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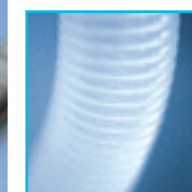
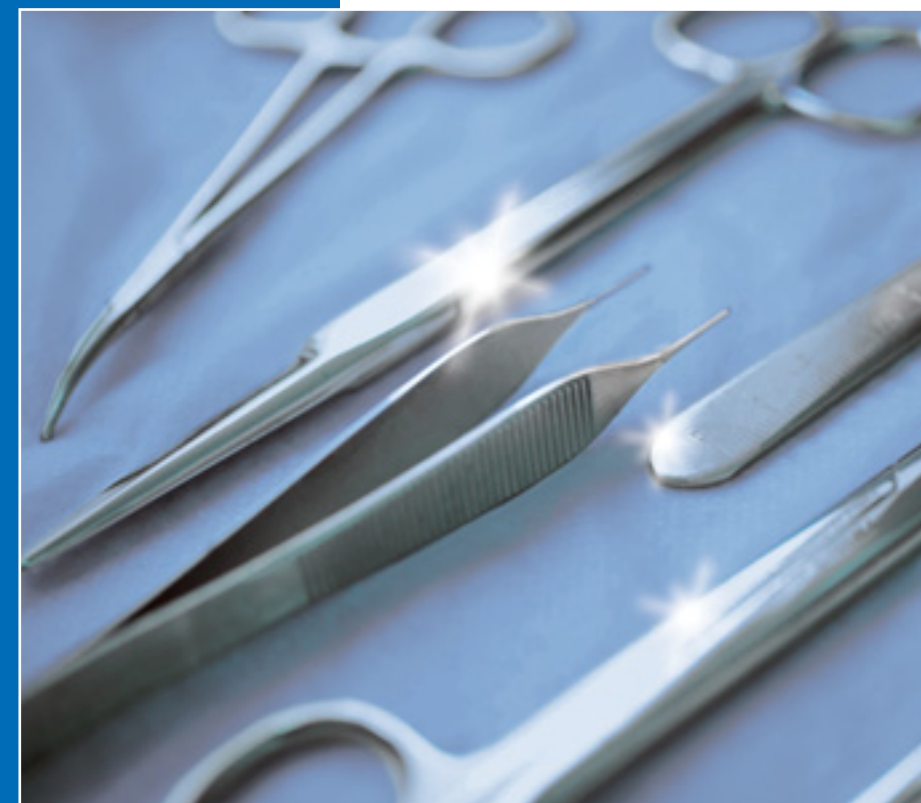
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ECOLAB®

Sekumatic®

Disinfection of instruments for your safety.



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Sekusept Nov. 2006

Health Care

Perfect hygiene is
a question of responsibility.

Ecolab takes responsibility. It affects the way we think and act. We know that the success of your work depends to a great extent on the reliability of our products. Especially in important areas such as hygiene and cleaning, a reliable partner is crucial. The experience we have gained over decades as well as our high competence and customer-oriented policy provide confidence, and the fact that we also take responsibility provides safety. A company that takes responsibility has a different attitude and thus a different way of working. Discover the differences.



Ecolab takes responsibility.

