alcohol resistant surfaces such as bathtubs, toilet seats and transport baskets
- alcohol resistant medical devices such as thermometers, sphygmomanometers and venous tourniquets



applicable
as foam

Composition
100 g solution contain: 42 g (50 % V/V) Ethanol,
0.05 g Didecyltrimethyl ammonium chloride.

Single Unit	Unit	Content	REF
bottle	10	1 l	00-311L-010EXD
canister	3	5 l	00-311L-050EXD
canister	1	10 l	00-311L-100EXD

Spectrum of Efficacy and Contact Times

Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection with mechanical action	2 min		
Application recommendation for surface disinfection without mechanical action	5 min		
tuberculocidal efficacy (EN 14348)		1 min	

AREAS OF APPLICATION FOR RAPID DISINFECTION

Ready-to-use rapid disinfectants are always used if surfaces or medical devices need to be available again for use as soon as possible after disinfection. Typical examples include near patient surfaces or surfaces with frequent hand and skin contact in hospitals and clinics such as examination tables, surgical lamps, hand rails or telephone handsets. The surfaces of medical devices such as ultrasound heads or even operating elements of devices must also be readily available for the next patient after a treatment. Depending on the materials, alcoholic or alcohol-free preparations can be used. For alcohol-sensitive materials such as acrylic glass, only alcohol-free rapid disinfectants should be used.

DESCOSEPT SENSITIVE

Alcoholic rapid disinfectant

PRESERVE



- Ideal for safe disinfection in daily routine
- Comprehensive, fast effectiveness
- Very good material compatibility

DESCOSEPT 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 areas near patients in which a broad spectrum of activity is required. In addition to efficient disinfection in next to no time, the product also displays excellent material compatibility and does not leave behind any streaks or residues.

Composition
100 g solution contain: 45 g Ethanol.

Single Unit	Unit	Content	REF
spray bottle	6	750 ml	00-323DS-0075EXP1
bottle	10	1 l	00-323DS-010
canister	3	5 l	00-323DS-050

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection with mechanical action	2 min	3 min	
Application recommendation for surface disinfection without mechanical action	1 min	3 min	
Application recommendation for tuberculocidal surface disinfection with mechanical action		3 min	
Application recommendation for tuberculocidal surface disinfection without mechanical action		3 min	

DESCOSEPT PUR

Alcoholic rapid disinfectant

PRESERVE



- Ready-to-use
- Residue-free
- Perfume-free

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 residue and perfume-free. It is therefore especially practical for rapid disinfection in large kitchens and the food industry in general.

Composition
100 g solution contain: 45 g (53 % V/V) Ethanol.

Single Unit	Unit	Content	REF
bottle	10	1 l	00-323-010EXP
canister	3	5 l	00-323-050

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection with mechanical action	5 min	5 min	
Application recommendation for surface disinfection without mechanical action	5 min	5 min	
Application recommendation for tuberculocidal surface disinfection with mechanical action		5 min	
Application recommendation for tuberculocidal surface disinfection without mechanical action		5 min	



PROTECT

DESCOCEPT FORTE

Alcohol-based rapid surface disinfectant

- Virucidal incl. Polio-, Adeno-, Rota- and Noroviruses
- Fast acting
- Perfume-free

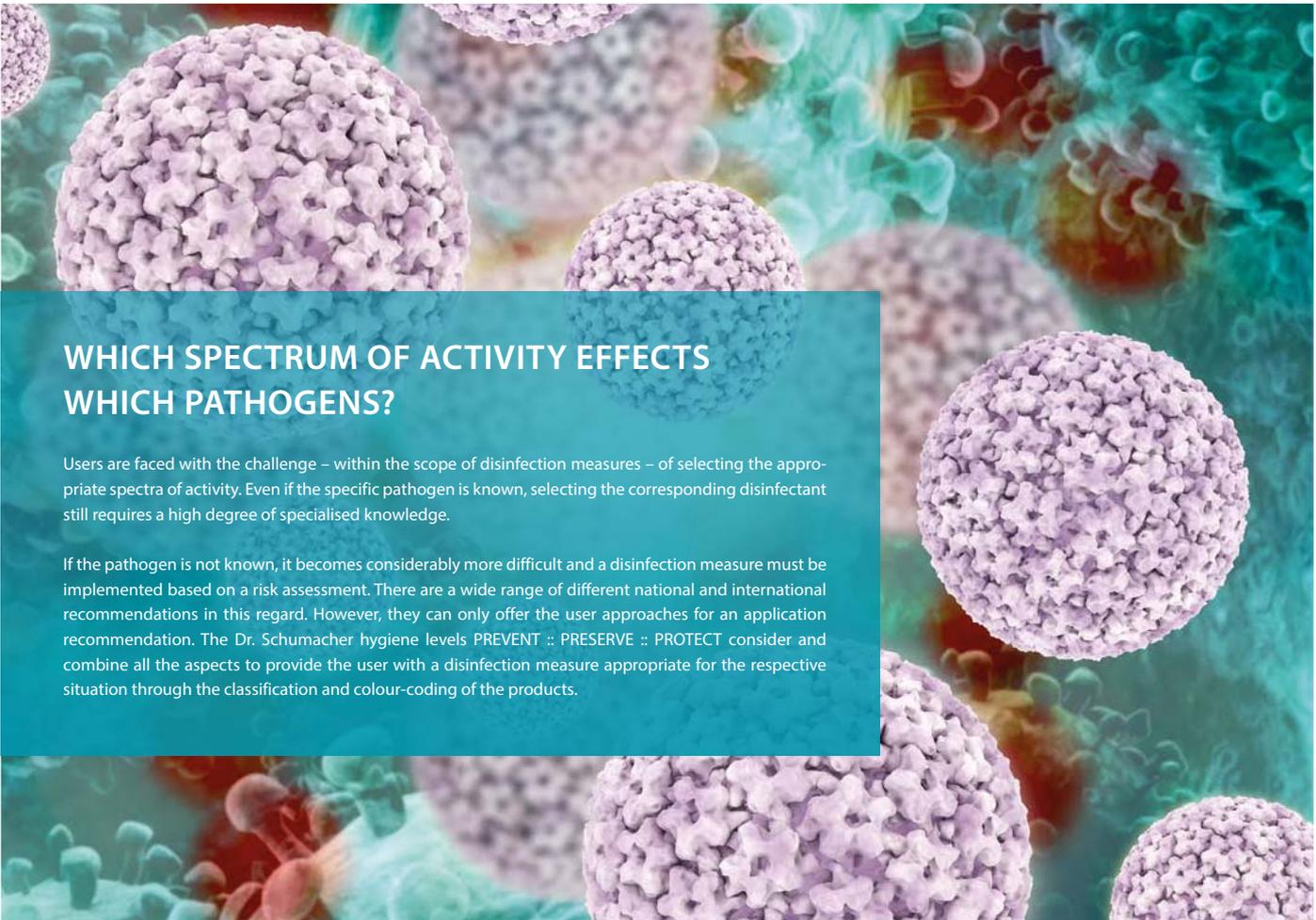
DESCOCEPT FORTE is a ready-to-use, alcohol based (ethanol) rapid disinfectant. The product is specifically designed for applications requiring a targeted virucidal disinfection of alcohol resistant surfaces. Thanks to its innovative SLT booster technology, DESCOCEPT FORTE also ensures an efficient disinfection in cases of high organic soiling (dirty conditions).



Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection with mechanical action	1 min	1 min	1 min
Application recommendation for surface disinfection without mechanical action	5 min	5 min	5 min
Application recommendation for tuberculocidal surface disinfection with mechanical action		1 min	1 min
Application recommendation for tuberculocidal surface disinfection without mechanical action		5 min	5 min

Composition
100 g solution contain: 60 g Ethanol.

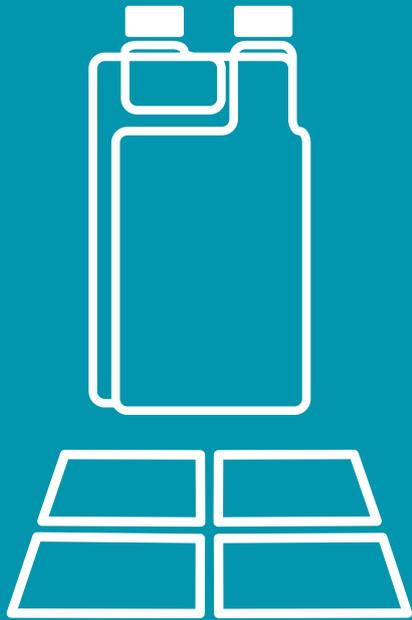
Single Unit	Unit	Content	REF
bottle	10	1 l	00-330-010
canister	3	5 l	00-330-050



WHICH SPECTRUM OF ACTIVITY EFFECTS WHICH PATHOGENS?

Users are faced with the challenge – within the scope of disinfection measures – of selecting the appropriate spectra of activity. Even if the specific pathogen is known, selecting the corresponding disinfectant still requires a high degree of specialised knowledge.

If the pathogen is not known, it becomes considerably more difficult and a disinfection measure must be implemented based on a risk assessment. There are a wide range of different national and international recommendations in this regard. However, they can only offer the user approaches for an application recommendation. The Dr. Schumacher hygiene levels PREVENT :: PRESERVE :: PROTECT consider and combine all the aspects to provide the user with a disinfection measure appropriate for the respective situation through the classification and colour-coding of the products.



Surface

Concentrates for Surface Disinfection

Disinfection and hygiene in healthcare facilities must always be viewed as a whole. As such, in addition to hand disinfection, the disinfection of surfaces also represents an important aspect in the fight against pathogenic germs. The surface concentrates available from Dr. Schumacher GmbH offer you and your patients comprehensive protection both in routine care and in the case of outbreaks. The dosage of the products can be lowered or increased to correspond to the requirements and thus offers a cost-effective, attractive solution for daily use. The concentrates can be used for classic scrub-wipe disinfection or in combination with Dr. Schumacher non-woven wipe systems creating a user-friendly and ready-to-use disinfectant wipes – safe and simple disinfection for up to 42 days!



	Area of Application			Properties			Active Ingredients				Spectrum of Activity						Form			
	Wipe disinfection	Rapid disinfection	Cleaning	Alcoholic	Alcohol-free	Perfume-free	QAC	Aldehyde	Alkylamines	peracetic acid	Bactericidal	Yeasticidal (C. albicans)	Fungicidal	Tuberculocidal	Sporicidal	Active against enveloped viruses	Limited spectrum virucidal activity	Virucidal	Concentrate	Ready-to-use
CLEANISEPT®	✓	✓	✓		✓	✓	✓				✓	✓				✓			✓	
BIGUANID FLÄCHE N	✓	✓	✓		✓		✓				✓	✓		✓		✓			✓	
OPTISAL® N	✓		✓		✓				✓		✓	✓		✓		✓			✓	
ULTRASOL® AF	✓		✓		✓		✓		✓		✓	✓	✓						✓	
OPTISAL® PLUS	✓	✓	✓		✓	✓	✓		✓		✓	✓	✓	✓		✓	✓		✓	
ULTRASOL® ACTIVE	✓	✓	✓		✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
OPTISEPT®	✓		✓		✓		✓	✓			✓	✓		✓	✓	✓	✓	✓	✓	✓

For full information on each spectrum of activity, please consult the corresponding production information sheet (PIF).

CLEANISEPT®

Liquid concentrate for surface disinfection and cleaning

PREVENT



- Disinfection and good cleaning power
- Alcohol-free
- Perfume-free

CLEANISEPT is an aldehyde-free concentrate for disinfection and cleaning of medical inventory, medical devices and all kinds of surfaces. CLEANISEPT is based on modern quaternary ammonium compounds. It is perfume-free, contains neither aldehydes nor phenols and stands out with its good cleaning power. CLEANISEPT is ideally suited for surface disinfection of non-porous surfaces. It is especially recommended for all areas where, in addition to the compliance with high hygienic demands, an odour-free product is required.

Composition
100 g solution contain: 3.33 g Didecylidimethyl ammonium chloride, 6.66 g Alkyl (C12-16) Dimethylbenzyl ammonium chloride.

Single Unit	Unit	Content	REF
dosage bottle	10	1 l	00-204-010EXD
bottle	6	2 l	00-204-020EXD-01
canister	3	5 l	00-204-050EXD
canister	1	10 l	00-204-100EXD

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection	2.5 % - 15 min 1 % - 60 min		

BIGUANID FLÄCHE N

Liquid concentrate for surface disinfection and cleaning

PREVENT



- Strong cleaning power
- Pleasant odour
- Suitable for linoleum and PVC

BIGUANID FLÄCHE N is an aldehyde-free and phenol-free concentrate for disinfection and cleaning of non-invasive medical devices, medical inventory as well as for all kinds of surfaces based on quaternary ammonium compounds. BIGUANID FLÄCHE N offers a broad efficacy range including efficacy against norovirus and tuberculosis. The product contains corrosion inhibitors and has a good material compatibility. BIGUANID FLÄCHE N is recommended for areas with a high hygienic demand an where an unpleasant smell should be avoided.

Composition
100 g solution contain: 16 g Alkyl (C12-16) Dimethylbenzyl ammonium chloride.

Single Unit	Unit	Content	REF
dosage bottle	10	1 l	00-201-010
bottle	6	2 l	00-201-020-01
canister	3	5 l	00-201-050
canister	1	10 l	00-201-100

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection	0.75 % - 15 min 0.5 % - 60 min		
Application recommendation for tuberculocidal surface disinfection		2 % - 240 min	



OPTISAL® N

Liquid concentrate for surface disinfection and cleaning

PREVENT



- Suitable for daily use
- Excellent cleaning properties
- Fresh and pleasant scent

OPTISAL N is a 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, as it contains neither aldehydes nor phenols. 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 areas with a high hygienic demand where an unpleasant smell should be avoided. It is well suited for use on PVC/linoleum floors.

Composition

100 g solution contain: 7.2 g N-(3-Aminopropyl)-N-dodecylpropan-1,3-diamine.

Single Unit	Unit	Content	REF
sachet	200	40 ml	00-201-020-01
dosage bottle	10	1 l	00-214-010
canister	3	5 l	00-214-050

Spectrum of Efficacy and Contact Times

Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection	1 % - 15 min 0.5 % - 60 min		



ULTRASOL® AF

Liquid concentrate for surface disinfection and cleaning

PREVENT

- Strong cleaning power
- Perfume-free
- Bactericidal, yeasticidal, tuberculocidal

ULTRASOL AF is a user-friendly concentrate for the disinfection and cleaning of medical devices, medical inventory and all kinds of surfaces. The product has a strong cleaning power and it contains neither aldehydes nor phenols. The use of ULTRASOL AF is especially recommended for all kind of surfaces including plexiglass. Not suitable for non-ferrous metals and polycarbonates.

