

*We protect  
your health.*



**Dr. Schumacher**



*Disinfection,  
Hygiene and Care*  
Complete Product Range 2021/2022

EN

*„As a family business in the healthcare sector, we want to shape the future in a way that is sustainable. Our decades of competence on top of the expertise of our employees, as well as the use of innovative technologies are vital for reaching our goal. We see ourselves as hygiene specialists with an overwhelming focus on user and patient safety.“*

QUOTE FROM DR. KLAUS RUHNAU



## Our Vision for Health

For more than 40 years, high quality, user-friendly disinfectants have been the cornerstone of Dr. Schumacher’s business. In the spirit of our founder’s, Dr. Henning Schumacher’s, vision and guiding principles, people and their health remain the focus of both our long term goals and day to day operations.

Following his pioneering spirit, Dr. Henning Schumacher founded Dr. Schumacher GmbH in 1978, in Melsungen, Germany. He handed the company over to his sons, Dierk and Jens Schumacher, at the end of the 90’s. The brothers continue to honor their father’s legacy and philosophy as heads of the company today. The marriage of innovation and tradition has shaped our history and has a unique impact on the research and development of new products in an exciting way.



The management of Dr. Schumacher GmbH: from left Dr. Klaus Ruhнау, Dierk Schumacher, Jens Schumacher

With more than 1,850 employees across nine countries and a distribution network spanning over 70 countries, Dr. Schumacher GmbH has become a globally recognized brand and one of Europe’s leading providers in the development and manufacturing of disinfectants and hygiene products. Whether it be hygiene, disinfection and care products for the medical sector, or OEM, private label and cosmetic products for the consumer sector – we offer our customers a comprehensive full-service range. Still located in Malsfeld-Beiseförth, our headquarters in northern Hesse now employs over 500 people and continues to grow and provide value to our neighbors in the surrounding community.

**Convincing Quality**

At Dr. Schumacher, quality is not just a promise – it’s a culture. As a prominent leader in the medical and health industry, we understand our moral responsibility to customers, end-users, and patients. For this reason, we apply the highest quality standards and controls to our products and have implemented the latest

technological advancements and processes in our manufacturing. Our aim is to develop effective, but at the same time, simple solutions that reliably protect staff and patients from infections and contamination. In addition, we’re committed to environmentally friendly working methods that conserve resources. The future of our planet is of great importance to our family business. Dr. Schumacher is a certified manufacturer of medical devices, drugs, biocides and cosmetics and has a validated environmental management system.

It’s not just the quality of our products that’s convincing: our family-owned company also provides our customers with expert advice should you have any questions or issues. We have an extensively trained field service team that regularly visits customers on site, answering their questions and solving problems directly where ever they arise. We gain important insights from dialog with customers and end-users and use this in the continuous development of products and services – making Dr. Schumacher the optimal partner for your health and future.

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.



Sustaining Member



# Dr. Schumacher Hygiene Levels

## All virucidal efficacies color coded

Viruses have had the ability to cause serious illnesses long before the arrival of the novel coronavirus SARS-CoV-2, especially in older and immunocompromised people. Around 85% of all nosocomial outbreaks in medical and care facilities are triggered by viral pathogens<sup>1</sup>. Based on their structure, viruses can be divided into two categories: enveloped and non-enveloped. Enveloped viruses, such as corona, HIV and influenza, offer chemical substances a weak point of entry and are thus easier to inactivate. Non-enveloped viruses, including noro- and coxsackieviruses, are more stable and resistant to disinfectants. The non-enveloped noro-, rota- and adenoviruses are responsible for outbreaks in both healthcare facilities and schools alike on a particularly regular basis. 74% of all nosocomial outbreaks are caused exclusively by noroviruses<sup>1</sup>. These viruses are more stable than enveloped viruses, but not as stable as some other kinds of non-enveloped viruses.

The different resistances of viruses correspond to three disinfectant efficacy spectrums, which are tested as per the methods of the RKI/DVV and in accordance with DIN EN 14476: limited virucidal activity (effective against all enveloped viruses), limited virucidal activity PLUS (effective against all enveloped viruses as well as noro-, rota- and adenoviruses) and virucidal (effective against all enveloped and non-enveloped viruses).

The color coding of the Dr. Schumacher hygiene levels, **PREVENT** :: **PRESERVE** :: **PROTECT** reflect the three virus related efficacy spectrums. This enables users to determine the virus efficacy of most Dr. Schumacher products at first glance.

The following diagram illustrates the system and explains the individual hygiene levels.

Source:  
1. Robert Koch Institute. Nosocomial outbreaks. As of: 12/7/2016. <https://bit.ly/2VfepMo>

Find out more at:  
[www.schumacher-online.com/en/simple](http://www.schumacher-online.com/en/simple)

## PREVENT LEVEL

**Efficacy spectrum:**  
Bactericidal, yeasticidal, **activity against enveloped viruses**

Enveloped viruses are surrounded by a lipid membrane. The lipid membrane presents a weak point of attack and can be easily destroyed by disinfectants. An efficacy spectrum of activity against enveloped viruses is sufficient to achieve this. Many enveloped viruses are of high clinical relevance.