For quality.	For powerful innovations.	For staff and patients.	For making full use of our Sekumatic® products.	For high-quality technical service.	For the environment.
<p>For this reason,...</p> <p>... all Sekumatic® products are precisely tailored to the requirements in the medical field.</p> <p>... Ecolab works in close collaboration with the manufacturers of the cleaning and disinfection devices used in hospitals already during the product development stage. Everything in accordance with standard EN 15883.</p> <p>... all Ecolab products are scientifically tested in application technology laboratories. Ecolab takes responsibility for continuously improving products and processes.</p>	<p>For this reason, ...</p> <p>... Ecolab continues to improve its products and researches new developments.</p> <p>... Ecolab has exclusive use of the patented disinfectant agent Glucoprotamin® which can replace the aldehydes in many applications.</p> <p>... Ecolab develops system products which are easy to use. Sekumatic® FDR, for example, combines cleaning and disinfection in one product.</p> <p>... Ecolab is the leading pioneer in the development of peracetic acid-based cleaners and disinfectants such as used in the PerOxyBalance® system, which is safe for user and safe for instruments.</p>	<p>For this reason, ...</p> <p>... Sekumatic® products do not just provide for a wide range of applications and a high material compatibility, but also provide maximum protection for patients and staff.</p> <p>... in collaboration with the manufacturers of cleaning and disinfection devices, such as Miele, Olympus and Fresenius, Ecolab develops optimized products for every process.</p> <p>... Ecolab is involved in research groups such as the A-K-I, who develop the requirement specifications for safe disinfection and cleaning. Ecolab is also represented in the working groups of other european countries which are concerned with cleaning and disinfection.</p>	<p>For this reason, ...</p> <p>... our Ecolab staff offers competent advice when you choose procedures and products and provides comprehensive assistance for using them properly.</p> <p>... Ecolab develops innovations in order to find solutions to user problems. These can be specially tailored to the requirements on site. We provide solutions to customer problems which go beyond the use of our chemical products.</p> <p>... Ecolab organizes training sessions and seminars for further training. These can be held on site or at Ecolab in Düsseldorf.</p> <p>... Ecolab publishes documentation for each product.</p>	<p>For this reason, ...</p> <p>... Ecolab offers the best possible support from the planning stages through to the scheduled check of the metering.</p> <p>... specially trained Ecolab technicians calibrate our metering units on site. In the process, we work closely together with corresponding machine manufacturers.</p> <p>... Ecolab is responsible for maintaining the metering equipment and checking the corresponding product metering. Ecolab also checks the program processes and provides detailed help in the case of problems.</p> <p>...Ecolab offers help with the validation of the cleaning and disinfecting devices and the metering units.</p>	<p>For this reason, ...</p> <p>... Ecolab has been creating ecological reports for all products.</p> <p>... ecological safety and responsible use of resources is one of the most important principles of Ecolab.</p> <p>... Ecolab provides toxicological assessments for all products.</p>



Cleaning - as precise as surgery itself.

Surgery

Surgery has higher and more complex hygiene requirements than any other medical sector. Precise and extremely fine instruments made of various materials have to be thoroughly cleaned and disinfected. The challenge is to combine hygiene and material compatibility with the best possible result.

NEW

Alkaline cleaning Sekumatic® PR Sekumatic® FR	Mild alkaline cleaning Sekumatic® Multiclean	Enzymatic cleaning Sekumatic® FRE
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Ideal for
instruments to be cleaned which tolerate alkaline and acid media. For instruments with a variety of surfaces. Also for complex instruments which are difficult to clean.

- surgical instruments (scalpels, scissors, etc.)
- instruments for minimal invasive surgery
- plastic

Advantages of the process

- efficient system which consists of alkaline cleaners and especially adapted neutralizing agents. Alkaline cleaner available with and without tensides
- excellent cleaning performance reaches even difficult-to-reach places with powerful dirt dissolving solution

Ideal for
instruments which are made of sensitive materials, such as

- color anodized surfaces
- plastics or plastic-coated metals
- plastic
- high-quality optics.

Advantages of the process

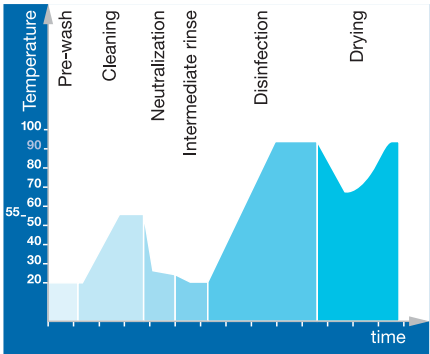
- high cleaning performance through especially developed formulation with phosphates
- cleaner in accordance with the recommendation for vCJD from RKI (Robert-Koch-Institut = German health office); pH >10 at 55° C.
- high cleaning performance irrespective of the degree of contamination
- sensitive and insensitive materials can be cleaned at the same time
- ideal cleaning performance even at places that are difficult to clean
- depending on water quality, no neutralization required
- high material compatibility

Ideal for
instruments which are made of sensitive materials, such as

- color anodized surfaces
- plastics such as theater overshoes
- high-quality optics.