Composition

100 g solution contain: 3.33 g Alkyl (C12-16) Dimethylbenzyl ammonium chloride, 1.68 g Didecylmethyl ammonium chloride, 1.1 g N-(3-aminopropyl)-N-dodecylpropan-1,3-diamine.

Single Unit	Unit	Content	REF
bottle	12	1 l	00-204AF-010EXP
canister	3	5 l	00-204AF-050

Spectrum of Efficacy and Contact Times

Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection	2.5 % - 15 min 1 % - 60 min		
Application recommendation for tuberculocidal surface disinfection		5 % - 120 min	

OPTISAL® PLUS

Liquid concentrate for surface disinfection and cleaning

PRESERVE



- Optimal for daily routine
- Comprehensive range of efficacy
- Excellent material compatibility

OPTISAL PLUS is a liquid concentrate for disinfection and cleaning of near-patient surfaces as well as non-invasive medical devices. The product can be used universally for disinfection and cleaning of surfaces in medical areas. 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 all enveloped viruses (HBV, HIV, HCV), OPTISAL PLUS is highly effective against the following non-enveloped viruses: adenovirus, norovirus and rotavirus. OPTISAL PLUS is also very effective against mycobacteria and fungi. Its innovative composition ensures streak-free drying when used. OPTISAL PLUS is odour-free and perfume-free.

Composition
 100 g solution contain: 6.6 g Alkyl(C12-16) Dimethylbenzyl ammonium chloride, 2.3 g Didecyl dimethyl ammonium chloride, 7.2 g N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine.
 Contains: < 5 % non-ionic surfactants.

Single Unit	Unit	Content	REF
dosage bottle	10	1 l	00-245-010EXP
canister	3	5 l	00-245-050EXP

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
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	



DOSING OF SURFACE DISINFECTION CONCENTRATES IN ROUTINE APPLICATION

The day-to-day working of healthcare facilities is characterised by rapid workflows, with the effect that disinfection measures also usually need to be performed rapidly in routine situations. Surface disinfectants offer the user a rapid, on-the-spot solution as they are fast-acting. However, these predominantly alcoholic products can usually only be used for small and medium-sized surfaces. Disinfectant agents and disinfectant concentrates have proven their worth for large-scale disinfection measures. The challenge for the user here is to determine the appropriate dosage and contact time. In addition to being less cost-efficient, a higher dosage associated with a shorter contact time also often has a negative effect on the material compatibility and brings with it undesirable consequences such as stickiness and discolouration of materials.

ULTRASOL® ACTIVE

Powder concentrate for surface disinfection

PROTECT



- For disinfection with increased efficacy requirements
- Comprehensive and uncompromising efficacy
- Reliable and safe application

ULTRASOL ACTIVE is a highly effective powder concentrate with an excellent efficacy for disinfecting and cleaning of all types of surfaces. ULTRASOL ACTIVE is a low dusting powder and therefore especially reliable and safe in dosage. ULTRASOL ACTIVE is listed in the AB column of the RKI and is suited for surface disinfection in the routine when an increased efficacy is necessary as well as for surface disinfection in outbreak cases. ULTRASOL ACTIVE achieves the highest effectivity range due to its peracetic acid active agent generated in situ, in mild alkaline solution. This product realises excellent cleaning power while offering superb material compatibility. The efficacy of ULTRASOL ACTIVE is achieved even at high levels of organic contamination; dried-on blood can be easily and safely removed. This perfume-free and odourless product is especially suitable for disinfection in areas where maximum efficacy and outstanding cleaning performance are required.

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection	1 % - 5 min 0.5 % - 15 min	1 % - 15 min	2 % - 30 min 1 % - 60 min
Application recommendation for tuberculocidal surface disinfection		2 % - 15 min	
Application recommendation for sporicidal surface disinfection			

Active substance
Peracetic acid (in-situ) > 750 mg/l (1 % solution).

Single Unit	Unit	Content	REF
sachet	100	20 g	00-255-0002
bucket	6	1 kg	00-255-010EXP

OPTISEPT®

Liquid concentrate for surface disinfection and cleaning

PROTECT



- For disinfection in cases of epidemics
- Virucidal and sporicidal efficacy
- Excellent cleaning power

OPTISEPT is a highly efficient concentrate for disinfecting and cleaning of medical devices, medical inventory and all kinds of surfaces in all medical areas. The product is comprehensively effective and is certified for disinfection in cases of epidemics for bacteria and fungi (sector A) and viruses (sector B) according to the requirements of the RKI (Robert Koch-Institut, Federal German institute for disease control and prevention). The user-friendly formulation of OPTISEPT contains only limited amounts of volatile aldehydes. Unpleasant odours during application are thus effectively avoided. The use of OPTISEPT offers both flexibility and economical benefits: In cases of epidemics, the dosage is simply increased to the concentrations recommended by the RKI. No other additional disinfectant is needed.

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection			2 % - 60 min
Application recommendation for sporicidal surface disinfection			

Composition
100 g solution contain: 3.5 g Formaldehyde, 9.6 g Glyoxal, 2.5 g Glutaral, 8 g Didecylidimethyl ammonium chloride.

Single Unit	Unit	Content	REF
dosage bottle	10	1 l	00-205-010
canister	3	5 l	00-205-050



Surface

Rapid Disinfection Wipes

Rapid and simple cleaning and disinfection of surfaces is essential in many areas of healthcare facilities. Ready-to-use disinfectant wipes are the time-saving and most convenient solution. The ready-to-use disinfectant wipes from Dr. Schumacher GmbH can be used as soon as you open the pack and their use thus offers maximum time-savings. There is no need to prepare the ready-to-use disinfectant solution at all. The simple handling of the available products in the combination of packaging, wipe and impregnating solution are optimally coordinated to their respective area of application and enable you and your employees to perform sufficient disinfection as required in daily routine or in the case of heightened efficacy requirements. In addition, the possibility of using the wipes for up to 3 months after opening presents a very cost-effective aspect for the facility, which creates a winning combination together with the time, user-friendliness and safety advantages.



	Area of Use		Properties			Active Ingredients				Spectrum of Activity						Form		
	Rapid disinfection	Cleaning	Alcoholic	Alcohol-free	Perfume-free	QAC	Aldehyde	Alkylamines	peracetic acid	Bactericidal	Yeasticidal (C. albicans)	Fungicidal	Tuberculocidal	Sporicidal	Active against enveloped viruses	Limited spectrum virucidal activity	Virucidal	Ready-to-use
CLEANISEPT® WIPES	✓	✓		✓	✓	✓				✓	✓				✓			✓
CLEANISEPT® WIPES MAXI	✓	✓		✓	✓	✓				✓	✓				✓			✓
DESCOCEPT SPEZIAL WIPES	✓	✓		✓	✓	✓				✓	✓				✓			✓
DESCOCEPT AF WIPES	✓	✓	✓			✓				✓	✓	✓			✓			✓
DESCODERM PADS	✓	✓	✓		✓					✓	✓	✓			✓			✓
DESCOCEPT SENSITIVE WIPES	✓	✓	✓		✓					✓	✓	✓			✓	✓		✓
DESCOCEPT PUR WIPES RTU	✓	✓	✓		✓					✓	✓	✓			✓	✓		✓
CLEANISEPT® WIPES FORTE	✓	✓		✓	✓	✓				✓	✓			✓		✓	✓	✓
CLEANISEPT® WIPES FORTE MAXI	✓	✓		✓	✓	✓				✓	✓			✓		✓	✓	✓

For full information on each spectrum of activity, please consult the corresponding production information sheet (PIF).



CLEANISEPT® WIPES

Alcohol-free wipes for rapid disinfection

PREVENT

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

CLEANISEPT WIPES are alcohol-free, ready-to-use disinfection wipes for rapid disinfection and cleaning of medical devices and medical equipment. CLEANISEPT WIPES enable quick and easy application, particularly for disinfecting and cleaning ultrasound probes without mucous membrane contact. They are free of alcohol and do not contain aldehydes or phenols. The wipes can be removed individually from the practical and resealable dispenser.

Composition
100 g solution contain: 0.25 g Didecylidimethyl ammonium chloride, 0.5 g Alkylbenzylidimethyl ammonium chloride.

Single Unit	Unit	Content	Size	REF
dispenser box	12	100 wipes	14 x 20 cm	00-208-D100EXP
refill	12	100 wipes	14 x 20 cm	00-208-R100-01

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection	1 min		



CLEANISEPT® WIPES MAXI

Alcohol-free wipes for rapid disinfection

PREVENT

- Universal, comfortable and time-saving application
- Basic, rapid efficacy
- Especially suited for disinfection of medium-sized surfaces in routine areas

CLEANISEPT WIPES MAXI are ready-to-use wipes for rapid disinfection and cleaning of medical devices and medical inventory as well as all kinds of surfaces in all routine areas. CLEANISEPT WIPES MAXI offer a universal and time-saving application for the disinfection and cleaning of larger surfaces. The solution is alcohol-free and free of aldehydes and phenols. The wipes can be extracted individually from the resealable and user-friendly flowpack.

Composition
100 g solution contain: 0.25 g Didecylidimethyl ammonium chloride, 0.5 g Alkylbenzylidimethyl ammonium chloride.

Single Unit	Unit	Content	Size	REF
flowpack	12	100 wipes	20 x 22 cm	00-208-T100EXP

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection	1 min		



DESCOCEPT SPEZIAL WIPES

Alcohol-free wipes for rapid disinfection

PREVENT



- Universal, comfortable and time-saving application in a familiar dispenser bucket
- Basic, rapid efficacy
- Especially suited for disinfection of large surfaces in routine areas

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 kinds of surfaces in all routine areas. 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 wipe dispenser system with the resealable lid. DESOTEX preparation wipes are provided with every refill package to enable a manual and hygienic preparation before refilling the wipe dispenser.



Composition
100 g solution contain: 0.25 g Didecylidimethyl ammonium chloride, 0.5 g Alkylbenzylidimethyl ammonium chloride.

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

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection	1 min		



DESCOCEPT AF WIPES

Alcoholic wipes for rapid disinfection

PREVENT



- Universal, comfortable and time-saving application using a practical dispenser
- Basic, rapid efficacy
- Especially suited for disinfection of small surfaces in routine areas

DESCOCEPT AF WIPES are alcoholic, ready-to-use wipes for the disinfection and cleaning of alcohol resistant medical devices and medical inventory, as well as surfaces of all kinds. DESCOCEPT AF WIPES offer a time-saving disinfection and cleaning application of small surfaces. The wipes can be removed individually from the practical and resealable dispenser box.



Composition
100 g solution contain: 42 g Ethanol, 0.05 g Didecylidimethyl ammonium chloride.

Single Unit	Unit	Content	Size	REF
dispenser box	12	120 wipes	14 x 20 cm	00-312-D120-01
refill	12	120 wipes	14 x 20 cm	00-312-R120-01

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection	5 min		
tuberculocidal efficacy (EN 14348)		1 min	



DESCODERM PADS

Sterile, alcoholic disinfection wipes

PREVENT

- Universal, comfortable and quick application
- Comprehensive, rapid efficacy
- Particularly suitable for the disinfection of small medical devices (e.g. valve membrane connector)

DESCODERM PADS are ready-to-use disinfection wipes for disinfection and cleaning of medical devices. DESCODERM PADS provide a practical, time-saving and, thanks to the ensured sterility of the product, a safe application, especially for the disinfection and cleaning of valve membrane connectors. The wipes are individually packaged in a practical sachets.



Composition			
100 g solution contain: 63.1 g (70 % V/V) 2-Propanol.			
Single Unit	Unit	Content	REF
single sachets	12	100 sachets	00-401-T100-01

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection of medical devices	1 min		

SPECIFICATIONS OF EFFICACY FOR DIFFERENT END-USE CONDITIONS

The “low/high level of contamination” and “without/with mechanical action” points in the specifications of efficacy for a product describe different end-use conditions and application methods, which are taken into consideration in the scope of the efficacy testing. What might appear theoretical at first, contains vital information for the user.

	Without mechanical action	With mechanical action
Low level of contamination	<ul style="list-style-type: none"> • Precleaned/clean surface • Spray application without wiping 	<ul style="list-style-type: none"> • Precleaned/clean surface • Wipe application
High level of contamination	<ul style="list-style-type: none"> • Visible contamination (e.g. blood, secretions) • Spray application, wiping to remove contamination after the contact time has elapsed 	<ul style="list-style-type: none"> • Visible contamination (e.g. blood, secretions) • Wipe application

The corresponding application methods and end-use conditions must be considered at all times when determining the correct concentration and contact time within a disinfection measure. They also help you to select a safe and efficient solution when comparing products directly.



DESCOCEPT SENSITIVE WIPES

Alcohol-impregnated wipes for rapid disinfection

PRESERVE

- Universal, comfortable and time-saving application
- Broad, rapid efficacy
- Especially suited for disinfection of medium-sized surfaces in near patient areas

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



Composition 100 g solution contain: 45 g (53 % V/V) Ethanol.				
Single Unit	Unit	Content	Size	REF
flowpack	6	100 wipes	20 x 22 cm	00-323DS-T100EXP

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection	2 min	3 min	
Application recommendation for tuberculocidal surface disinfection		3 min	



DESCOCEPT PUR WIPES RTU

Alcoholic wipes for rapid disinfection

PRESERVE

- Versatile application, comfortable and time-saving
- Extensive, rapid efficacy
- Especially suited for disinfection of large surfaces in near patient areas

DESCOCEPT 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 near patient areas. DESCOCEPT PUR WIPES RTU offer a universal and time-saving application for the disinfection and cleaning of large surfaces. The wipes can be extracted individually from the known wipe dispenser system with re-sealable lid. DESOTEX preparation wipes are provided with every refill package to enable hygienic preparation before refilling the wipe dispenser system.



Composition 100 g solution contain: 45 g (53% V/V) Ethanol.				
Single Unit	Unit	Content	Size	REF
refill pack	2	120 wipes	17,5 x 36 cm	00-323-RS120

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection	5 min	5 min	
Application recommendation for tuberculocidal surface disinfection		5 min	



CLEANISEPT® WIPES FORTE

Alcohol-free wipes for rapid disinfection

PROTECT

- Universal, comfortable and quick application using a practical dispenser
- Extensive, rapid efficacy
- For virucidal disinfection of ultrasound probes for transvaginal and abdominal examinations

CLEANISPT 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 disinfection and cleaning of ultrasound probes for transvaginal examinations. The wipes are free of alcohol, aldehydes and phenols. The wipes can be extracted individually from a re-sealable dispenser box. CLEANISEPT WIPES FORTE are based on a user-friendly soaking solution. The product is odour free and has a very good material compatibility, yet still offers extensive and fast efficacy, within 2 minutes.