**Relevant viruses:** HBV, HCV and HIV, corona and influenza viruses.

## PRESERVE LEVEL

**Efficacy spectrum:**  
Bactericidal, yeasticidal, **limited spectrum virucidal activity**

In principle, non-enveloped viruses are more stable against disinfectants than enveloped viruses. However, within this group there are some viruses which are less resilient than other non-enveloped viruses. Noro-, rota- and adenoviruses are of clinical relevance here and are responsible for a large number of outbreaks. Since a full spectrum of virucidal efficacy is not necessary here, the efficacy spectrum limited virucidal activity was introduced.

**Relevant viruses:** All enveloped viruses as well as noro-, rota- and adenoviruses

## PROTECT LEVEL

**Efficacy spectrum:**  
Bactericidal, yeasticidal, **virucidal**

In the case of non-enveloped viruses, which are highly resilient, higher disinfectant concentrations and longer contact times may be necessary. A product that offers virucidal efficacy will be effective against all enveloped and non-enveloped viruses.

**Relevant viruses:** Echo-, coxsackie-, rhino-, picorna- and papilloma-viruses

Application relevant additional activity spectra (sporicidal, fungicidal, tuberculocidal, mycobactericidal) can be incorporated in the application recommendations of **Prevent :: Preserve :: Protect**

Product Information Sheet Example



Product page sample



## 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 sterilizing and cleaning of all types of surfaces. ULTRASOL ACTIVE is a fine bluing powder and the active especially reliable and safe in do logs. ULTRASOL ACTIVE is tested in the form of the PK 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 efficacy 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. Disinfection can be easy and safely performed. This peroxide-free and colorless product is especially suitable for disinfection in areas where surface efficacy and outstanding cleaning performance are required.

Spectrum of Efficacy and Contact Times																										
<p>Active substance: Peracetic acid (20 mg/L + 20 mg/L) in solution</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Single Unit</th> <th>Net Weight</th> <th>SKU</th> </tr> </thead> <tbody> <tr> <td>100g</td> <td>100 g</td> <td>80-259-00000000</td> </tr> <tr> <td>1kg</td> <td>1 kg</td> <td>80-259-00000000</td> </tr> </tbody> </table>	Single Unit	Net Weight	SKU	100g	100 g	80-259-00000000	1kg	1 kg	80-259-00000000	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Hygiene levels and contact times / Spectrum of action</th> <th>PREVENT</th> <th>PRESERVE</th> <th>PROTECT</th> </tr> </thead> <tbody> <tr> <td>Application recommendation for surface disinfection</td> <td>1% - 5 min 0.5% - 15 min</td> <td>1% - 15 min</td> <td>2% - 30 min 1% - 60 min</td> </tr> <tr> <td>Application recommendation for tuberculocidal surface disinfection</td> <td></td> <td>2% - 15 min</td> <td></td> </tr> <tr> <td>Application recommendation for sporicidal surface disinfection</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	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			
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### Hygiene Levels in the Catalogue

The majority of products in our complete catalog are color coded according to their spectrum of virucidal efficacy. At first glance, the end-user knows immediately against which group of viruses the disinfectant is effective and which of the three efficacy spectrums, limited spectrum virucidal activity, limited virucidal activity PLUS or virucidal, is achieved. The product efficacy tables also include recommendations that go beyond the respective virucidal efficacy and are based on practical application scenarios.

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			

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

## *Disinfection, Hygiene and Care*

Welcome to Dr. Schumacher! We put the emphasis on people in everything we do. Whether a hygiene specialist, purchasing agent, end-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. We offer unbeatable service, including personal consultation and solutions tailored to your requirements.



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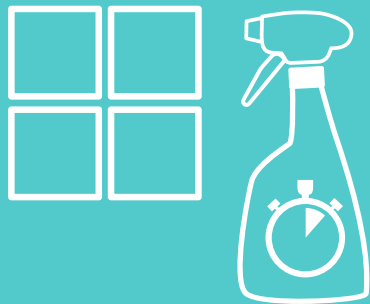
Automated Reprocessing 32



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# Surface

## Rapid Disinfection

The rapid solutions from Dr. Schumacher can be used both for routine and targeted disinfection.

### **The advantages**

**Time-saving:** The time-consuming preparation of solutions and complicated dosage calculations are not necessary.

**Safe application:** Staff benefits from exceptional occupational safety. Incorrect dosing is ruled out.

**Can be used straight away:** Can be used without any time-consuming preparation and is easy to handle.

**Wide range of applications:** Intelligently coordinated formulas from routine scenarios to more demanding situations, e.g., in the vicinity of patients.

Whether alcohol-free or alcohol-based, Dr Schumacher's rapid surface disinfectants offer excellent material compatibility and satisfy a wide range of surface requirements.