Advantages of the process

- high cleaning performance as a result of liquid enzymatic cleaner with an ideal tenside combination
- high efficiency at low temperatures (40 - 55° C)
- gentle cleaning in the pH-neutral range and at low temperatures if deionized water quality is used
- high cleaning performance for various fields of application



Source: Instrument working group (AKI)

Washer program with thermal disinfection

For neutralisation Ecolab offers Sekumatic FNZ or FNP (citric acid/ phosphoric acid) depending on the water quality.

NEW

Alkaline/OXIVARIO Sekumatic® FR + Sekumatic® OXIVARIO	Neutral/ORTHOVARIO Sekumatic® Neutraclean + Sekumatic® FR + Sekumatic® OXIVARIO
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Specially for
use in the OXIVARIO process and ORTHOVARIO process patented by Miele.

The combination of alkaline cleaners and hydrogen peroxides ensures that surgical instruments are cleaned in an ideal manner. During the OXIVARIO process a double cleaning phase is used. Oxygen radicals are formed in the process. This way, proteins can be completely removed.

Advantages of the process

- excellent cleaning performance even in difficult-to-reach places with powerful dirt dissolving solution
- a pre-cleaning step can be avoided if desired

Specially combination of alkaline cleaner and neutral cleaner for use with sensitive materials, for example, made of aluminum. Tested and released by Miele for the ORTHOVARIO procedure. Wide range of applications for almost all materials used in the medical sector.

Advantages of the process

- high cleaning performance through combination of products and process.
- gentle cleaning in the pH-neutral range if deionized water quality is used
- sensitive and insensitive materials can be cleaned at the same time



A reassuring feeling:
hygiene you can rely on.

Anesthesia

In the field of anesthesia, most of the materials used age quickly when subjected to heat, bases or acids. The wide and innovative Ecolab range offers the best process for every cleaning problem with a high level of material compatibility.

Alkaline cleaning

Sekumatic® FR

Neutral cleaning

Sekumatic® FRE
Sekumatic® NeutraClean

Chemo-thermal
preparation at 60° C
alkaline or pH-neutral
cleaning

Ideal for

all kinds of anesthesia material which can be reprocessed in a process with thermal or chemo-thermal disinfection

Advantages of the process

- efficient system which consists of alkaline and tenside-free cleaners and especially adapted neutralizing agents
- excellent cleaning performance even in difficult-to-reach places with powerful dirt dissolving solution

Ideal for

a wide range of anesthesia material

Advantages of the process

- high cleaning performance as a result of liquid (enzymatic) cleaner with an ideal tenside combination
- high efficiency at low temperatures (40 - 55° C)
- gentle cleaning in the pH-neutral range if deionized water quality is used
- high cleaning performance even in the case of blood stains
- sensitive and insensitive materials can be cleaned at the same time
- ideal cleaning performance even at places that are difficult to clean

Ideal for

thermolabile anesthesia instruments made of

- rubber
- latex
- silicone
- thermolabile theater over-shoes.

Advantages of the process

- safe disinfection with a high level of material compatibility at low temperatures (60° C)
- alkaline with Sekumatic® FR or Sekumatic® MultiClean
- pH-neutral with Sekumatic® FRE or Sekumatic® NeutraClean and Sekumatic® FD as disinfectant



A difficult challenge of cleaning
and disinfection.

Endoscopy

The cleaning and disinfection of endoscopes requires the highest standards from products and procedures. They must have a high material compatibility as well as excellent dissolving and cleaning properties. This is the only way of ensuring that even for difficult-to-reach places a perfect cleaning result can be achieved. Intensive research in collaboration with the endoscope manufacturer Olympus has made it possible for Ecolab to develop special products for this sector. These products meet and exceed all of the requirements.