Composition
100 g solution contain: 0.2 g Didecylidimethyl ammonium chloride, 0.4 g Alkyl (C12-16) Dimethylbenzyl ammonium chloride.

Single Unit	Unit	Content	Size	REF
dispenser box	12	100 wipes	14 x 20 cm	00-235-D100

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection of medical devices	2 min	2 min	2 min
Application recommendation for sporidical surface disinfection			2 min



CLEANISEPT® WIPES FORTE MAXI

Alcohol-free wipes for rapid disinfection

PROTECT

- Universal, comfortable and time-saving application
- Extensive, rapid efficacy
- Especially suited for disinfection of medium-sized surfaces in areas with increased efficacy requirements

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.

Composition
100 g solution contain: 0.2 g Didecylidimethyl ammonium chloride, 0.4 g Alkyl (C12-16) dimethylbenzyl ammonium chloride.

Single Unit	Unit	Content	Size	REF
flowpack	6	100 wipes	20 x 22 cm	00-235-T100EXP

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection	2 min	2 min	2 min
Application recommendation for sporidical surface disinfection			2 min



MANUAL REPROCESSING OF ULTRASOUND PROBES

The method used for reprocessing an ultrasound probe depends on the risk of infection relating to the medical situation and how the probe is constructed. Taking into account the feasibility of use, manual reprocessing with ready-to-use rapid disinfection wipes has become an established practice in the market along with immersion disinfection.

Probes used for abdominal ultrasounds are subject to the least stringent disinfection requirements when being reprocessed. Ready-to-use rapid disinfection wipes (e.g. CLEANISEPT WIPES, CLEANISEPT WIPES MAXI) with essential disinfectant activity (bactericidal, yeasticidal, limited virucidal effect / PREVENT category) are an efficient and economical solution for probe reprocessing.

Preprocessing of ultrasound probes for transvaginal and transrectal examinations is subject to extended disinfection requirements due to the contact with mucous membranes and the associated higher risk of infection. Ready-to-use rapid disinfection wipes (e.g. CLEANISEPT WIPES FORTE, CLEANISEPT WIPES FORTE MAXI) with a broader spectrum of disinfectant activity (bactericidal, yeasticidal, virucidal / PROTECT category) are a fast and safe solution for patients.

Ultrasound probes with special requirements due to their construction or use (e.g. TEE ultrasound probes) require a method of disinfection that is specific to their needs. In this case Reprocessing using immersion procedure (e.g. with PERFEKTAN ACTIVE) is preferable to manual reprocessing.

In addition to the product solution, establishing a reprocessing process that can be validated is essential. In addition to the intuitive selection of the right disinfectant, Dr. Schumacher GmbH offers detailed and practical work instructions for reprocessing ultrasound probes. Those instructions are based on results of studies on the ability of manual reprocessing methods to be validated in collaboration with independent testing institutes, and the recommendations of accredited institutions.

Further information is available on our website www.schumacher-online.com.





Surface

Disinfection Wipe Systems

The simplification of cleaning and disinfection measures in healthcare facilities creates a noticeable increase in compliance. Non-woven wipe dispenser systems play an important part in this. The non-woven wipe dispenser systems from Dr. Schumacher GmbH offer you ultimate flexibility in all areas of your facility and are easy and safe to use. From reusable non-woven wipe dispensers in combination with high-quality or cost-effective wipe solutions up to innovative single-use non-woven wipe dispensers already filled with appropriate non-woven wipes for use without any compromises, we have the perfect system for every situation. All Dr. Schumacher non-woven wipe dispenser systems can be impregnated with the disinfectant of your choice. In the tested combination, they are ready-to-use after just 15 minutes and remain stable for up to 42 days.



	Type of System		Area of Application		Standing Time		Content	Format
	Disposable non-woven wipe dispenser system	Reusable non-woven wipe dispenser system	No risk area	Risk area	28 days	42 Days ¹	Wipes per roll	Wipe size in cm
ONE SYSTEM ⁺ PLUS	✓		✓	✓		✓	100	30 x 32
ONE SYSTEM BASIC	✓		✓	✓		✓	120	17.5 x 36
DESCO WIPES		✓	✓		✓		50	30 x 32
		✓	✓		✓		100	30 x 32
DESCO WIPES SMALL		✓	✓		✓		70	25 x 25
ECO WIPES		✓	✓		✓		50	30 x 32
		✓	✓		✓		100	30 x 32

¹In comparison with other conventional surface disinfectants with a standing time of 28 days and a impregnation time of 30 minutes, the tested VAH-listed surface disinfectants OPTISAL® PLUS, OPTISAL® N, BIGUANID FLÄCHE N, DESCOSEPT PUR, DESCOSEPT AF, DESCOSEPT FORTE and CLEANSISEPT® from Dr. Schumacher achieved a impregnation time of only 15 minutes and an increased standing time for the filled system of 42 days.



ONE SYSTEM⁺ PLUS

Disposable non-woven dispenser system for filling with disinfectant

- Innovative single use wipe system for especially easy use and disposal
- Pre-filled with DESOTEX® non-woven wipes ready for impregnation with disinfectants
- Ready for use in 15 minutes¹ – also in areas with special infection risk – up to 42 days standing time

When used with

OPTISAL PLUS | BIGUANID FLÄCHE N
CLEANISEPT | OPTISAL N
DESCOCEPT PUR | DESCOCEPT AF
DESCOCEPT FORTE | DESCOCEPT SENSITIVE



ONE SYSTEM PLUS is an innovative and proven disposable non-woven wipe dispenser system to be used as part of hygiene measures. Combined with suitable disinfectants, medical devices and medical equipment as well as surfaces of all types can be hygienically prepared.

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 measure immediately after filling with the disinfectant and allowing it to soak for 15 minutes. When used with Dr. Schumacher products, **ONE SYSTEM PLUS** can be used over a period of 42 days instead of the 28 days usual for other products on the market. Once the non-woven wipe roll is finished, the system is not reprocessed but can be directly disposed of after any residue is removed. **ONE SYSTEM PLUS** is designed for single use and prevents possible contamination resulting from reprocessing and reuse. The system is therefore suitable for use in areas with an especially high risk of infection as well as the usual areas of application in the healthcare sector.

The innovative disposable non-woven wipe dispenser system is simple, safe and efficient. The construction and handling is similar to conventional non-woven wipe dispensers but with a number of additional advantages: The dispenser opening is aligned with the non-woven wipe roll, giving the user quick access when removing the first wipe along with direct impregnation of the entire roll and the resulting shortened preparation time. The filling process was designed to be intuitive and practical for the user. There are considerably fewer steps in the process for the user. The transparent design of the system means that the filling level can be checked at a glance, making it easy to plan the supply. The dispenser with its lightweight foldable construction is made of pure polypropylene and can be flattened for disposal without any special requirements.

The DESOTEX premium non-woven fabric in the system is a tear-resistant, low-linting non-woven fabric and has been extensively reviewed by experts with the recommended disinfectants.

Disinfectant	Standing Time 42 Days ¹	4-Field Test ^a	Use also in Areas with special Risk of Infection ^b
OPTISAL PLUS	✓	✓	✓
BIGUANID FLÄCHE N	✓	✓	✓
CLEANISEPT	✓	✓	✓
OPTISAL N	✓	✓	✓
DESCOCEPT PUR	✓	✓	✓
DESCOCEPT AF	✓	✓	✓
DESCOCEPT FORTE	✓	✓	✓
DESCOCEPT SENSITIVE	✓	✓	✓

^a tested with all mandatory test organisms in line with EN 16615 (bactericidal/yeastocidal).

^b in accordance with information from the Association for Applied Hygiene (VAH) Disinfectant Commission in co-operation with the "4+4 Working Group": On the use of wipe dispenser systems in areas with special infection risk, Hyg Med 2014; 39 – 9.



¹ In comparison with other conventional surface disinfectants with a standing time of 28 days and a impregnation time of 30 minutes, the tested VAH-listed surface disinfectants OPTISAL PLUS, BIGUANID FLÄCHE N, CLEANISEPT, OPTISAL N, DESCOCEPT PUR, DESCOCEPT AF, DESCOCEPT FORTE and DESCOCEPT SENSITIVE from Dr. Schumacher achieved a presaturation time of only 15 minutes and an increased standing time of the filled system of 42 days.

Single Unit	Unit	Content	Size	REF
dispenser system	2	100 wipes	30 x 32 cm	00-915-OSEE100
wall holder	1	-	-	00-902-OSP

SIMPLY ECONOMICAL



- + Only 15 min pre-soaking time through Quick-Start technology¹
- + Less waste due to 50 % longer standing time¹
- + Disposable system: no time consuming reprocessing
- + Foldable lightweight design of single origin polypropylene for easy disposal

SIMPLY SAFE



- + Disposable concept to prevent reprocessing errors as well as contamination
- + Particularly easy and save application for the hectic daily routine in hospitals
- + Transparent dispenser design for visible fill level
- + Re-closable opening for practical filling and wipe removal

SIMPLY RELIABLE



- + Prefilled with compatibility tested DESOTEX wipes
- + Considerably fewer preparation steps compared with other reusable or disposable systems
- + Quick availability due to shorter pre-soaking time¹
- + 100 large wipes (32 cm x 30 cm) for large area coverage





SIMPLY ECONOMICAL

- Only 15 min pre-soaking time through Quick-Start technology¹
- Less waste due to 50 % longer standing time¹
- Disposable system: no time consuming reprocessing

SIMPLY SAFE

- Easy and safe wipe removal
- Disposable concept to prevent reprocessing errors as well as contamination
- Particularly easy and save application for the hectic daily routine in hospitals
- Transparent dispenser design for visible fill level
- easy and safe wipe removal

SIMPLY RELIABLE

- Precise instructions – illustrations show preparation of the system
- Important data at one glance – all relevant information is on the front of the product
- Stable construction: flexible dispenser with the stability of the common wipe dispenser



ONE SYSTEM BASIC

Single use wipe dispenser for filling with disinfectants

- Compact flexible packaging with increased stability for especially easy use and fill level control
- Filled with DESOTEX non-woven wipes for impregnation with disinfectants
- Ready for use after 15 minutes¹ – also in areas with an especially high risk of infection – with a standing time of 42 days

When used with

OPTISAL® PLUS | BIGUANID FLÄCHE N
CLEANISEPT® | OPTISAL® N
DESCOCEPT AF | DESCOCEPT FORTE
DESCOCEPT SENSITIVE



ONE SYSTEM BASIC is a single use wipe dispenser system for the disinfection of medical devices and medical inventory as well as all kinds of surfaces. ONE SYSTEM BASIC allows a practical and time-saving application. The particularly handy and compact single use wipe dispenser is simple, safe, efficient and quickly ready-to-use. The user can fill the system directly with the suited disinfectant and use it after a short, 15-minute impregnation time. The construction and handling is based on the common wipe dispenser, but in a flexible and space-saving design.

ONE SYSTEM BASIC is for single use only. It does not require any reprocessing after the end of the extended standing time of 42 days. After exhaustion / expiration and disposal of any remaining solution, the system can be disposed of.

Disinfectant	Standing Time 42 Days ¹	4-Field Test ^a	Use also in Areas with special Risk of Infection ^b
OPTISAL PLUS	✓	✓	✓
BIGUANID FLÄCHE N	✓	✓	✓
CLEANISEPT	✓	✓	✓
OPTISAL N	✓	✓	✓
DESCOCEPT AF	✓	✓	✓
DESCOCEPT FORTE	✓	✓	✓
DESCOCEPT SENSITIVE	✓	✓	✓

^a tested with all mandatory test organisms in line with EN 16615 (bactericidal/yeastocidal).

^b in accordance with information from the Association for Applied Hygiene (VAH) Disinfectant Commission in co-operation with the "4+4 Working Group": On the use of wipe dispenser systems in areas with special infection risk, Hyg Med 2014; 39 – 9.



Single Unit	Unit	Content	Size	REF
dispenser system	4	120 wipes	17,5 x 36 cm	00-915-OSEB120
wall holder	1	-	-	00-902-OSB

¹ In comparison with other conventional surface disinfectants with a standing time of 28 days and a impregnation time of 30 minutes, the tested VAH-listed surface disinfectants OPTISAL PLUS, BIGUANID FLÄCHE N, DESCOCEPT AF, DESCOCEPT FORTE and CLEANISEPT from Dr. Schumacher achieved a presaturation time of only 15 minutes and an increased standing time of the filled system of 42 days.

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



DESCO WIPES

Dispenser bucket

- Reusable non-woven wipe dispenser for filling with DESCO WIPES non-woven wipes and saturating with suitable surface disinfectants

DESCO WIPES is a reusable non-woven wipe dispenser system for disinfection and cleaning of medical devices and medical equipment of all types. DESCO WIPES is made up of a reusable non-woven wipe dispenser system and corresponding rolls of non-woven wipes for refilling. It can be used in combination with both ready-to-use rapid disinfectants and ready-to-use application solution of disinfectant concentrates, making it highly flexible. DESOTEX reprocessing wipes are provided with every refill package to enable hygienic preparation before refilling the non-woven wipe 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
pack	6	100 wipes	30 x 32 cm	00-915-RD10006
pack	3	50 wipes	30 x 32 cm	00-915-RD5003
DESCO WIPES small				
pack	3	70 wipes	25 x 25 cm	00-915-RD7003



ECO WIPES

Dispenser bucket

- Reusable non-woven wipe dispenser for filling with ECO WIPES non-woven wipes and saturating with suitable surface disinfectants

ECO WIPES is a reusable non-woven wipe dispenser system for disinfection and cleaning of medical devices and medical equipment of all types. ECO WIPES is made up of a reusable non-woven wipe dispenser system and corresponding rolls of non-woven wipes for refilling. It can be used in combination with both ready-to-use rapid disinfectants and ready-to-use application solution of disinfectant concentrates, making it very flexible. DESOTEX reprocessing wipes are provided with every refill package to enable hygienic preparation before refilling the non-woven wipe dispenser.