	Area of Application			Properties			Active Ingredients			Form		
	Wipe disinfection	Rapid disinfection	Cleaning	Alcoholic	Alcohol-free	Perfume-free	QAC	Aldehyde	Alkylamines	peracetic acid	Concentrate	Ready-to-use
<b>DESCOCEPT AF</b>	✓	✓	✓	✓			✓					✓
<b>DESCOCEPT RF</b>	✓	✓	✓	✓			✓					✓

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



# DESCOSEPT AF

## Alcoholic rapid disinfection

PREVENT

- Ready for use
- Very good cleaning performance
- With fresh scent

DESCOSEPT AF is a ready-to-use, aldehyde-free, rapid disinfectant based on ethanol. DESCOSEPT AF has a pleasant fresh scent. The product is highly effective against enveloped viruses and possesses excellent cleaning properties. DESCOSEPT AF is suitable for surface disinfection in areas where rapid effectiveness is required.

**Composition**  
100 g solution contain: 42 g ethanol (v/v 50 %), 0.05 g didecylidimethyl ammonium chloride. Contains perfumes.

Single Unit	Unit	Content	REF
bottle	36	100 ml	00-TR311-0010
bottle	12	1 l	00-TR311-010
canister	3	5 l	00-TR311-050

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



# DESCOSEPT RF

## Alcohol based rapid surface disinfectant for medical devices

PREVENT

- Fast and residue-free drying
- For all alcohol resistant surfaces
- Pleasant odor

DESCOSEPT RF is a residue-free rapid surface disinfectant for use on all types of alcohol-resistant surfaces and for disinfection and cleaning of non-invasive medical devices. Ideal for areas that require quick contact and drying times without leaving streaks.

**Composition**  
100 g solution contain: 63 g 2-Propanol (%70 (v/v)),Perfum.

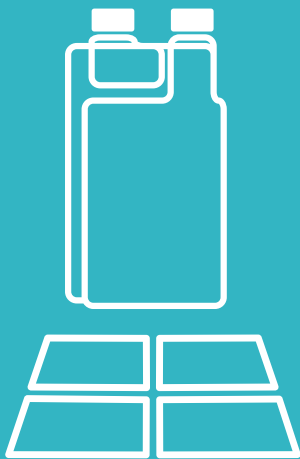
Single Unit	Unit	Content	REF
bottle	36	100 ml	00-TR325-0010
bottle	12	1 l	00-TR325-010
canister	3	5 l	00-TR325-050

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection	30 s		
Application recommendation for tuberculocidal surface disinfection	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.



# Surface

## Concentrates for Surface Disinfection

Dr. Schumacher offers a wide range of highly effective disinfectant concentrates for surface disinfection and cleaning.

### The advantages

**Flexible:** The concentration and contact times can be individually tailored to the specific requirements.

**Practical:** With minimal soiling, cleaning and disinfection are possible in a single step.

**Efficient:** Greater volumes of solution can be prepared for large surface areas.

**Combinable:** Extremely user-friendly usage together with the Dr. Schumacher disinfection wipe systems.

Whether as a liquid or powder concentrate, the comprehensively effective Dr. Schumacher concentrates enable reliable and material-friendly surface disinfection from routine scenarios through to outbreaks.



	Area of Application			Properties			Active Ingredients			Form		
	Wipe disinfection	Rapid disinfection	Cleaning	Alcoholic	Alcohol-free	Perfume-free	QAC	Aldehyde	Alkylamines	peracetic acid	Concentrate	Ready-to-use
<b>CLEANISEPT® TB</b>	✓	✓	✓		✓	✓	✓				✓	
<b>CLEANISEPT® SPRAY</b>	✓	✓	✓		✓	✓	✓					✓

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



# CLEANISEPT® SPRAY

Concentrated disinfectant for surface disinfection and cleaning

PRESERVE

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

CLEANISEPT SPRAY is an aldehyde-free concentrate for disinfection and cleaning of medical area and all kinds of surfaces. CLEANISEPT SPRAY 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 SPRAY 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; 0,25 g didecyldimethylammonium chloride, 0,5 g alkylbenzylidimethylammonium chloride.

Single Unit	Unit	Content	REF
bottle	12	1 l	TR204S-010
bottle	4	2,5 l	TR204S-025
canister	3	5 l	TR204S-050

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® TB

Concentrated disinfectant for surface disinfection and cleaning

PRESERVE

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

CLEANISEPT TB is an aldehyde-free concentrate for disinfection and cleaning of medical area and all kinds of surfaces. CLEANISEPT TB 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 TB 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: 6.65 g Benzylammoniumchlorid (C12-16), 3.35 g Didecyldimethylammonium chloride

Single Unit	Unit	Content	REF
bottle	10	1 l	00-TR204TB-010
bottle	6	2 l	00-TR204TB-020
canister	3	5 l	00-TR204TB-050

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for surface disinfection		0.25% - 5 min	
Application recommendation for tuberculocidal surface disinfection		0.25% - 5 min	



# Hand and Skin

## Decontamination

The Dr. Schumacher products for the antimicrobial washing of patients' skin and hands contain the active agent chlorhexidine and are effective against bacteria, including multi-resistant pathogens such as MRSA and *A. baumannii*. A retrospective study shows: the whole body washing with chlorhexidine preparations resulted in a significant drop in acquisition and in the sepsis rate.