Chemo-thermal
preparation at 60° C
pH-neutral cleaning

New developments

Ideal for

instruments made of thermolabile materials such as plastics, elastomers and rubbers, luting, adhesives. For example

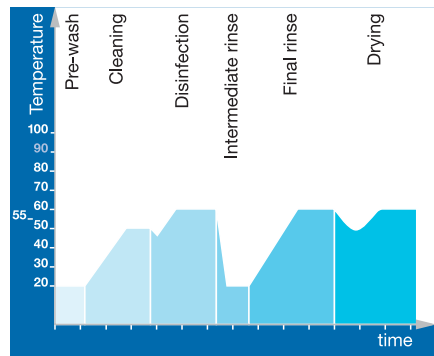
- flexible endoscopes

Advantages of the process

- products especially developed for flexible endoscopes for cleaning and disinfection: Olympus Cleaner and Olympus Disinfectant
- safe disinfection with high level of material compatibility at lower temperatures (55° C < 60° C)

Ecolab is also a pioneer in the field of endoscope preparation. The company develops state-of-the-art technology, for example for:

- Olympus ETD 2 process.
Disinfectant based on aldehydes
- Olympus ETD 3 process.
Disinfectant based on peracetic acid, as in the **PerOxyBalance** system, which combines thorough disinfection, material compatibility and application safety in a unique manner.



Source: Instrument working group (AKI)

Washer program
with chemo-thermal disinfection

For disinfection Ecolab offers
Sekumatic FDR or FD.



Perfect care,
perfect hygiene.

Elderly care/Bed and Container Washers

Safe and standardized cleaning is crucial in order to ensure high hygienic standards for patients. Sekumatic® products guarantee the highest possible safety for staff and patients combined with an excellent material compatibility.

For bed and container washers Ecolab has developed special products (thermal and chemo-thermal).

Elderly Care

Thermal disinfection
Sekumatic® FKS
Sekumatic® FRK

Ideal for

- bedpans
- urine bottles
- feeding bottles
- insert baskets with various utensils

Advantages of the process

- reduced wastewater contamination by thermal disinfection

Chemo-thermal disinfection
Sekumatic® FDR

Ideal for

- bedpans
- urine bottles
- feeding bottles
- insert baskets with various utensils

Advantages of the process

- also suitable for thermolabile materials
- safe disinfection with high level of material compatibility at low temperatures (60° C)

Bed & Container Washers

Chemo-thermal disinfection
Sekumatic® FDR
Sekumatic® NeutraClean
Sekumatic® FRE

Ideal for

- bedframes
- containers
- bedside tables
- trolleys

Advantages of the process

- suitable for fresh water systems with circulation in closed circuit (approx. 65° C)



Perfectly clean and hygienic
under laboratory conditions.

Laboratory

In the laboratory, many bacteria and viruses are combined in specimens and tests. This is a great cleaning challenge. Cleaning and disinfection must be extremely thorough to ensure that the research results are not affected. Disinfection must ensure chemical cleanliness combined with high precision. Secumatic® products guarantee this in combination with the right processes.

Alkaline cleaning
Sekumatic® FR

Ideal for

- laboratory glass
- plastic containers

Advantages of the process

- ideal dirt removal and dispersion
- efficient system which consists of alkaline and tenside-free cleaners and specially adapted neutralizing agents

Mild alkaline cleaning
Sekumatic® MultiClean

Ideal for

laboratory glass and other machine compatible materials.

Advantages of the process

- high cleaning performance through specially developed mild alkaline cleaners with phosphates
- high cleaning performance for various fields of application
- sensitive and insensitive materials can be cleaned at the same time
- depending on water quality, no neutralization required
- extremely high material resistance



Extremely clean instruments –
for extremely white teeth.

Dental

Cleaning and disinfection are crucial in a dental practice to ensure that the patient is completely safe. Manual cleaning procedures are used by the majority of dentists. Therefore, the products must not put the staff at risk either.

Ecolab offers the ideal solutions for manual and automated instrument cleaning and disinfection: the product series Sekusept® and Sekumatic®.

Alkaline cleaner Sekumatic® PR Sekumatic® FR	Mild alkaline cleaner Sekumatic® MultiClean
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Ideal for instruments to be rinsed which tolerate alkaline and acid media. For instruments with a variety of surfaces.

- dental instruments
- plastics, elastomer, rubber
- elastomer and rubber

Advantages of the process

- efficient system which consists of alkaline cleaners and specially adapted neutralizing agents. Alkaline cleaner available with or without tensides
- excellent cleaning performance even in difficult-to-reach places with powerful dirt dissolving solution

Ideal for instruments which are made of sensitive materials, such as

- color anodized surfaces
- plastics or plastic-coated metals
- plastic utensils

Advantages of the process

- high cleaning performance through especially developed formulation with phosphates
- cleaner in accordance with the recommendation for vCJD from RKI (Robert-Koch-Institut = German health office); pH >10 at 55° C.
- high cleaning performance irrespective of the degree of contamination
- sensitive and insensitive materials can be cleaned at the same time
- ideal cleaning performance even at places that are difficult to clean
- depending on water quality, no neutralization required
- high material compatibility



Active cleaning and highly effective disinfection.