Single Unit	Unit	Content	Size	REF
dispenser bucket	1	empty	-	00-915-SE001
dispenser bucket	6	empty	-	00-915-SE002
dispenser bucket square	1	empty	-	00-915-SE003
wall holder	1	-	-	00-902-EIM
ECO WIPES				
pack	3	100 wipes	30 x 32 cm	00-915-REW10003
pack	6	100 wipes	30 x 32 cm	00-915-REW10006
pack	3	50 wipes	30 x 32 cm	00-915-REW5003



DESOTEX® REPROCESSING WIPES

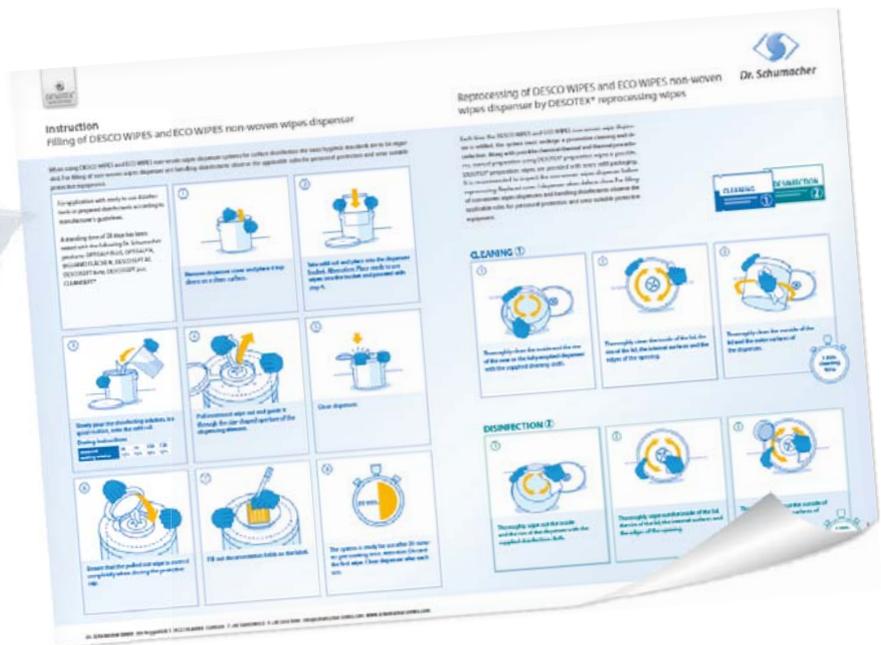
For reprocessing of refillable dispenser systems

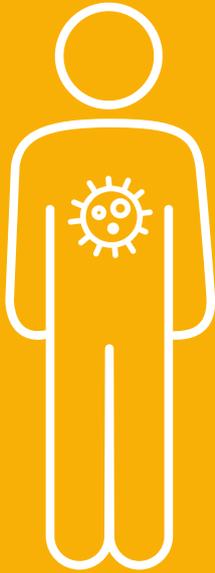
included in each DESCO WIPES + ECO WIPES refill



- Manual pre-cleaning and removal of contamination
- Removes disinfectant residues from dispenser surfaces
- Alcoholic rapid disinfection

Each refill pack for the refillable DESOTEX wipe dispenser systems comes with a set of two sachets to provide easy reprocessing of the dispenser buckets before use. Sachet No. 1 contains a ready-to-use wipe to clean the bucket first. With sachet No. 2 the bucket is disinfected before the next refilling process. This process is scientifically approved.





Hand and Skin

Decontamination

Infections in the medical sector caused by multiresistant bacteria (MRB) pose a serious problem in the healthcare system and a high risk for its patients, as such infections are very difficult to treat successfully. Hygienic whole-body washing of the patients with microbe-reducing products is necessary for containment of the pathogens. In addition to rapid efficacy, the Dr. Schumacher products for the hygienic cleaning also demonstrate outstanding skin compatibility and are thus also suitable for patients with sensitive skin.



	Application Areas			Spectrum of Activity					Product Properties					
	Antimicrobial cleansing	Hygienic hand disinfection	Antimicrobial hair washing	Bactericidal	Yeasticidal	Effective against Enveloped Viruses	MRSA	MRCN (e.g. Acinetobacter baumannii)	Microwaveable	Without alcohol	pH skin neutral	Lipid replenishing	Perfume-free	Colourant-free
DECONTAMAN PRE WASH	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓
NEW DECONTAMAN PRE WASH COLOURED	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
DECONTAMAN PRE WIPES	✓			✓	✓		✓	✓	✓	✓	✓			✓
DECONTAMAN PRE CAP	✓		✓	✓	✓		✓	✓	✓	✓	✓			✓

For full information on each spectrum of activity, please consult the corresponding production information sheet (PIF).

DECONTAMAN PRE WASH

Antimicrobial wash lotion for hands and skin



- Short contact time: 30 seconds
- Antimicrobial patient washing and decontamination
- bactericidal, yeasticidal, active against enveloped viruses

DECONTAMAN PRE WASH is an antimicrobial wash lotion for cleansing and disinfecting the skin and hands as well as for removing large amounts of fat and protein from the skin and hands, for example in the food industry. For antimicrobial body washing to remove MRSA colonisation as well as other multiresistant pathogens such as VRE, ESBL and other MDRGN, DECONTAMAN PRE WASH is also particularly suitable for use prior to hospitalisation. Thanks to its gentle surfactants and lipid replenishers, it is suitable for frequent use and for hygienic hand washing as defined by the VAH. Free of colourants.

Composition
100 g solution contain: 4 g Chlorhexidine digluconate; 1.5 g 2-Phenoxyethanol.

Single Unit	Unit	Content	REF
bottle	20	500 ml	00-531-005EXP
bottle	12	1 l	00-531-010EXP
canister	3	5 l	00-531-050EXP

Spectrum of Efficacy and Contact Times		15 s	30 s
application recommendation for hygienic handwash*	EN 1499/VAH		●
Additional EN test results			
bactericidal	EN 13727	dirty conditions	●
yeasticidal (C. albicans)	EN 13624	dirty conditions	●

NEW



DECONTAMAN PRE WASH COLOURED

Coloured antimicrobial wash lotion

- Short contact time: 30 seconds
- For preoperative, antimicrobial patient washing and decolonisation
- bactericidal, yeasticidal, active against enveloped viruses

DECONTAMAN PRE WASH COLOURED is an antimicrobial wash lotion for simultaneous cleaning and decolonisation of the skin and hands. DECONTAMAN PRE WASH COLOURED is suitable for preoperative body washing and hygienic hand washing in accordance with the VAH guideline and EN 1499 as well as for whole-body washing in case of MRSA colonisation or colonisation with other multidrug-resistant Gram-negative bacteria (MDRGN) such as acinetobacter baumannii or vancomycin-resistant enterococci (VRE). Due to its skin-friendly pH value and moisturising properties, DECONTAMAN PRE WASH COLOURED is well tolerated by the skin. The use of DECONTAMAN PRE WASH COLOURED can effectively interrupt the hand-to-hand chain of infection in medical and nursing care. DECONTAMAN PRE WASH COLOURED can be used for cleaning the skin prior to surgery. The product does not contain phenols, alcohols or fragrances.

Composition
100 g solution contain: 4 g Chlorhexidine digluconate; 1.5 g 2-Phenoxyethanol.

Single Unit	Unit	Content	REF
bottle	20	500 ml	00-531C-005E1
bottle	12	1 l	00-531C-010E1
canister	3	5 l	00-531C-050E1

Spectrum of Efficacy and Contact Times		15 s	30 s
application recommendation for hygienic handwash*	EN 1499/VAH		●
Additional EN test results			
bactericidal	EN 13727	dirty conditions	●
yeasticidal (C. albicans)	EN 13624	dirty conditions	●



DECONTAMAN PRE WIPES

Antimicrobial cleansing wipes

- Practical and quick use by highest quality non-woven, no rinsing necessary, microwaveable
- For presurgical, antimicrobial patient washing without additional water
- Broad efficacy against bacteria including multi-resistant pathogens

DECONTAMAN PRE WIPES are ready-to-use wipes for gentle, antimicrobial cleansing of the skin. The large washing wipes are made of robust, skin-friendly non-woven fabric and are impregnated with a mild disinfectant solution containing 2% chlorhexidine. It is not necessary to rinse the skin after cleansing with DECONTAMAN PRE WIPES. Thanks to the film of active ingredient that remains on the skin as a result, 24-hour residual action against bacteria is achieved. DECONTAMAN PRE WIPES are therefore highly suitable for time-saving yet thorough cleansing of skin colonised with MRE and can also be used as part of preoperative patient preparation.

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-T010

Spectrum of Efficacy and Contact Times		1 min	3 min
Bacteria and Yeasts			
bactericidal	EN 13727	•	
yeastocidal (C. albicans)	EN 13624		•



DECONTAMAN PRE CAP

Antimicrobial wash cap

- Practical and quick use by demand based cap application, no rinsing necessary, microwaveable
- Antimicrobial hair washing without additional water
- Broad efficacy against bacteria including multi-resistant pathogens

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, especially for immobile patients, without additional rinsing with water. The antimicrobial efficacy also allows the use together with a the whole body washing in case of colonisation with multidrug-resistant bacteria. The cap is made of a very durable, latex-free material and can be heated if necessary.

Composition
100 g solution contain: 2 g Chlorhexidine digluconate.

Single Unit	Unit	Content	REF
cap	30	1 piece	00-530-H001

Spectrum of Efficacy and Contact Times		1 min	3 min
Bacteria and Yeasts			
bactericidal	EN 13727	•	
yeastocidal (C. albicans)	EN 13624		•



Hand and Skin

Hand Disinfection

The majority of work in hospitals is performed by hand, meaning they also come into contact with countless bacteria, fungi and viruses with the potential to cause diseases. The risk of transmitting infections via personnel is therefore very high but can be prevented with effective hand disinfection. Due to the frequency of skin disinfection in medical facilities, good compatibility of the products and regular care of the hands are important to maintain the health of the skin. Dr. Schumacher hand disinfectants have a fast and reliable disinfection action while also offering very good skin compatibility.



	Application Areas			Active Ingredients		Spectrum of Activity			Product Properties			
	Hyg. hand disinfection in accordance with EN 1500	Surg. hand disinfection in accordance with EN 12791	Skin disinfection	Ethanol	2-Propanol	Active against enveloped Viruses	Effective against Enveloped Viruses and additional non-enveloped Viruses	Virucidal	Lipid replenishing	Perfume-free	Colourant-free	No additives
ASEPTOMAN®	✓	✓			✓	✓			✓		✓	
ASEPTOMAN® PERFUME-FREE	✓	✓			✓	✓			✓	✓	✓	
DESCODERM	✓	✓	✓		✓	✓				✓	✓	✓
ASEPTOMAN® MED	✓	✓		✓		✓	✓		✓	✓	✓	
ASEPTOMAN® FORTE	✓	✓		✓		✓	✓	✓	✓	✓	✓	
ASEPTOMAN® GEL	✓	✓		✓		✓	✓	✓	✓	✓	✓	

For full information on each spectrum of activity, please consult the corresponding production information sheet (PIF).



ASEPTOMAN®

Alcoholic hand disinfectant

- Bactericidal, tuberculocidal, yeasticidal
- Effective against all enveloped viruses
- Contains emollients for skin care

ASEPTOMAN is an alcoholic hand disinfectant to be rubbed into the skin. ASEPTOMAN is exceptionally kind to the skin. Furthermore, ASEPTOMAN contains high quality emollients for skin care which protects the skin against dehydration.

PREVENT

Composition
100 g solution contain: 63.14 g (70 % V/V) 2-Propanol.

Single Unit	Unit	Content	REF
pocket-sized bottle	20	100 ml	00-403-001EXP-10
bottle	20	500 ml	00-403-005EXP-10
bottle	12	1 l	00-403-010EXP-10
canister	3	5 l	00-403-050EXP-10

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for hygienic hand disinfection	30 s		
Application recommendation for surgical hand disinfection	1.5 min		



ASEPTOMAN® PERFUME-FREE

Alcoholic hand disinfectant

- Bactericidal, tuberculocidal, yeasticidal
- Active against all enveloped viruses
- Especially skin-friendly, with emollients for skin care

ASEPTOMAN PERFUME-FREE is an alcoholic hand disinfectant to be rubbed into the skin. ASEPTOMAN PERFUME-FREE is exceptionally kind to the skin. It is free of perfume and persistent long-term acting ingredients that might have an irritating or sensitising effect on the skin. Furthermore, ASEPTOMAN PERFUME-FREE contains high quality emollients for skin care which protect the skin against dehydration.

PREVENT

Composition
100 g solution contain: 63.14 g (70 % V/V) 2-Propanol.

Single Unit	Unit	Content	REF
pocket-sized bottle	20	100 ml	00-403OP-001
bottle	20	500 ml	00-403OP-005
bottle	12	1 l	00-403OP-010

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for hygienic hand disinfection	30 s		
Application recommendation for surgical hand disinfection	1.5 min		



DESCODERM

Alcoholic hand disinfectant

- Bactericidal, yeasticidal, tuberculocidal
- Effective against all enveloped viruses
- Free of perfume and potentially allergenic additives

Alcoholic, perfume-free disinfectant to be rubbed into the skin and hands. DESCODERM contains no persistent long-term acting ingredients or other additives which might have an irritating or sensitising effect on the skin. Dermatologically recommended for the disinfection of hands and skin of people prone to allergy and persons with sensitive skin.

PREVENT

Composition

100 g solution contain: 63.1 g (70 % V/V) 2-Propanol.

Single Unit	Unit	Content	REF
pocket-sized bottle	20	100 ml	00-401-001EXP
pump spray bottle	20	250 ml	00-401-0025EX
bottle	20	500 ml	00-401-005EXP
bottle	12	1 l	00-401-010EXP
canister	3	5 l	00-401-050EXP

Spectrum of Efficacy and Contact Times

Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for hygienic hand disinfection	30 s		
Application recommendation for surgical hand disinfection	1.5 min		



ASEPTOMAN® MED

Alcoholic hand disinfectant

- Limited spectrum virucidal activity
- Effective against norovirus within 30 s
- Fast acting and highly effective, outstanding skin compatibility

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

PRESERVE

Composition

100 g solution contain: 65 g (72 % V/V) Ethanol.

Single Unit	Unit	Content	REF
pocket-sized bottle	20	100 ml	00-457OP-001EXP
bottle	20	500 ml	00-457OP-005EXP
bottle	12	1 l	00-457OP-010EXP

Spectrum of Efficacy and Contact Times

Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for hygienic hand disinfection	30 s	30 s	
Application recommendation for surgical hand disinfection	2 min	2 min	

ASEPTOMAN® FORTE

Alcoholic hand disinfectant

PROTECT



- Virucidal in 30 seconds
- Perfume-free, especially skin-caring with glycerin and moisturiser
- Surgical hand disinfection in 1.5 minutes

ASEPTOMAN FORTE is a virucidal, ethanolic hand disinfectant. ASEPTOMAN FORTE achieves a comprehensive spectrum of activity, while showing a very good skin compatibility. Limited spectrum of virucidal activity and virucidal (according to EN 14476) within 30 s. ASEPTOMAN FORTE has been proven to increase skin hydration as well as softens and smoothes the skin thanks to a proven skin care system and is particularly skin-friendly.