### The advantages

**Highly effective:** MRSA and other multi-resistant pathogens such as VRE, ESBL and MRGN are reliably inactivated.

**Efficient:** Antimicrobial wipes are not only handy but also save time.

The wash lotion with its mild surfactants and moisturizers as well as the non-woven wipes saturated in mild solution are extremely kind to the skin and thus also ideal for patients with sensitive skin.

Source:  
Borer, A., et al., Impact of 4% chlorhexidine whole-body washing on multidrug-resistant *Acinetobacter baumannii* skin colonisation among patients in a medical intensive care unit. *J Hosp Infect*, 2007, 67(2): p. 149-55.



	Application Areas			Product Properties					
	Antimicrobial cleansing	Hygienic hand wash	Antimicrobial hair washing	Microwaveable	Without alcohol	pH skin neutral	Lipid replenishing	Perfume-free	Colourant-free
DECONTAMAN PRE WASH	✓	✓	✓		✓	✓	✓	✓	✓

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





# DECONTAMAN PRE WASH

Antimicrobial washing lotion for hands and skin

- Short contact time: 30 seconds
- For presurgical, antimicrobial patient washing and decontamination
- Bactericidal, yeasticidal, active against enveloped viruses s

DECONTAMAN PRE WASH is an antimicrobial washing 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 and WHO. Free of colourants.

<b>Composition</b>			
100 g solution contain: 4 g Chlorhexidine digluconate, 1,5 g 2-phenoxyethanol			

Single Unit	Unit	Content	REF
bottle	36	100 ml	00-TR531-0010
bottle	20	500 ml	00-TR531-005
bottle	12	1 l	00-TR531-010
canister	3	5 l	00-TR531-050

Spectrum of Efficacy and Contact Times				15 s	30 s
<b>Bacteria and Yeasts</b>					
application recommendation for hygienic handwash*	EN 1499 / VAH				●
<b>Viruses</b>					
activity against enveloped viruses	EN 14476	dirty conditions			●
<b>Additional EN Test Results</b>					
bactericidal	EN 13727	dirty conditions	●		
yeasticidal (C. albicans)	EN 13624	dirty conditions			●

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



# Whole-body washing

## Patient washing and antimicrobial cleansing

Suggested products: DECONTAMAN PRE WASH

### Face

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

### Chest/stomach

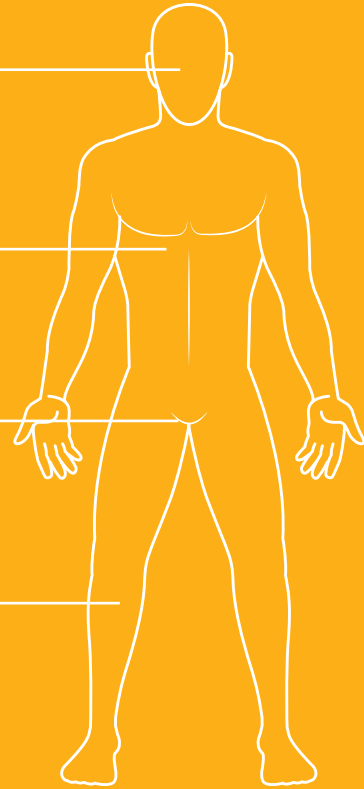
Remove clothing from upper body and wash torso from the neck down to the belly button. Keep lower body warm

### Genital area

Perform intimate care.

### Legs

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



### Back

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

### Arms

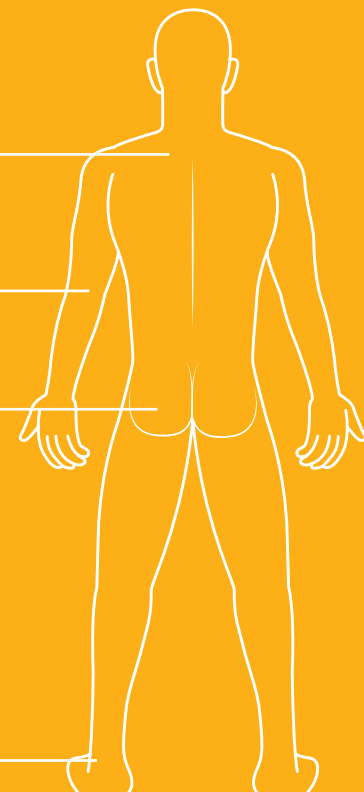
Starting at the fingertips wash hands, arms and especially the armpits.

### Buttocks

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

### Feet

Wash feet starting with the toes. Due to hygienic reasons, wash genital area and buttocks last.