Manual disinfection of instruments for your safety

Medical instruments are like an extension of the hand. They adopt important functions and penetrate into sensitive parts of the body. A high level of cleanliness is therefore crucial especially in this area. Ecolab has suitable products for all purposes to ensure the best cleaning/disinfection and safety during a manual cleaning process. Not only protecting the instruments but also the patient as well as the staff. Two examples are:

Sekusept® PLUS 	Sekusept® aktiv PerOxyBalance® 	New developments
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Ideal for disinfecting medical instruments made of: metal, plastic, glass, etc., suitable for ultrasonic application. Ideal for thermostable material, which can be disinfected but not sterilized, e.g. anesthesia accessories and flexible endoscopes.

Advantages of the process

- effective against: bacteria (also Tbc), fungi and enveloped viruses (incl. HBV, HIV, HCV) acc. to RKI recommendation 01/2004
- all conventional materials or metal compounds are gently disinfected and cleaned
- excellent cleaning performance even if instruments are heavily contaminated
- excellent material compatibility
- short contact time
- low application concentration

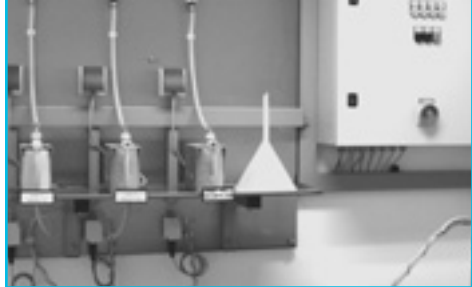
Ideal for simultaneously cleaning and disinfecting thermostable and thermolabile instruments. Highly suitable for disinfecting preliminary cleaning and final disinfection of flexible endoscopes and critical materials, such as silicone, polycarbonate, polysulphone and Plexiglass. Also suitable for ultrasonic baths.

Advantages of the process

- effective against: bacteria (also Tbc) and fungi, virucidal against enveloped viruses (incl. HIV, HBV, HCV) and virucidal acc. to RKI recommendation 01/2004
- fast availability of the instruments
- short residence times as a result of highly efficient formulation
- low application concentration
- use Sekusept aktiv test strips for checking the effectiveness

Being a research company, Ecolab works continuously on developing products and innovative technology further.

Our main focus is on finding the perfect cleaning products for special conditions and requirements in the target area.



Metering technology and
metering systems.

Technical service

ECOLAB continuously develops new products, procedures and services to ensure that the current hygiene standards and regulations are met. Only a perfect combination of product and service guarantees a high level of safety and profitability. Therefore, you need a partner who offers complete solution concepts and who you can rely on.

Planning	Technology	Safety	System management
<div><ul style="list-style-type: none">• inspection and consultation• analysis• conceptual design• projection</div>	<div><ul style="list-style-type: none">• development and manufacture• integrates metering systems• concentrate delivery technology• system and process optimization</div>	<div><ul style="list-style-type: none">• accurate metering• safety systems• safety equipment• check of function and profitability</div>	<div><ul style="list-style-type: none">• maintenance according to DIN 31051• modular service offers• documentation and monitoring</div>



All products at one glance.

Sekumatic® overview

The Sekumatic® product range offers ideal solutions for every area of mechanical disinfection and cleaning.