Composition
100 g solution contain: 85 g Ethanol.

Single Unit	Unit	Content	REF
pocket-sized bottle	20	100 ml	00-485OP-001EXP
bottle	20	500 ml	00-485OP-005EXP
bottle	12	1 l	00-485OP-010EXP

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
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

ASEPTOMAN® GEL

Alcoholic hand disinfectant

PROTECT



- Bactericidal, tuberculocidal, yeasticidal, virucidal
- Effective against noroviruses
- Perfume-free, contains emollients for skin care

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 of cumulative long-term acting ingredients that might have an irritating or sensitising effect on the skin. Compatible with all washing lotions. Free of aldehydes, phenols and quaternary ammonium compounds.

Composition
100 g solution contain: 80.8 g (85 % V/V) Ethanol.

Single Unit	Unit	Content	REF
pocket-sized bottle	20	100 ml	00-409-001EXP
bottle	20	500 ml	00-409-005EXP
bottle	12	1 l	00-409-010EXP

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
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



REMNANT EFFECTS IN HYGIENIC HAND DISINFECTION

Numerous hand disinfection formulations on the market claim to have a remnant effect, but is this what we need? Many customers think, yes, these are exactly the products we want, it makes hand hygiene simpler and safer. But is this true?

A bulletin by the Robert Koch Institute in 2016 states: "This includes the addition of antiseptic active substances to alcohol-based formulations with the aim of inducing a sustained effect (residual action), e.g. chlorhexidine, octenidine, polyhexanide, quaternary ammonium compounds, 2-phenylphenol or triclosan. However, an improvement in the effectiveness has not been demonstrated to date for either hygienic or surgical hand disinfection. On the other hand, the frequent use of such combinations may, depending on the active substance, increase the risk of intolerances or even induce the development of resistance:"

Prof. Dr. med Günter Kampf of the Institute for Hygiene and Environmental Medicine also discusses this topic in his Book "Kompendium Händehygiene", published in 2017. To quote him: "A remnant effect of hand hygiene products which contain non-volatile substances cannot be scientifically proven as of yet."

A thought he raises, is that staff thinking they have used a remnant product may not be as particular about compliance in hand hygiene.

When it comes to surgical hand disinfection, a sustained effect is required. EN 12791 tests gloved skin immediately and after 3 hours, therefore a prolonged effect is required.

In conclusion, alcoholic hand disinfectants do not need any additional substances to reach a remnant effect, since this is yet to be demonstrated.

References:

Robert Koch Institut Epidemiologisches Bulletin 2. Mai 2016 / Nr. 17, Wirkstoffe der alkoholischen Händedesinfektionsmittel – ein Beitrag zum Internationalen Tag der Hygiene.

Kompendium Händehygiene, Prof. Dr. med. Günter Kampf, 1. Auflage 2017



Skin

Skin Disinfection

The aim of skin disinfection is the greatest possible reduction of the skin flora prior to invasive operations in which the skin barrier is compromised. This measure aims to prevent the introduction of the germs into deeper tissue layers with the risk of subsequent infection. Our ASEPTODERM products require short, practical contact times on skin with few or many sebaceous glands and are tested in accordance with the latest VAH methods. Aseptoderm is available colourless for skin disinfection prior to injections and punctures as well as coloured for preoperative skin asepsis. Our ASEPTODERM products are based on the alcoholic active ingredient 2-propanol, which displays excellent effectiveness against bacteria. As a result, they are excellently suited to skin disinfection, as wound and postoperative infections are usually caused by bacteria.



	Application Areas				2-Propanol	Spectrum of Activity		Product Properties		
	Skin disinfection	Application recommendation for skin antiseptics before injections and puncturing of skin with few sebaceous glands	Application recommendation for skin antiseptics before puncture of joints, body cavities and hollow organs as well as surgical procedures	Recommended for skin antiseptics on skin rich in sebaceous glands		Effective against Enveloped Viruses	Bactericidal, yeasticidal, tuberculocidal	Lipid replenishing	Perfume-free	Colourant-free
ASEPTODERM® 2 % CHG	✓	✓	✓	✓	✓	✓	✓		✓	✓
ASEPTODERM® 2 % CHG COLOURED	✓	✓	✓	✓	✓	✓	✓		✓	
ASEPTODERM®	✓	✓	✓	✓	✓	✓	✓			✓
ASEPTODERM® COLOURED	✓	✓	✓	✓	✓	✓	✓			

For full information on each spectrum of activity, please consult the corresponding production information sheet (PIF).

ASEPTODERM® 2 % CHG

Alcoholic skin disinfectant



- Ready-to-use colourless skin disinfectant
- Based on 70 % alcohol and 2 % chlorhexidine
- Perfume-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.

Composition
100 g solution contain: 63.1 g (70 % V/V) 2-Propanol, 2 % Chlorhexidine Digluconate (w/v).

Single Unit	Unit	Content	REF
spray bottle	30	100 ml	00-520-001EXP
spray bottle	20	250 ml	00-520-0025EXP
bottle	12	1 l	00-520-010EXP

Spectrum of Efficacy and Contact Times		15 s	1 min	3 min
Skin Disinfection				
skin disinfection with 3-hour long-term effect	EN 12791			●
active against all enveloped viruses	EN 14476	●		
Additional EN Test Results				
bactericidal	EN 13727		●	
yeastocidal (Candida albicans)	EN 13624		●	

ASEPTODERM® 2 % CHG COLOURED

Coloured alcoholic skin disinfectant



- Ready-to-use colourless skin disinfectant
- Perfume free, red coloured
- Based on 70 % alcohol and 2 % chlorhexidine

ASEPTODERM 2% CHG COLOURED is a ready-to-use, alcohol-based skin disinfectant. The red colouring 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.

Composition
100 g solution contain: 63.1 g (70 % V/V) 2-Propanol, 2 % Chlorhexidine Digluconate (w/v).

Single Unit	Unit	Content	REF
spray bottle	30	100 ml	00-520C-001EXP
spray bottle	20	250 ml	00-520C-0025EXP
bottle	12	1 l	00-520C-010EXP

Spectrum of Efficacy and Contact Times		15 s	1 min	3 min
Skin Disinfection				
skin disinfection with 3-hour long-term effect	EN 12791			●
active against all enveloped viruses	EN 14476	●		
Additional EN Test Results				
bactericidal	EN 13727		●	
yeastocidal (Candida albicans)	EN 13624		●	

ASEPTODERM®

Alcoholic skin disinfectant



- Bactericidal, yeasticidal, tuberculocidal
- Active against all enveloped viruses incl. HBV/HIV/HCV
- Especially gentle to the skin

Ready-to-use, alcoholic skin disinfectant. For skin disinfection prior to injections, incisions, punctures, blood withdrawals, catheter insertions and minor surgical interventions in inpatient and outpatient settings as well as private practice. In addition, the preparation can also be used for preoperative skin disinfection prior to injections, incisions, punctures, blood withdrawals, catheter insertions and minor surgical interventions. Good skin compatibility as free of persistent longterm active ingredients. Filtered free from spores.

Composition

100 g solution contain: 63.14 g (70 % V/V) 2-Propanol.

Single Unit	Unit	Content	REF
spray bottle	20	250 ml	00-501-0025EXP-20
bottle	20	500 ml	00-501-005EXP-10
bottle	10	1 l	00-501-010EXP
canister	3	5 l	00-501-050EX-10

Spectrum of Efficacy and Contact Times

		15 s	30 s	1.5 min
Skin Disinfection				
skin disinfection	EN 12791			●
active against all enveloped viruses	RKI / DVV	●		
Additional EN Test Results				
tuberculocidal (M. terrae)	EN 14348		●	
bactericidal	EN 13727	●		
yeasticidal (Candida albicans)	EN 13624	●		

* including phase 2 step 1 and phase 2 step 2 tests (quantitative suspension tests and quantitative carrier tests)

ASEPTODERM® COLOURED

Coloured alcoholic skin disinfectant



- Bactericidal, tuberculocidal, yeasticidal
- Active against all enveloped viruses incl. HBV/HIV/HCV
- Exceptionally kind to the skin

Ready-to-use, alcoholic skin disinfectant. **ASEPTODERM COLOURED** is coloured to mark the area which has been disinfected and its primary use is in preoperative skin disinfection. In addition, **ASEPTODERM COLOURED** can be used for skin disinfection prior to injections, incisions, punctures, blood withdrawals, catheter insertions and minor surgical interventions. Free of persistent long-term active ingredients. Aldehyde-, phenol- and QAC-free.

Composition

100 g solution contain: 63.14 g (70 % V/V) 2-Propanol.

Single Unit	Unit	Content	REF
spray bottle	20	250 ml	00-502-0025EXP-20
bottle	10	1 l	00-502-010EX-10

Spectrum of Efficacy and Contact Times

		15 s	30 s	1.5 min
Skin Disinfection				
skin disinfection	EN 12791			●
active against all enveloped viruses	RKI / DVV	●		
Additional EN Test Results				
tuberculocidal (M. terrae)	EN 14348		●	
bactericidal	EN 13727	●		
yeasticidal (Candida albicans)	EN 13624	●		

* 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.



Hand and Skin

Cleansing and Skin Care Wipes

Cleansing hands and skin removes dirt, sweat and other residues. It is important to use wash lotions which are skin-friendly and intended for the user's skin type as the skin's own fats and moisturising factors are removed during the cleansing. Cleansing wipes offer an efficient alternative to skin and hand washing with wash lotion and water.

The ready-to-use wipes clean and care for the skin at the same time, simplifying the workflows in patient care. Cleansing of dirty skin with products from Dr. Schumacher lays the foundations for disinfection, allowing disinfectant to act optimally against bacteria, fungi and viruses.

	Contents						Product Properties						Application Area			
	Humectants	Lipid replenishers and/or botanical oils	Skin-regenerating care agents	Alkali and soap-free	Colourant-free	Perfume-free	Wipe	Glove	Wipe/glove size in cm	Hypoallergenic formulation	pH skin neutral	Number of wipes/gloves	Normal skin	Dry skin	Very dry skin	Sensitive skin
PROLIND WASCHLOTION SENSITIVE	✓	✓		✓	✓	✓				✓	✓		✓	✓	✓	✓
DESCOSAN		✓	✓	✓	✓					✓			✓	✓		✓
DESCOSAN KAMILLENDUFT	✓	✓	✓	✓	✓					✓			✓	✓		
DESCOSOFT	✓	✓	✓	✓						✓			✓			
DESCOSOFT SENSITIVE	✓	✓	✓	✓	✓	✓				✓			✓			✓
SALINA	✓	✓	✓	✓	✓					✓			✓			
DESOBATH WIPES	✓		✓	✓	✓		✓	22 x 33		✓	10	✓	✓	✓		
OPTIWASH®	✓	✓	✓	✓	✓	✓		✓	14 x 24	✓	✓	10	✓	✓	✓	✓
BABY WIPES SENSITIVE	✓		✓	✓	✓	✓	✓		18 x 20	✓	✓	80	✓	✓	✓	✓
DESODERM CARE WIPES	✓	✓	✓	✓	✓	✓	✓		18 x 20	✓	✓	80	✓	✓	✓	✓





WASCHLOTION SENSITIVE

Hypoallergenic wash lotion for sensitive and strained skin

- Hypoallergenic, skin-caring wash lotion
- With nourishing glycerin and almond oil
- Free of colourants and perfume

PROLIND WASCHLOTION SENSITIVE is a skin-caring wash lotion without addition of colourants and perfume, that is especially suitable for gentle cleansing of sensitive and allergy-prone skin and hands. The mild wash lotion is based on high quality ingredients, such as glycerin and almond oil as well as especially skin-friendly cleansing surfactants. The high-quality ingredients in PROLIND WASCHLOTION SENSITIVE counteract the negative effects of hand washing by reducing transepidermal water loss during hand washing and replacing skin lipids which were leached out.

Single Unit	Unit	Content	REF
bottle	20	500 ml	00-614-005
bottle	12	1 l	00-614-010



DESCOSAN

Skin-friendly wash lotion

- With skin-friendly allantoin
- With lanolin and refatting agents
- With mild surfactants

DESCOSAN is a pH skin neutral wash lotion for stressed skin and hands. The pleasantly smooth and creamy foam of the DESCOSAN wash lotion cleans gently and thoroughly. The lanolin contained in DESCOSAN, another lipid replenisher and the skin-friendly cleaning surfactants reduce drying out of the skin during washing. The wash lotion is free of colourants and has a pleasant, mild scent.

Single Unit	Unit	Content	REF
bottle	20	500 ml	00-601N-005
bottle	12	1 l	00-601N-010
canister	3	5 l	00-601N-050
canister	1	10 l	00-601N-100



DESCOSAN KAMILLENDUFT

Skin-friendly wash lotion

- With allantoin and natural chamomile extract
- With lanolin, refatting agents and moisturiser
- With mild surfactants

DESCOSAN KAMILLENDUFT is a pH skin neutral wash lotion with natural chamomile extract for stressed skin and hands. The pleasantly smooth and creamy foam of the DESCOSAN KAMILLENDUFT wash lotion cleans gently and thoroughly. The lanolin contained in DESCOSAN KAMILLENDUFT, another lipid replenisher, moisturising ingredients and the skin-friendly cleaning surfactants reduce drying out of the skin during washing. The wash lotion is free of colourants and has the pleasant scent of chamomile.

Single Unit	Unit	Content	REF
bottle	20	500 ml	00-616-005
bottle	12	1 l	00-616-010
canister	3	5 l	00-616-050



DESCOSOFT

Wash lotion

- Fresh scent
- Mild cleansing
- With allantoin, refatting agents and glycerin

DESCOSOFT is a pH skin neutral wash lotion for mild cleansing of the skin and is characterised mainly by its pleasant fresh scent. DESCOSOFT contains allantoin, refatting agents and glycerine, which counteracts drying of the skin by hand washing. For easy identification of the filling level, the product is coloured blue.

Single Unit	Unit	Content	REF
bottle	20	500 ml	00-607-005
bottle	12	1 l	00-607-010
canister	3	5 l	00-607-050
canister	1	10 l	00-607-100



DESCOSOFT SENSITIVE

Wash lotion for sensitive skin

- Free from perfume and colourants
- With allantoin, refatting agents and glycerine
- Mild cleansing and pH skin neutral

DESCOSOFT SENSITIVE is also free of fragrances and colourants and is therefore particularly well-suited for use on healthy skin to prevent the development of allergies to such substances. The formulation includes moisturising ingredients and glycerine to prevent the skin drying out during washing. The creamy-soft DESCOSOFT SENSITIVE wash lotion cleans thoroughly and is economical to use. For the washing of patients and preparation of baths. DESCOSOFT SENSITIVE is also free of perfumes and colourants and is therefore particularly well suited for use on intact skin, even for people with allergies.