# Hand and Skin

## Hand Disinfection

The hand disinfectant range from Dr. Schumacher stands out with its large selection for various hand disinfection requirements and needs.

**The wide range of products**

**Spectrums of efficacy:** The right preparation for all efficacy requirements.

**Care substances:** Moisturizing ingredients protect the skin from drying out and promote skin health.

**Contact times:** Quick and safe even when faced with increased demands.

**Formulations:** Preparations which contain no perfume, colors or additives prevent skin irritations.

**Preparations:** Available as a liquid hand disinfectant or in a handy gel format.

The effectiveness and safety of the ethanol- and propanol-based formulas have been proven.



	Appli- cation Areas	Active Ingredients	Product Properties
	Hyg. hand disinfection in accordance with EN 1500		
	Surg. hand disinfection in accordance with EN 12791		
		Ethanol	
		2-Propanol	
		Lipid replenishing	
		Perfume-free	
		Colourant-free	
<b>ASEPTOMAN® 72%</b>	✓	✓	✓

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



## ASEPTOMAN 72%

### Alcoholic hand disinfectant

PREVENT

- Ethanol-based for hygienic and surgical hand disinfection
- Fast acting against Noroviruses (MNV)
- Contains emollients, gentle to the skin

ASEPTOMAN 72% is a ready-to-use, ethanol-based hand disinfectant to be rubbed into the skin. It is suitable for daily hygienic hand disinfection and surgical hand disinfection. The efficacy of ASEPTOMAN 72% fulfills latest EN standards for the medical sector. It is bactericidal, yeasticidal, tuberculocidal, mycobactericidal as well as active against all enveloped viruses and Noroviruses (MNV) according to EN standards. Its advanced formulation is dermatologically tested and is especially gentle to the skin. ASEPTOMAN 72% contains moisturisers for skin care and offers a pleasant fresh scent.

**Composition**  
100 g solution contain: 64.4 g (72% V/V) Ethanol. Perfume.

Single Unit	Unit	Content	REF
spray bottle	50	50 ml	00-TR457-0005
spray bottle	36	100 ml	00-TR457-0010
spray bottle	48	150 ml	00-TR457-0015
spray bottle	20	250 ml	00-TR457-0025
bottle	20	500 ml	00-TR457-005
bottle	12	1 l	00-TR457-010
canister	3	5 l	00-TR457-050

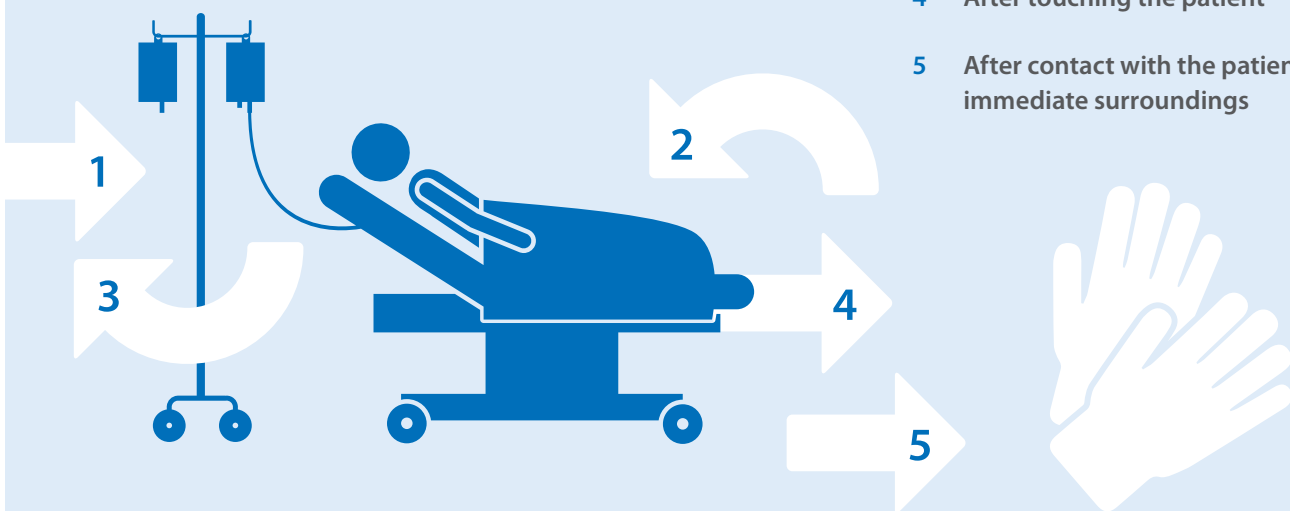
Application recommendation for surgical hand disinfection

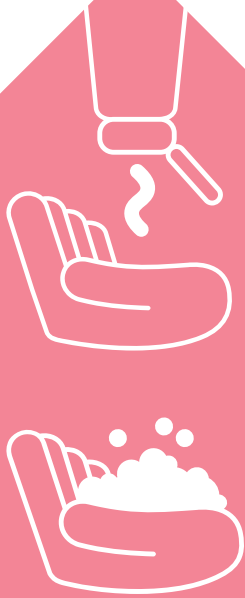
Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for hygienic hand disinfection	30 s		
Application recommendation for surgical hand disinfection	2 min		



## 5 Moments for Hand Hygiene

- 1 Before touching the patient
- 2 Before aseptic activities
- 3 After contact with potentially infectious material
- 4 After touching the patient
- 5 After contact with the patient's immediate surroundings





# Hand and Skin

## Cleansing, care and protection

With its newly developed DESCOLIND series, Dr. Schumacher is setting standards in hand cleaning, care and protection.