Product	Size	Code	Application area						
			Instruments thermostable	Instruments thermolabile	MIC	Theater over-shoes	Alu/anodizing	Bed and container washing systems	Bedpans
Sekumatic® PR powder cleaner, alkaline	8 kg	MPR8	•	•	•	•			
Sekumatic® FR liquid cleaner, alkaline, tenside-free	3 x 5 L 25 L 200 L	MFR3 MFR2 MFRF2	•	•	•	•			
Sekumatic® MultiClean liquid mild alkaline, tenside-free	3 x 5 L 20 L 200 L	MMC3 MMC20 MMCF2	•	•	•	•	•		
Sekumatic® NeutraClean liquid neutral cleaner	3 x 5 L 20 L 200 L	MNC3 MMC20 MNCF2	•	•	•	•	•	•	
Sekumatic® OXIVARIO cleaning activator for alkaline/oxidative cleaning	3 x 2.8 L	MOX28	•	•	•				
Sekumatic® FRE liquid cleaner based on enzymes, pH-neutral	3 x 5 L 30 L 200 L	MFRE3 MFREB MREF	•	•	•	•	•	•	
Sekumatic® FDR liquid cleaning and disinfecting agent, without aldehyde, pH-neutral	3 x 5 L 30 L 200 L	MFD3 MFDRB MDFRF		•	•	•	•	•	•
Sekumatic® FD liquid disinfecting agent, pH-neutral	3 x 5 L	MFD3		•	•	•			
Sekumatic® FNZ liquid neutralizing agent based on citric acid, tenside-free	3 x 5 L 30 L 200 L	MFNZ3 MFNZB MFNZF	•	•	•				
Sekumatic® FNP liquid neutralizing agent based on phosphoric acid, also for acid preliminary cleaning and basic cleaning	3 x 5 L 25 L 200 L	MFNP3 MFNPT MFNPF	•	•	•				
Sekumatic® FK liquid rinsing aid, acid	4 x 2 L 30 L	MFK4 MFKB	•					•	
Sekumatic® FKN liquid rinsing aid, neutral	30 L 200 L	MFKNB MFKNF					•	•	
Sekumatic® FKS liquid rinsing aid, acid, for bedpan disinfecting systems, lime-binding	5 L 200 L	MFKS MFKSF							•
Sekumatic® FRK liquid cleaning and rinsing agent, alkaline, softens	3 x 5 L	MFRK3							•
Sekumatic® IS instrument spray based on paraffin oil	12 x 250 ml	MIS	•						

Product glossary

	Definition	Properties	Suitable for
Sekumatic® PR powder cleaner	Cleaning granules for surgical instruments and other devices. <ul style="list-style-type: none">• Dosage: 3 g / L	<ul style="list-style-type: none">• removes stubborn stains thoroughly• to be metered dust-free, because of granules• alkaline	<ul style="list-style-type: none">• cleaning step of processes with thermal disinfection (93° C)• cleaning step of processes with chemo-thermal disinfection (60° C)
Sekumatic® OXIVARIO cleaning activator	Liquid cleaning booster detergent based on active oxygen, which is used in combination with special cleaners or cleaner combinations <ul style="list-style-type: none">• Dosage: 3,5 - 7 ml / L	<ul style="list-style-type: none">• booster for protein removing• excellent cleaning properties in combination with Sekumatic FR and/or Sekumatic Neutraclean• safety container	<ul style="list-style-type: none">• OXIVARIO process Miele• ORTHOVARIO process
Sekumatic® FR liquid cleaner	Liquid cleaner for surgical instruments and materials. <ul style="list-style-type: none">• Dosage: 3 - 5 ml / L	<ul style="list-style-type: none">• cleans instruments without leaving residue• tenside-free, thus foam-free cleaning• alkaline• excellent material compatibility	<ul style="list-style-type: none">• cleaning step of processes with thermal disinfection (93° C)• cleaning step of processes with chemo-thermal disinfection (60° C)
Sekumatic® MultiClean NEW liquid cleaner	Liquid mild-alkaline cleaner with especially developed formulation to provide extremely high material protection. <ul style="list-style-type: none">• Dosage: 5 - 8 ml / L	<ul style="list-style-type: none">• high material compatibility• no foam formation (tenside-free)• pH >10 at 55°C• especially for (color anodized) aluminum• wide range of applications	<ul style="list-style-type: none">• cleaning step of processes with thermal disinfection (93° C)• cleaning step of processes with chemo-thermal disinfection (60° C)
Sekumatic® NeutraClean NEW liquid cleaner	Liquid neutral cleaner, also suitable for the ORTHOVARIO procedure by Miele. <ul style="list-style-type: none">• Dosage: 5 - 7 ml / L	<ul style="list-style-type: none">• pH-neutral• specially developed formulation• tested and released by Miele• also for chemo-thermal processes	<ul style="list-style-type: none">• cleaning step of processes with thermal disinfection (93° C)• cleaning step of processes with chemo-thermal disinfection (60° C)
Sekumatic® FRE liquid cleaner	Liquid cleaner for surgical instruments, MIC instruments, plastic utensils as well as containers. <ul style="list-style-type: none">• Dosage: 4 - 6 ml / L	<ul style="list-style-type: none">• pH-neutral• based on enzymes• highly suitable for sensitive materials• effectively removes blood and proteins in the low temperature range (40° C - 60° C)• no neutralization necessary	<ul style="list-style-type: none">• cleaning step of processes with thermal disinfection (93° C)• cleaning step of processes with chemo-thermal disinfection (60° C)• cleaning step of bedframe and cart decontamination washer (fresh-water system)
Sekumatic® FDR liquid cleaning and disinfecting agent	This conventional 2in1 product guarantees an excellent cleaning performance and safe disinfection from 60° C upwards. Especially suitable for bed frames, containers and thermolabile materials. <ul style="list-style-type: none">• Dosage: 5 - 10 ml / L	<ul style="list-style-type: none">• contains the patented disinfecting agent Glucoprotamin• aldehyde-free• pH-neutral	<ul style="list-style-type: none">• chemo-thermal cleaning and disinfection step of chemo-thermal processes