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



SALINA

Wash lotion

- With glycerine and refatting agents
- With fresh lemon scent
- pH skin neutral

SALINA washing lotion is a mild cleansing, pH skin neutral wash lotion for frequent, intensive washing of skin and hands. Skin-caring and refatting ingredients protect the physiological integrity of the skin and protect the skin from drying out. The soft and creamy SALINA wash lotion cleanses mildly and is economical to use.

Single Unit	Unit	Content	REF
bottle	20	500 ml	00-631-005
bottle	12	1 l	00-631-010EXP
canister	3	5 l	00-631-050EXP
canister	1	10 l	00-631-100





DESOBATH WIPES

Skin cleansing wipes

- Practical and quick use by highest quality non-woven, no rinsing necessary, microwaveable
- Patient washing without additional water
- Dermatologically tested

DESOBATH WIPES are ready-to-use wipes for cleaning the skin. DESOBATH WIPES enable quick and thorough cleaning, particularly of immobile patients, with no need for subsequent rinsing with water. The wipes are used as part of whole-body washing. The use of a very mild plant-based cleaning surfactant and nourishing active ingredients, such as allantoin and panthenol, mean that DESOBATH WIPES exhibit very gentle cleansing and moisturising properties along with a pleasant fragrance. The large washing wipes are made of a robust, skin-friendly non-woven fabric and can be preheated if needed.

Single Unit	Unit	Content	Size	REF
flowpack	16	10 wipes	22 x 33 cm	00-604DW1-T010



OPTIWASH®

Washing gloves for cleansing the skin

- Practical and quick use by ergonomic glove application, no rinsing necessary, microwaveable
- Patient washing without additional water
- Dermatologically tested

OPTIWASH are ready-to-use washing gloves for cleansing the skin. OPTIWASH enables time-saving, thorough cleansing, especially for immobile patients, with no need for subsequent rinsing with water. The gloves are used as a part of whole-body washing, are made of soft, skin-friendly non-woven fabric and can be preheated if needed.



Single Unit	Unit	Content	Size	REF
flowpack	24	10 gloves	15 x 23 cm	00-639NK-T010



BABY WIPES SENSITIVE

Cleansing wipes for mild baby care



- With aloe vera and allantoin
- Free of perfume and alcohol
- Hypoallergenic formulation, for sensitive skin

CARE ZONE BABY WIPES SENSITIVE are suited for gentle cleansing and care of the particularly sensitive baby skin. The soaking solution of CARE ZONE BABY WIPES SENSITIVE contains a mild cleansing surfactant on a herbal basis and skin-soothing ingredients such as aloe vera and allantoin. The formulation is ÖKO-TEST compliant, free of perfume and therefore approved by the German Allergy and Asthma Association e. V. (DAAB). The wipes are very soft and allows a gentle cleansing. The wipes can be removed individually from the practical packaging with its resealable cover.

Single Unit	Unit	Content	Size	REF
flowpack	12	80 wipes	18 x 20 cm	01-639NK-T080



DESODERM CARE WIPES

Caring cleansing wipes for sensitive skin



- Caring and cleansing
- Extra soft fleece
- Alcohol- and perfume-free

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 care agents such as aloe vera, allantoin and glycerine. These ingredients mean that DESODERM CARE WIPES not only have a cleansing effect, but also a caring and soothing effect on the skin. The wipes are very soft and pleasant on the skin, enabling pleasant cleansing.

Single Unit	Unit	Content	Size	REF
flowpack	12	80 wipes	18 x 20 cm	DT-639NK-T080



Hand and Skin

Care and Protection Body Care

Only healthy skin can protect effectively against the penetration by pathogenic germs. Frequent disinfection and washing, contact with different medical substances and daily working with protective gloves stress the skin in a number of ways. For this reason, it is important to care for the skin individually to maintain its natural protection against environmental factors. Dr. Schumacher products offer the right care for all types of skin. If the skin is protected, it remains intact despite the daily stresses.

	Contents						Product Properties							Application Area				
	Humectants	Lipid replenishers and/or botanical oils	Skin-regenerating care agents	Silicone-free	Colourant-free	Perfume-free	Type of emulsion	pH skin neutral	Cream	Lotion	Foam	Suitable for dispensers	Cooling effect	Hypoallergenic formulation	Normal skin	Dry skin	Very dry skin	Sensitive skin
PROLIND HAUTSCHUTZ- & PFLEGECREME SENSITIVE	✓	✓			✓	✓	O/W	✓	✓		✓		✓	✓	✓	✓	✓	✓
PROLIND INTENSIV-PFLEGECREME SENSITIVE	✓	✓	✓	✓	✓	✓	W/O	✓	✓				✓		✓	✓	✓	✓
PROLIND PFLEGECREME SENSITIVE	✓	✓		✓	✓	✓	O/W	✓	✓		✓		✓	✓	✓			✓
DESCOMED BARRIERECREME	✓	✓		✓	✓	✓	W/O	✓						✓	✓	✓	✓	✓
BIALIND®	✓	✓	✓	✓	✓		O/W	✓	✓		✓			✓				
DESCOMED	✓		✓	✓	✓			✓		✓				✓	✓	✓		
DESCOMED ÖLBAD		✓	✓	✓	✓									✓	✓	✓		
DESCO VITAL		✓		✓	✓			✓	✓		✓	✓		✓	✓	✓		

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



Tested skin protection



HAUTSCHUTZ- & PFLEGECREME sensitive

Perfume-free oil-in-water skin care & barrier lotion

- Confirmed barrier effect according to modern test methods
- Protection against water soluble substances
- With glycerine and lipid-replenishing agents as well as a natural deodorising complex with Hamamelis

The product PROLIND HAUTSCHUTZ- & PFLEGECREME sensitive was specifically developed to protect sensitive hands in everyday working life. The oil-in-water skin barrier cream spreads perfectly and absorbs quickly into the skin while leaving a smooth and well-groomed feeling. It is also suitable for use in dispensers. PROLIND HAUTSCHUTZ- & PFLEGECREME sensitive is suitable for daily use before skin-damaging activities to protect the hands during wet work. Due to a natural deodorising complex with witch hazel and without aluminium salts, PROLIND HAUTSCHUTZ- & PFLEGECREME sensitive is particularly recommended for protecting hands during extended glove wearing times. The protective effect of PROLIND HAUTSCHUTZ- & PFLEGECREME sensitive against water-soluble substances (detergents and alkaline solutions) was demonstrated on test persons using the latest test methods. For hygienic and safe use of the product in dispensers, PROLIND HAUTSCHUTZ- & PFLEGECREME sensitive contains a small quantity of a well-tolerated preservatives. In addition to its protective effect PROLIND HAUTSCHUTZ- & PFLEGECREME sensitive also has skin-caring properties and contains lipid-replenishing agents as well as glycerin for this purpose.

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



INTENSIV-PFLEGECREME sensitive

Hypoallergenic skin care cream for sensitive and very dry hands

- With avocado oil, panthenol, allantoin and vitamin E
- Absorbs quickly
- Supports the regeneration of stressed skin

PROLIND INTENSIV-PFLEGECREME sensitive is a water-in-oil emulsion for intensive and sustainable care of strained hands. Due to its high-quality and rich ingredients, the regeneration of the skin and its barrier function are supported. For this purpose, PROLIND INTENSIV-PFLEGECREME sensitive contains not only avocado oil, panthenol, allantoin and vitamin E but also moisturising glycerin. Despite the rich formulation PROLIND INTENSIV-PFLEGECREME sensitive absorbs quickly into skin. PROLIND INTENSIV-PFLEGECREME sensitive is particularly suitable for use by people suffering from atopy and allergy.

Single Unit	Unit	Content	REF
tube	12	100 ml	00-620WO-001


 prolind

PFLEGECREME sensitive

Mild skin care lotion

- Contains shea butter, almond oil and Vitamin E
- Absorbs quickly
- Without perfumes

PROLIND PFLEGECREME sensitive is an oil-in-water emulsion for the care of sensitive and allergy-prone skin, which maintains the skin's health thanks to particularly high-quality ingredients. Humectants bind moisture in the skin and keep it smooth. PROLIND PFLEGECREME sensitive contains natural lipid replenishing ingredients such as almond oil and shea butter. PROLIND PFLEGECREME sensitive is free of perfume and is therefore particularly suitable for use by people that suffer from atopy and allergy.



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

THE SIGNIFICANCE OF FATTY ACIDS AND LIPIDS FOR SKIN CARE

When washing hands and skin, lipids from the top layer of the skin, the so-called horny layer, are washed out and have to be replaced either by the body or artificially with the help of a nourishing cream. It is important to supply the skin with a larger spectrum of fats, so that it can replace all the necessary skin oils. The supply with individual fatty acids, such as palmitic or caprylic acid, but it cannot always make up for the deficit in lipids. It is by far more effective to care for the skin with natural oils, which, apart from a large spectrum of fatty acids such as phytosterols, flavonoids and vitamins. Especially with skin problems the use of oil that contains linoleic acid can be helpful, such as grape seed oil, which has a higher concentration of this essential fatty acid.





BIALIND®

Skin-caring lotion for hands and skin

- Contains lipid replenishing ingredients and allantoin
- Absorbs quickly into the skin without a greasy film
- pH skin neutral

BIALIND is a pH skin neutral and rich oil-in-water emulsion for the care of hands after skin irritating activities such as wearing gloves for prolonged intervals, hand washing and wet work. As an oil-in-water emulsion, BIALIND absorbs very quickly without leaving greasy residues, which makes it ideal for medical staff: Despite frequent use, the work process is not disturbed and the hands remain noticeably well-groomed. The light and nourishing formula with lipid replenishing and moisturizing ingredients and allantoin provide a smooth and supple skin feeling. The easily spreadable and quickly absorbed skin care lotion is also suitable for body care and leaves an additionally pleasantly neat feeling due to its fragrance.

Single Unit	Unit	Content	REF
tube	12	100 ml	00-602-001-02
bottle	20	500 ml	00-602-005-02



DESCOMED

Skin cleansing foam

- With allantoin and panthenol
- Rapid and mild skin cleansing of bedridden patients, incontinent patients and patients with anus praeter
- Deodorising effect

DESCOMED skin cleansing foam is a ready-for-use foam for mild skin cleansing and skin care, especially for bedridden patients. DESCOMED skin cleansing foam is pH skin neutral. Due to very mild cleansing agents, DESCOMED skin cleansing foam is well tolerated by the skin and mucous membranes. DESCOMED skin cleansing foam is especially suitable for very strained and irritated skin as it can be used without water, soap or washing lotions. It leaves a nourishing protective layer on the skin.

Single Unit	Unit	Content	REF
spray can	12	500 ml	00-604-005



DESCOMED ÖLBAD

Medical oil bath

- Intensive care of dry and scaly skin
- With aloe vera, jojoba oil, panthenol and vitamin E
- Dermatologically tested

High-quality bath additive with valuable skin-caring oils such as rapeseed oil and jojoba oil which leave a caring protective film on the skin. **DESCOMED ÖLBAD** contains aloe vera and panthenol. **DESCOMED ÖLBAD** is therefore suitable as a bath additive to support the treatment of dry, irritated and scaly skin, for example in older patients with dry eczema.

Single Unit	VE	Content	REF
bottle	9	250 ml	00-609-0025
bottle	6	500 ml	00-609-005
bottle	6	2 L	00-609-020-01



DESCO VITAL

Vitalising gel for application on skin

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

DESCO VITAL is a hydrogel with essential oils from pine needles, eucalyptus, juniper berries and thyme to revitalise the skin. **DESCO VITAL** has a pleasant cooling, relaxing and invigorating effect after strenuous physical activity. It is ideally suited for sports and curative massages as well as general nursing care and all other medical areas where a comfortable relaxing and revitalising effect is desired. **DESCO VITAL** has a pleasant, fresh fragrance and is well tolerated by the skin as it contains pure ethanol based lipid-replenishing properties.

Single Unit	VE	Content	REF
tube	12	100 ml	00-605-001
bottle	20	500 ml	00-605-005





Instruments

Manual Disinfection and Reprocessing

Reusable medical devices need to be reprocessed professionally, as medical devices contaminated with germs are a possible source of infection. For this reason, Dr. Schumacher focuses on a safe and rapid disinfectant effect, a broad spectrum of efficacy and high-performance cleaning right from the product development stage. At the same time, it is equally important for the products to display a high degree of user-friendliness, as well as good material and environmental compatibility. Our products contain as few hazardous substances as possible and contribute considerably to personal protection.



	Application				Area of Use				Active Ingredients				Special Characteristics			Spectrum of Activity						Form				
	Surgical instruments	Flexible endoscopes	Rigid endoscopes	TEE probes	Ultrasonic bath	Cleaning	Disinfection	Final virucidal disinfection	QAC	Alkylamines	Glutaraldehyde	Enzymes	Peracetic acid	Low odour	Material friendly	Corrosion protection	pH-neutral	Bactericidal	Yeasticidal (C. albicans)	Fungicidal	Tuberculocidal	Sporicidal	Limited virucidal effect	Virucidal	Concentrate	Ready-to-use
PERFEKTAN® ENDO	✓	✓	✓		✓	✓	✓	✓					✓	✓	✓		✓	✓		✓		✓		✓		
PERFEKTAN® TB	✓		✓		✓	✓	✓	✓					✓	✓	✓		✓	✓		✓		✓		✓		
PERFEKTAN® NEU	✓	✓	✓		✓	✓	✓		✓				✓	✓	✓		✓	✓		✓		✓		✓		
PERFEKTAN EXTRA**	✓	✓	✓		✓	✓	✓	✓					✓	✓	✓		✓	✓		✓		✓		✓		
DESCOTON EXTRA	✓	✓	✓				✓	✓		✓					✓		✓	✓		✓		✓	✓	✓	✓	
DESCOTON 2% GDA	✓	✓	✓	✓			✓			✓				✓			✓	✓		✓	✓	✓				✓
PERFEKTAN® ACTIVE	✓	✓	✓	✓		✓	✓	✓				✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	
PLURAZYME EXTRA	✓	✓	✓		✓	✓					✓		✓	✓		✓									✓	
INSTRU PLUS**	✓	✓	✓		✓	✓							✓	✓		✓									✓	

** not classified into the Dr. Schumacher hygiene levels
 For full information on each spectrum of activity, please consult the corresponding production information sheet (PIF).