**COMFORT:** The cleansing, care and protection products in this series are suited for users with normal skin.

**PURE:** This series for cleansing and care as well as skin protection offers products which are free from dyes and perfumes. It is recommended for dry and sensitive skin types.



	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	Suitable for dispensers	Cooling effect	Hypoallergenic formulation	Normal skin	Dry skin	Very dry skin	Sensitive skin
SALINA	✓	✓	✓		✓			✓						✓			
DESCOMED	✓		✓	✓	✓	✓		✓						✓	✓	✓	

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





# SALINA

## Washing lotion

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

SALINA washing lotion is a mild cleansing, pH skin-neutral washing 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 washing lotion cleanses mildly and is economical to use.

Single Unit	Unit	Content	REF
bottle	36	100 ml	00-TR631-0010
bottle	20	500 ml	00-TR631-005
bottle	12	1 l	00-TR631-010
canister	3	5 l	00-TR631-050



# 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. DESCOMED skin cleansing foam is especially suitable for very strained skin as it can be used without water, soap or washing lotions"

Single Unit	Unit	Content	REF
bottle	12	500 ml	00-TR9604-005





# Instruments

## Manual Disinfection and Reprocessing

The products for the manual cleaning and disinfection of medical devices are focused on ensuring rapid and reliable disinfection, a wide spectrum of efficacy and highly effective cleaning.

### **The advantages**

**Safe application:** Low percentage of hazardous substances and simple use ensure high occupational safety.

**Efficient:** The exceptional cleaning power and rapid disinfection effect accelerate working processes.

**Value-preserving:** Contamination is removed in a material-friendly manner.

In addition to the user-friendliness and material compatibility of the products, Dr. Schumacher also puts emphasis on environmental compatibility during development.



	Application				Area of use			Active ingredient				Special characteristics			Form					
	Surgical instruments	Flexible endoscopes	Rigid endoscopes	TEE probes	Ultrasonic bath	Suction system	Cleaning	Disinfection	Final virucidal disinfection	QAC	Alkylamines	Glutaraldehyde	Enzymes	Peracetic acid	Low odour	Material friendly	Corrosion protection	pH neutral	Concentrate	Ready-to-use
<b>DESCOTON 2% GDA</b>	✓	✓	✓	✓				✓				✓				✓				✓
<b>ENDEX®</b>	✓	✓	✓		✓		✓	✓		✓				✓	✓	✓			✓	
<b>DESCOTON PAA</b>	✓	✓	✓																	
<b>DESCOTON OPA PLUS</b>	✓	✓	✓					✓	✓			✓				✓	✓		✓	
<b>DESCOTON PAA RTU</b>	✓	✓	✓																	



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

# DESCOTON 2 % GDA

## Disinfectant for instruments

PROTECT



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

DESCOTON 2 % GDA is a ready to use product and therefore easy in application. 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-TR135-050

Spectrum of Efficacy and Contact Times			
Hygiene levels and contact times / Spectrum of action	PREVENT	PRESERVE	PROTECT
Application recommendation for disinfection of medical devices			5 min
Mycobactericidal, tuberculocidal efficacy			5 min

# ENDEX®

## Instrument disinfection by immersion for medical instruments and endoscopes

PREVENT



- Aldehyde-free, phenol-free, formaldehyde-free preparation
- Sensitive to all materials – suitable for reprocessing endoscopes.
- Ready-to-use

ENDEX is a ready-to-use preparation that allows manual disinfection of medical instruments. It is aldehyde- and phenol-free. The corrosion inhibitors it contains offer protection for materials. The solution does not emit any unpleasant odor, ensuring ease of use for the user. It is intended for short-term disinfectant cleaning. It has been specifically designed for all endoscopes (flexible, rigid) as well as thermolabile and thermostable medical instruments and materials. It is used in all circulation applications and ultrasonic baths.

**Composition**  
100 g solution contain: 0,11 g cocos propylene diamine guanidinium diacetate, 0,17 g didecyl methyl oxyethyl ammonium propionate.

Single Unit	Unit	Content	REF
canister	3	5 l	00-TR121S-050

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	15 min		
Application recommendation for disinfection of medical devices	15 min		



## DESCOTON PAA

High level disinfectant for medical instrument and endoscope

PROTECT

- Peracetic acid and hydrogen peroxide-based
- Sensitive to materials
- Rapid efficacy

DESCOTON PAA is a peracetic acid-based and hydrogen peroxide-based, high level concentrated product. DESCOTON PAA provides a high level of disinfection for semi-critical instruments and endoscopes. DESCOTON PAA is suitable for use within heat-resistant and non-durable materials. It does not contain aldehyde and phenol.