	Definition	Properties	Suitable for
Sekumatic® FD liquid disinfecting agent	Liquid disinfecting agent for efficient chemo-thermal preparation. <ul style="list-style-type: none">• Dosage: 10 ml / L	<ul style="list-style-type: none">• high material compatibility• bactericidal• yeasticidal• virucidal• pH-neutral	<ul style="list-style-type: none">• disinfection step of chemo-thermal processes
Sekumatic® FNZ liquid neutralizing agent	Liquid neutralizing agent after alkaline cleaning. <ul style="list-style-type: none">• Dosage: 1 - 3 ml / L	<ul style="list-style-type: none">• based on citric acid• high environmental compatibility• tenside-free	<ul style="list-style-type: none">• thermal procedures• chemo-thermal processes
Sekumatic® FNP liquid neutralizing agent	Liquid neutralizing agent after alkaline cleaning. Also suitable for acid preliminary and basic cleaning of surgical instruments. <ul style="list-style-type: none">• Dosage: 1 - 3 ml / L	<ul style="list-style-type: none">• based on phosphoric acid• tenside-free• not suitable for non-ferrous metal, anodized aluminum	<ul style="list-style-type: none">• thermal procedures• chemo-thermal processes
Sekumatic® FK liquid rinsing aid	Liquid rinsing aid. Suitable for all metallic materials and glass. <ul style="list-style-type: none">• Dosage: 1 - 3 ml / L	<ul style="list-style-type: none">• acid pH value• corrosion protection	<ul style="list-style-type: none">• thermal procedures• use in decontamination units for bedframes and carts
Sekumatic® FKN liquid rinsing aid	Liquid rinsing aid for stainless drying. Suitable for all bed and container washing systems. <ul style="list-style-type: none">• Dosage: 1 - 3 ml / L	<ul style="list-style-type: none">• neutral pH value	<ul style="list-style-type: none">• thermal procedures• use in decontamination units for bedframes and carts
Sekumatic® FKS liquid rinsing aid	Lime-binding, liquid rinsing aid for bedpans, urine bottles, feeding bottles and insert baskets with various utensils. <ul style="list-style-type: none">• Dosage: 0,5 ml / L je 50 dH	<ul style="list-style-type: none">• prevents lime deposits on heating elements• makes sure that instruments are rinsed until they are spotless	<ul style="list-style-type: none">• thermal procedures
Sekumatic® FRK liquid cleaning agent and rinsing aid	Liquid cleaning agent and rinsing aid for bedpan washing systems. <ul style="list-style-type: none">• Dosage: 2 - 5 ml / L	<ul style="list-style-type: none">• alkaline	<ul style="list-style-type: none">• thermal procedures
Sekumatic® IS instrument spray	Instrument spray for systematic and effective care of joints and hinges.	<ul style="list-style-type: none">• based on paraffin oil• no influence on steam sterilization	