PERFEKTAN® ENDO

Aldehyde-free concentrate for instrument cleaning and disinfection

PREVENT



- High degree of material compatibility
- Ideal for disinfecting pre-cleaning of endoscopes
- Excellent cleaning power

PERFEKTAN ENDO is a material-friendly, active-cleaning instrument disinfectant based on a patented active principle. PERFEKTAN ENDO is an outstanding aldehyde- and phenol-free disinfecting cleaner with excellent cleaning properties and is ideal for disinfecting, non-fixing pre-cleaning of instruments and endoscopes. Thanks to its exceptional antimicrobial effectiveness, a high degree of personal protection is assured during instrument processing.

Composition
100 g solution contain: 3.75 g Cocosporylen diaminguanidinium diacetate, 5.63 g Didecylloxethylmethyl ammonium propionate.

Single Unit	Unit	Content	REF
dosage bottle	10	1 l	00-121-010
bottle	6	2 l	00-121-020-01
canister	3	5 l	00-121-050EXP

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for disinfectant cleaning of flexible endoscopes and all kinds of surgical instruments	3 % - 15 min 2 % - 30 min		
Application recommendation for disinfection of medical devices	1 % - 60 min		
tuberculocidal efficacy EN14348		5 % - 60 min	

PERFEKTAN® TB

Aldehyde-free concentrate for instrument cleaning and disinfection

PREVENT



- Aldehyde-free preparation with strong cleaning power
- High degree of material compatibility
- Pleasant scent

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

Composition
100 g solution contain: 3.75 g Cocosporylen diaminguanidinium diacetate, 5.63 g Didecylloxethylmethyl ammonium propionate.

Single Unit	Unit	Content	REF
dosage bottle	10	1 l	00-122-010
bottle	6	2 l	00-122-020EXD-01
canister	3	5 l	00-122-050EXD

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for disinfectant cleaning of all kinds of surgical instruments	3 % - 15 min 2 % - 30 min		
Application recommendation for disinfection of medical devices	1 % - 60 min		



PERFEKTAN® NEU

Aldehyde-free concentrate for instrument cleaning and instrument disinfection

PREVENT

- Tuberculocidal
- Excellent cleaning properties
- Ideal for cleaning surgical instruments in an ultrasonic bath

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 processing and inhibits protein fixation during cleaning. Due to the disinfecting properties of PERFECTAN NEU, user safety is guaranteed. PERFECTAN NEU is ideally suited for the non-fixing cleaning of endoscopes as well as the use in ultrasound baths.

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for disinfectant cleaning of flexible endoscopes and all kinds of surgical instruments	3 % - 15 min 2 % - 30 min		
Application recommendation for disinfection of medical devices	2 % - 60 min		
tuberculocidal efficacy (EN 14348 / EN 14563)		2 % - 60 min	

Composition
100 g solution contain: 3.6 g N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine.

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



PERFEKTAN® EXTRA

Disinfectant cleaner for instruments

PREVENT

- Aldehyde-free with excellent cleaning power
- High degree of material compatibility
- Antibacterial and virus inactivating cleaning in one step

PERFEKTAN EXTRA is a powerful instrument cleaner with excellent cleaning power and a high degree of material compatibility. PERFECTAN EXTRA contains very efficient corrosion-inhibitors and is free of aldehydes and phenols. Due to its excellent cleaning power, an antibacterial and virus inactivating cleaning of instruments is possible in a single step. The aldehyde-free formulation prevents protein fixation.



Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
application recommendation for disinfecting cleaning with ultrasound	1 % - 5 min		
tuberculocidal efficacy (EN 14348)		5 % - 60 min	

Composition
100 g solution contain: 5.63 g Didecylloxethylmethyl ammonium propionate.

Single Unit	Unit	Content	REF
bottle	6	2 l	00-144-020EXP-01
canister	3	5 l	00-144-050EXP



DESCOTON EXTRA

Disinfectant for instruments and endoscopes

PROTECT

- Virucidal
- Formaldehyde-free concentrate
- Suitable for final disinfection

DESCOTON EXTRA is a fast acting, virucidal, liquid concentrate for disinfecting endoscopes and surgical instruments of all kinds. The formaldehyde-free product formulation is characterised by economical working concentrations, broad effectiveness including virucidal and tuberculocidal effects and good material compatibility. DESCOTON EXTRA is ideal for virucidal final disinfection of flexible and rigid endoscopes as well as medical instruments of all kinds.

Composition
100 g solution contain: 12.0 g Glutaral.

Single Unit	Unit	Content	REF
dosage bottle	10	1 l	00-150-010
bottle	6	2 l	00-150-020-01
canister	3	5 l	00-150-050

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for final disinfection of all kinds of semi-critical medical devices including rigid and flexible endoscopes			2% - 60 min



DESCOTON 2 % GDA

Ready-to-use disinfectant for instruments

PROTECT

- Fast efficacy
- Ready-to-use
- Gentle to materials

DESCOTON 2 % GDA is a ready-to-use product and therefore easy to apply. Due to its high material compatibility as well as its corrosion inhibitors, it is especially suited for sensitive materials. Check your national requirements for endoscope reprocessing.

Composition
100 g solution contain: 2.15 g Glutaral.

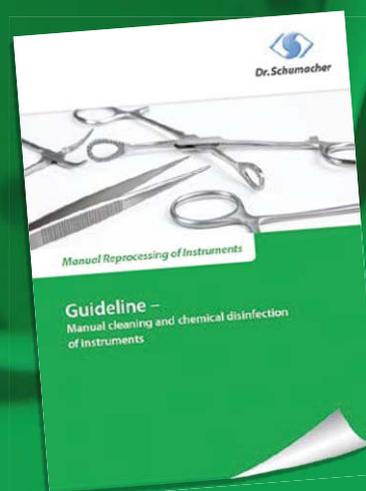
Single Unit	Unit	Content	REF
canister	3	5 l	00-135-050EXP

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Recommended for disinfection of all kinds of semi-critical medical devices including rigid and flexible endoscopes			5 min
sporicidal efficacy (C. difficile)			45 min



MANUAL DISINFECTION AND REPROCESSING

To provide excellent disinfection results in the reprocessing of surgical instruments, disinfection products with a reliable disinfectant effect, a broad activity spectrum and a good cleaning performance are necessary. Besides an exceptional quality the procedures applied to clean and disinfect medical devices are key for optimal hygiene. To learn more about the required procedures, please refer to our brochure "Guideline – Manual cleaning and chemical disinfection of instruments", in which we explain the cycle of instrument reprocessing following the DGSV (German Society for the Supply of Sterilised Materials) as well as the RKI (Robert Koch Institute).





PERFEKTAN® ACTIVE

Powder concentrate for instrument disinfection

PROTECT

- Very good material compatibility
- Superior cleaning performance
- Completely soluble

PERFEKTAN ACTIVE is a highly effective powder concentrate for manual disinfection for all kinds of medical instruments. This product is a low dusting powder, which dissolves quickly and completely in water, for a reliable and safe application. PERFEKTAN ACTIVE is based on the active agent peracetic acid generated in mild alkaline solution. This product combines excellent antimicrobial properties and superb material compatibility. Use of PERFEKTAN ACTIVE avoids protein fixation and enables safe disinfection even under difficult conditions.

Composition
100 g solution contain: Peracetic acid (in-situ) > 850 ppm (1 % solution).

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

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for disinfectant cleaning of endoscopes before thermochemical preparation	1 % - 5 min		
Application recommendation for final disinfection of all kinds of semi-critical medical devices including rigid and flexible endoscopes			1 % - 60 min; 2 % - 30 min



INSTRU PLUS

Liquid detergent cleaner for instruments and endoscopes

- pH-neutral and gentle to all materials
- Strong cleaning power and compatible with all instrument disinfectants
- Suitable for ultrasonic procedures

INSTRU PLUS is a particularly material-friendly product used for thorough cleaning of flexible and rigid endoscopes and all types of instruments. As a pH-neutral, aldehyde-free, tenside-based cleaner it is ideally suited for cleaning flexible endoscopes. INSTRU PLUS is listed by Pentax. In addition, the product makes an exceptionally good cleaning additive for our instrument disinfectants such as PERFEKTAN ENDO, PERFEKTAN NEU, PERFEKTAN TB, DESCOTON 2 % GDA and DESCOTON EXTRA. Because of its excellent material compatibility and good corrosion protection, it is suitable for all instruments made of metal, plastic, ceramic, glass, rubber and porcelain. Suitable for use in ultrasonic baths.

Composition
100 g solution contain: 5 – 15 % Non-ionic surfactants, Preservatives

Single Unit	Unit	Content	REF
bottle	6	2 l	00-104-020-01
canister	3	5 l	00-104-050EXD

Dosage recommendation	
Application recommendation for cleaning of all kinds of surgical instruments	0.25 % - 5 %

ORANGE SOLVENT

Special cleaner for surface cleaning of medical devices



- Made of natural orange oils
- With excellent cleaning power
- Effortlessly removes residues of all types

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

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

PLURAZYME® EXTRA

Tri-enzymatic cleaner for surgical instruments and endoscope reprocessing



- Strong cleaning power
- Ideal for ultrasonic cleaning
- Excellent material compatibility

PLURAZYME EXTRA offers a good material compatibility and is therefore the ideal cleaning concentrate for manual reprocessing of surgical instruments and flexible endoscopes. It is economic in use and recommended for use in ultrasonic baths. PLURAZYME EXTRA does not form foams and is suitable for use in ultrasonic baths. PLURAZYME EXTRA delivers an exceptional cleaning performance due to the combination of highly surface active non-ionic surfactants and a stabilised triple enzyme complex. The self-acting formula counteracts, penetrates and effectively removes all kinds of organic contaminations such as proteins, coagulated blood, mucus, vomit, fat and fecal matter even in hard-to-reach areas.

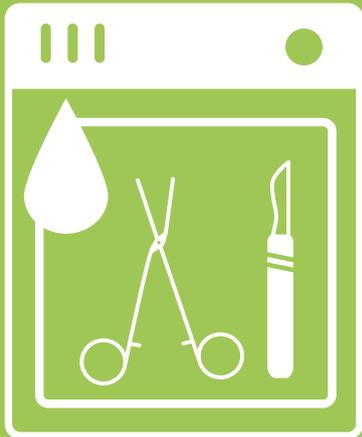


Composition

100 g solution contain: 5 – 15 % Non-ionic surfactants, Preservatives, Enzymes

Single Unit	Unit	Content	REF
bottle	12	1 l	00-138-010EXP
canister	3	5 l	00-138-050EXP

Concentration	Temperature	Soaking Time
0.25 % (2.5 ml/l) Recommended for ultrasonic baths	30 – 40 °C	minimum 5 min
0.4 % (4 ml/l)	30 – 40 °C	minimum 5 min



Instruments

Automated Reprocessing Instrument Maintenance

The correct and safe preparation of medical devices is a big challenge for hospital staff today. Similarly, private practices are also confronted with the increasing diversity and complexity of reprocessing instruments. Cleaning is the central and decisive step in preparation before disinfection and sterilisation. To effectively prevent microbial contamination, blood and tissue remnants have to be completely removed. Therefore, the automated cleaning process is a basic prerequisite for clean and sterile instruments. The following Dr. Schumacher products were specifically developed to meet the high demands of the modern central sterilisation and physician practices.



THERMOSHIELD® DESINFEKTANT

Disinfectant for the chemo-thermal processing of endoscopes

PROTECT

- User-friendly due to low aldehyde content
- Virtually odour free
- High material compatibility

THERMOSHIELD DESINFEKTANT is a material-friendly and user-friendly preparation for chemo-thermal disinfection of flexible endoscopes at 55–60°C. In combination with the neutral cleaner THERMOSHIELD NR, it offers an optimal solution for gentle cleaning and disinfection in endoscope washers. The preceding manual endoscope preparation can be carried out with INSTRU PLUS, PLURAZYME and PERFEKTAN NEU or PERFEKTAN ENDO. THERMOSHIELD DESINFEKTANT is particularly material friendly due to its composition is based on glutaraldehyde. THERMOSHIELD DESINFEKTANT is particularly user-friendly because of its low aldehyde content its odour is considerably lower than that of many comparable products.

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for thermochemical disinfection of flexible endoscopes and all kinds of surgical instruments (55-60°C)			1 % - 5 min

Single Unit	Unit	Content	REF
Canister	3	5 l	00-134-050EXP

THERMOSHIELD® NR

Cleaner for chemo-thermal processing of endoscopes

- High degree of material compatibility
- Certified cleaning performance
- Especially suited for flexible endoscopes

THERMOSHIELD NR is a pH-neutral instrument cleaner for cleaning and disinfection of medical instruments and medical devices in washer disinfectors. Due to its enzyme-free formulation, THERMOSHIELD NR is also suitable for chemo-thermal disinfection and cleaning and can be used in all types of washing machines. THERMOSHIELD NR has been tested intensively and for a long period in hospitals and medical practises. Due to its excellent cleaning results, THERMOSHIELD NR is recommended for all automatic washing machines. A great advantage of THERMOSHIELD NR is its neutral pH. The neutral pH 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 DESINFEKTANT for the automated processing of flexible endoscopes at 55 - 60 °C.



Dosage recommendation	
Application recommendation for automated cleaning of all kinds of surgical instruments	0.3 - 0.7 %
Application recommendation for automated cleaning of endoscopes	0.4 - 0.6 %

Single Unit	Unit	Content	REF
Canister	3	5 l	00-119-050EXP-01

NEW



THERMOSHIELD® XTREME

Mild alkaline-enzymatic cleaner for machine processing

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

THERMOSHIELD XTREME is an enzymatic, mildly alkaline cleaner for automatic processing 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. Yet, THERMOSHIELD XTREME is especially material friendly; even sensitive materials such as anodised aluminium can be processed. The recommended working concentrations correspond to a pH greater than 10.

Single Unit	Unit	Content	REF
Canister	3	5 l	00-170-050E
Canister	1	10 l	00-170-100E

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

AUTOMATIC PROCESSING

THERMOSHIELD®

XTREME

SAFE AND SIMPLE PROCESSING

NEW





THERMOSHIELD® BASIX

Alkaline, surfactant-free liquid cleaner

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

THERMOSHIELD BASIX is a highly alkaline, surfactant-free cleaner for the machine processing of surgical instruments in washer disinfectors. Its good cleaning performance towards 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 greater than 10.

Single Unit	Unit	Content	REF
Canister	3	5 l	00-173-050EXP
Canister	1	10 l	00-173-100EXP

Dosage recommendation

Application recommendation for cleaning Depending on the degree of contamination and area of use:	2 – 8 ml/l
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THERMOSHIELD® C

Neutraliser for machine processing

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

THERMOSHIELD C is a liquid concentrate for use as a neutralising agent in the machine processing 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 and, 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.