**Composition**  
100 g solution contain: 7 g peracetic acid, 3 g hydrogen peroxide.

Single Unit	Unit	Content	REF
canister	3	5 l	00-TR9105-050

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			%1 - 5 dk.
Application recommendation for inc. Sporocidal (B. Subtilis)			%3 - 5 dk.



## DESCOTON OPA PLUS

High level disinfectant for medical instrument and endoscope

PROTECT

- Contains ortho-phthalaldehyde
- Sensitive to materials
- Rapid efficacy

When used in accordance with the user manual of DESCOTON OPA PLUS, it provides high-level disinfection for heat-sensitive reusable semicritical medical devices, especially of which sterilization is not possible. DESCOTON OPA PLUS is suitable for disinfection of all kinds of heat-resistant and heat-labile materials and is compatible with all kinds of materials. It is suitable for use both in disinfection baths processing manually and in semi-automatic endoscopic machines. It has anti-corrosive effect as it contains anti-corrosion agents.

**Composition**  
100 g solution contain: 0.55 g ortho-phthalaldehyde.

Single Unit	Unit	Content	REF
canister	3	5 l	00-TR9100-050

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			5 min.
Application recommendation for inc. Sporocidal (B. Subtilis)			3 hours



# DESCOTON PAA RTU/ ACTIVATOR

PROTECT

High level disinfectant for medical instrument and endoscope

- Peracetic acid & hydrogen peroxide- based
- Sensitive to materials
- Rapid efficacy

DESCOTON PAA RTU is a peracetic acid-based and hydrogen peroxide- based, high level, ready-to-use product. DESCOTON PAA RTU is sold as a dual pack consisting the solution and activator, and while using, the two components are mixed with each other. DESCOTON PAA RTU provides a high level of disinfection for semicritical instruments and endoscopes. It is suitable for use within heat-resistant and heat-labile materials. It contains anti-corrosion agents.

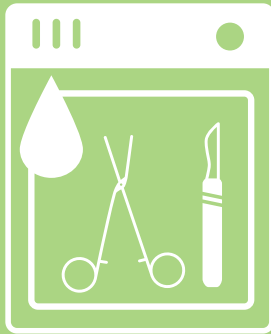
**Composition**  
 100 g DESCOTON PAA RTU solution contains: 0.25 g peracetic acid,  
 100 g DESCOTON PAA RTU ACTIVATOR contains: 5 g hydrogen peroxide

Single Unit	Unit	Content	REF
canister	3	5 l	00-TR9110-050
<b>DESCOTON PAA RTU ACTIVATOR</b>			
bottle	3	250 ml	00-TR9111-0025

**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			5 min
Application recommendation for inc. Sporocidal (B. Subtilis)			5 min





# Instruments

## Automated cleaning and disinfection

The THERMOSHIELD range for automated reprocessing of reusable medical devices offers the right product for every stage of the reprocessing cycle.

### The advantages

**Top-performing:** The excellent cleaning performance lays the foundation for reliable disinfection success.

**Efficient:** A coordinated product range simplifies handling and helps to streamline the reprocessing cycle.

**Practical:** The compatibility of the products with various machine types simplifies reprocessing.

**Value-preserving:** Formulas which are gentle on materials protect highly complex and costly medical devices, e.g., endoscopes and robotic instruments as well as washer-disinfectors.

The modern Dr. Schumacher formulations support reprocessing units for medical devices with their simple handling and to the protection of staff and patients.

	Application	Wash ware							Area of use				pH value			Active ingredient				
	Surgical instruments																			
	Flexible endoscopes																			
	Rigid endoscopes																			
	Glas ware																			
	MIC & Da Vinci instruments																			
	Ophthalmological instruments																			
	OR shoes																			
	Dental handpieces & contra angles																			
	Bedpans																			
	Basic cleanse																			
	Cleaning																			
	Neutralisation																			
	Rinse aid																			
	Disinfection																			
	Acidic																			
	Neutral																			
	Mildly alkaline																			
	Alkaline																			
	Glutaraldehyde																			
	Enzymes																			
	Surfactants																			
	Citric acid																			
	Phosphoric acid																			
<b>THERMOTON® CLEANER</b>	✓								✓											
<b>THERMOTON® N</b>	✓									✓				✓						✓
<b>THERMOTON® CLEAR</b>	✓							✓		✓				✓					✓	

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







# THERMOTON® CLEANER

## Alkaline liquid cleaner

- pH > 10 at the working concentration
- Low-foaming
- Contains corrosion inhibitors

THERMOTON CLEANER is a liquid alkaline cleaner for the thorough and residue-free cleaning of surgical instruments - also at different levels of water hardness. Foam inhibitors and corrosion inhibitors prevent interfering foaming and protect the machine and the instruments. A pH-value > 10 in the working solution and a new cleaning system, prevent protein fixation on medical devices according to the Robert Koch Institute guidelines for prion prophylaxis.