Single Unit	Unit	Content	REF
Canister	3	5 l	00-180-050EXP

Dosage recommendation

Application recommendation for neutralisation. Depending on pH and water hardness:	1 – 3 ml/l
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THERMOSHIELD® P

Neutraliser for automatic processing of instruments

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

THERMOSHIELD P is a liquid neutraliser concentrate based on phosphoric acid for the use in automatic processing of medical instruments after using THERMOSHIELD BASIX or THERMOSHIELD XTREME during the cleaning step. 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 reliably removed. Also suitable for basic cleaning.

Single Unit	Unit	Content	REF
Canister	3	5 l	00-181-050EXP

Dosage recommendation	
Application recommendation for neutralisation. Depending on pH and water hardness:	0.1 - 0.3% (1 - 3 ml/l)

NEW



THERMOSHIELD® SHINE

Rinsing agent for automated processing

- Time-saving due to fast and thorough drying
- Acidic pH prevents limescale build-up and deposits
- Preserves the of quality of instruments

THERMOSHIELD SHINE is a liquid concentrate for use as a rinsing aid in washer disinfectors and thermal disinfectors for processing medical and dental instruments as well as medical devices. It is added to the final rinse and the dosage is carried out automatically using the dosing pump or using the rinsing aid compartment of the washer disinfectors or thermal disinfectors. Thanks to its acidic pH, THERMOSHIELD SHINE prevents the formation of deposits 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 processing.

Single Unit	Unit	Content	REF
Dispenser bottle	12	1 l	00-182-010

Dosage recommendation	
Application recommendation for rinsing. Depending on pH and water hardness:	0.1 - 0.3% (1 - 3 ml/l)

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 chemo-thermal reprocessing of bedpans in thermal bedpan washers. It ensures spotless drying of the bedpan, protects the machine from calcification and is low-foaming. THERMO CLEAR is biodegradable acc. to EU detergent regulation because it is based on citric acid.

Single Unit	Unit	Content	REF
canister	3	5 l	00-127-050

Dosage recommendation	
Application recommendation for cleaning	0.1 - 0.3% (1 - 3 ml/l)

SPEZIAL ÖLSPRAY

Spray for maintenance of instruments



- Based on medical-grade white oil
- For hand-piece maintenance and lubrication prior to steam sterilisation
- 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 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.

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





Application aids

Wall Dispensers and Dosage Aids

Complementary accessories for disinfectants and cleaners facilitate the day-to-day handling and dosage of our products. For example, coordinated measuring aids can affect the dripping behaviour and reduce unnecessary consumption. Dispensers and spray heads allow targeted application and dispensing of precise quantities, which optimises consumption. The installation of the holder is flexible, making disinfectants conveniently and immediately available. With these coordinated components, Dr. Schumacher helps you to comply with strict hygiene regulations.





AK 500/1000 PLUS + TOUCHLESS

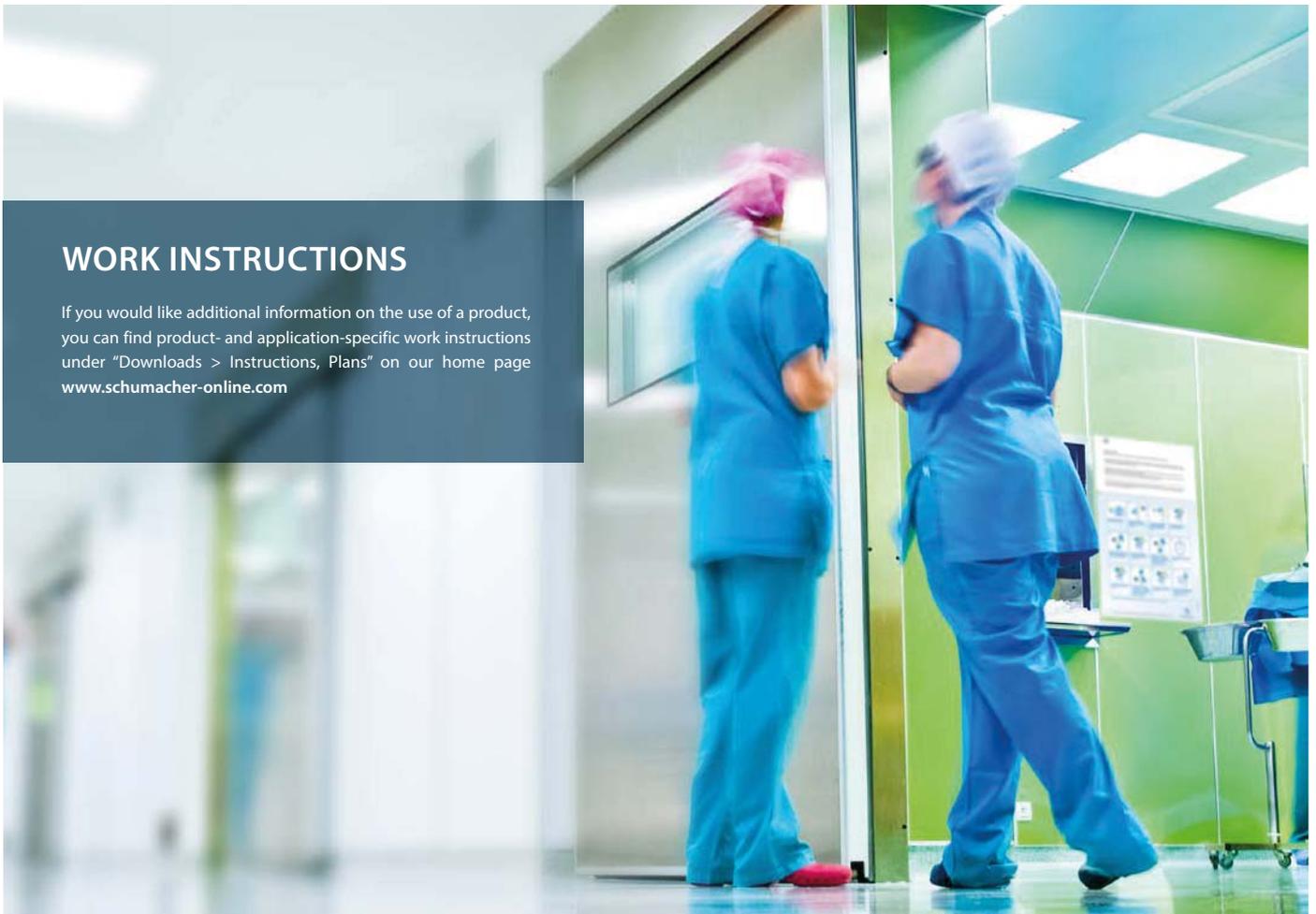
Arm lever wall dispenser and touchless wall dispenser in aluminium housing

Arm lever wall dispenser in aluminium housing with exchangeable stainless steel pump. Easy removal without disassembly. Dispenser is suitable for 500 ml or 1 L dispenser bottles. Dosage quantity is 1.5 ml/stroke by default and can be reduced in three steps. AK 500/1000 PLUS wall dispensers are autoclavable. AK 1000 PLUS TOUCHLESS is a touchless wall dispenser with integrated battery indicator.

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
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 1000 PLUS TOUCHLESS			
wall dispenser	1	1 l	00-911-010TO

WORK INSTRUCTIONS

If you would like additional information on the use of a product, you can find product- and application-specific work instructions under "Downloads > Instructions, Plans" on our home page www.schumacher-online.com





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

RX5 TOUCHLESS

Plastic dispenser for wall installation



RX5T is a contact-free counter-top dispenser for liquid soaps and disinfectants with sensor technology, for 500 ml dispenser bottles. The dispenser is made of plastic and can be used free-standing or installed on a wall or column. Includes exchangeable plastic pump. The average dose is 1.5 ml/stroke; the power supply comes from 4 LR14 batteries.

Single Unit	Unit	Size	REF
RX5T			
Touchless dispenser	1	500 ml	00-911-005RXT





DESIPOINT

Pre-assembled, mobile column stand for wall dispensers

This disinfection column is ideal for entrance areas or other places where wall mounting of dispensers is not desirable. **DESIPOINT** ensures easy access to the hand disinfectant and is particularly user-friendly. The Dr. Schumacher logo is milled into the column. **DESIPOINT** is a hygienic stainless steel constructions for quick and easy mounting, which can be combined with standard dispensers (dispenser not included).

Single Unit	Unit	Size	REF
DESIPOINT	1	140 cm	00-902-DS

Accessoires			
Clip-frame for für DESIPOINT	10		00-902-DS-100



DESIPOINT PRO

Pre-assembled, mobile column stand for wall dispensers

This disinfection column is ideal for entrance areas or other places where wall mounting of dispensers is not desirable. **DESIPOINT PRO** ensures easy access to the hand disinfectant and is particularly user-friendly. The Dr. Schumacher logo is milled into the column. **DESIPOINT PRO** is a hygienic stainless steel constructions for quick and easy mounting, which can be combined with standard dispensers (dispenser not included). **DESIPOINT PRO** is the practice-oriented solution for a variable placement of dispensers. Thanks to its castors, this column can be easily transported to any desired location. Via an integrated information display and loudspeakers, users can be guided audiovisually to disinfect their hands, for example. **DESIPOINT PRO** has an integrated TFT monitor, a loudspeaker and mains cable for power connection (230 V).

Single Unit	Unit	Size	REF
DESIPOINT PRO	1	160 cm	00-902-DSD

Accessoires			
Clip-frame for DESIPOINT	10		00-902-DS-100



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



DESCOFLEX BOTTLE HOLDER MH

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.

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



DESCOFLEX WALL HOLDER

For hand and skin cleansing/disinfection products

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
wall holder	1	500 ml/1 l	00-902-WHEX





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
dosing bottle	1	1 l with 60 ml measuring canister	00-904-010
canister opener	1	-	00-909-050
tap	1	2 l / 5 l / 10 l	00-907-000
tap	1	30 l	00-907-300



SPRAY HEADS

For surface disinfection and 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
spray head	1	1 l	00-905-010
foam spray head	1	1 l	00-912-010



MEASURING JUG/CUP

For surface and instrument disinfection 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.

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

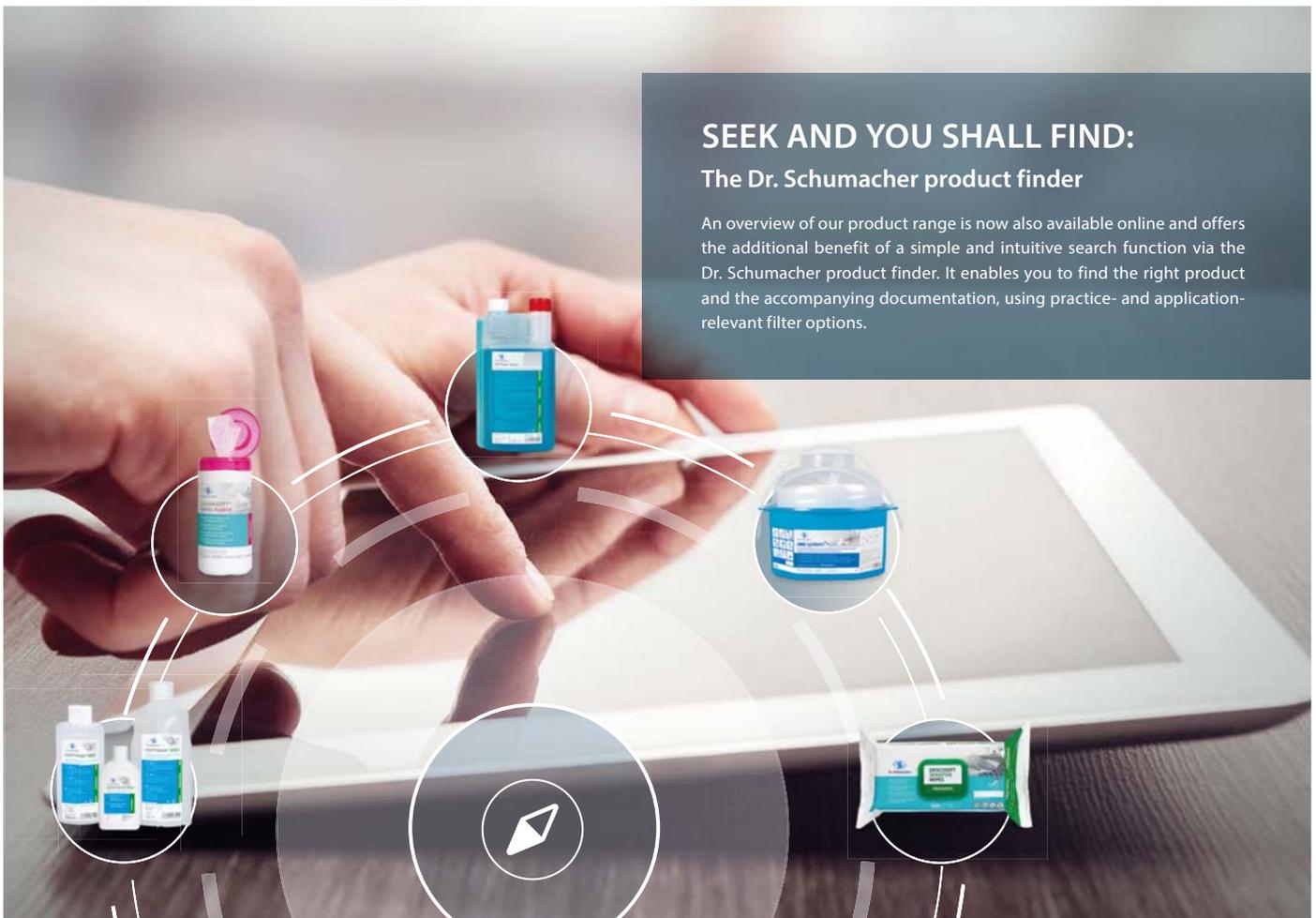
Disinfection tubs are required for cleaning and disinfection during manual processing and, if required, as preparation for automated processing of instruments as well as rigid and flexible endoscopes. The disinfection tub has a removable basket insert, a marker indicating the level of solution, a closely 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.

Capacity	Tub size (l x w x h)	Basket Insert Size	REF
1 l	223 x 149 x 91 mm	145 x 112 x 70 mm	00-908-010
3 l	315 x 206 x 125 mm	205 x 160 x 100 mm	00-908-030
4 l	338 x 208 x 113 mm	277 x 189 x 109 mm	00-908-040
5 l	394 x 260 x 152 mm	320 x 230 x 133 mm	00-908-050
10 l	870 x 235 x 160 mm	695 x 170 x 128 mm	00-908-100

SEEK AND YOU SHALL FIND:

The Dr. Schumacher product finder

An overview of our product range is now also available online and offers the additional benefit of a simple and intuitive search function via the Dr. Schumacher product finder. It enables you to find the right product and the accompanying documentation, using practice- and application-relevant filter options.



*We protect
your health.*

IMPRINT

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