Single Unit	Unit	Content	REF
flat canister	3	5 l	00-TR117-050

Dosage recommendation	
Application recommendation for cleaning Depending on soiling/water quality	0.3 - 0.7 % - exposure time 10 min

### 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.

## THERMOTON® N

### Neutralizer for automated washers



- Based on phosphoric acid
- Considerably reduces calcifications
- Contains corrosion inhibitors

THERMOTON N is a liquid, acidic neutralizer for application in specialized washers for medical products. It is surfactant free. THERMOTON N is added to the first rise after using an alkaline cleaner.

Single Unit	Unit	Content	REF
bottle	10	1 l	000-TR140-010
flat canister	3	5 l	00-TR140-050

#### Dosage recommendation

Application recommendation for automated cleaning of all kinds of surgical instruments

0.3 - 0.7 %



## THERMOTON® CLEAR

### Clear rinsing agent with neutralizing properties

- Based on citric acid
- Ensures spotless drying of all materials
- Contains corrosion inhibitors

THERMOTON CLEAR is a liquid clear-rinsing agent with neutralizing properties for thermal treatment of medical devices. Special non-foaming wetting agents ensure spotless drying of all materials. Integrated corrosion inhibitors guarantee a high material compatibility. THERMOTON CLEAR can also be used as a neutralizer after the use of alkaline cleaners.

Single Unit	Unit	Content	REF
flat canister	3	5 l	00-116-050

#### Dosage recommendation

Application recommendation for automated cleaning of all kinds of surgical instruments

0.3 - 0.7 %



## THERMOSHIELD® XTREME: EFFICIENT REMOVAL OF ORGANIC CONTAMINATION

The surfactants contained in THERMOSHIELD XTREME not only convince with excellent cleaning power and spotless drying, but also with their very good material compatibility. In combination with a highly active enzyme complex, the ingredients efficiently remove any kind of organic contamination.

### The active principle of enzymes and surfactants:

- Enzymes such as proteases break down water-insoluble organic contamination into water-soluble smaller components.
- These fission products can be dissolved and rinsed away by the surfactants more easily.





# Application aids

## Wall Dispensers and Dosage Aids

The application aids from Dr. Schumacher help to ensure the right concentration, dosage and application of cleaning and disinfection products. The accessories impress with high-quality materials and their long, maintenance-free service lives.

### **The range of products**

**Dose dispensers:** The dispensers guarantee targeted application and precise doses for optimal product use.

**Wall holders:** With the holders which can be flexibly mounted, disinfectants can be made easily available and ready for use in virtually any location.

**Dosage systems:** Microprocessor-controlled equipment ensures maximum dosage precision, simple removal of the solution and economic use of the disinfection product.

Every single accessory in the Dr. Schumacher range contributes to the economic use of products and the streamlining of workflows.



## WALL DISPENSER TR 1000

Plastic wall dispenser for the application of hand disinfection, washing lotion and care products in 1000 ml bottles

Complementary accessory to facilitate the daily use and dosage of disinfection, care and cleaning products. The lever of the **WALL DISPENSER TR 1000** 1000 ml dispenser bottles is adjustable to dispense various amounts/ stroke. The exact dosage positively influences consumption and enhances compliance.

Single Unit	Unit	Content	REF
<b>WALL DISPENSER TR 1000</b>			
wall dispenser for 1000 ml dispenser bottles	1	6 pieces	00-906-005-02

## 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



## 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	DZJ-30
Dosing pump with 25 ml/stroke	1	2 l/5 l/10 l	DZJ-25
Dosing pump with 4 ml/stroke	1	500 ml/1 l	DZJ-4
Dosing pump with 3 ml/stroke	1	500 ml/1 l	DZJ -3
Dosing pump with 1,5 ml/stroke	1	500 ml/1 l	DZJ-1,5





## STRIPS

### For instrument disinfectants

The strips are available different versions: for products with glutaraldehyde, peracetic acid, orthophthal aldehyde and amine.

Single Unit	Unit	Content	Usage Area	REF
sachet	1	30 g	For Descoton 2% GDA Strip	STRIP-135
sachet	1	30 g	For Perfektan Endo Strip	STRIP-121
sachet	1	30 g	For Descoton OPA Plus Strip	STRIP-9100
sachet	1	30 g	For Descoton PAA Strip	STRIP-9105
sachet	1	30 g	For Descoton PAA RTU Strip	STRIP-9110



## NEUTRALIZING

### For products with aldehyde

The neutralizing are different versions: for Descoton 2% GDA and Descoton OPA Plus

Single Unit	Unit	Content	Usage Area	REF
sachet	1	30 g	Sodium Bisulphat	NTR-135
sachet	1	30 g	Glycine	NTR-9100

*We protect  
your health.*

## **IMPRINT**

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