	Chemicals for cleaning and disinfection of telescopes, fiberscopes and endoscopic instruments	Actuality: January 16th 2012
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1. **manual** cleaning and disinfection / ultrasonic

The following instruments produced by KARL STORZ can **not** be **soaked or immersed** in a **liquid / chemical solution**:

- Telescopes with HAMOU eyepiece drive mechanism
- Magnifying lenses with drive mechanism
- IMPERATOR handpieces
 - For motors and their handles the appropriate manual provides detailed information
- Prismatic light deflectors


The following instruments produced by KARL STORZ can **not** be **placed** in an **ultrasonic** cleaning bath:

- Rigid optics
- Flexible optics
- Further instruments with optical components made out of glass


Please follow **chemical reagents manufacturers instructions** paying close **attention to proper dilution and recommended exposure times**. Regarding the microbiological effectiveness please ask the manufacturer. We approved the following cleaning- and disinfection solutions for use with KARL STORZ instruments regarding the material compatibility:

Note: For video endoscopes please refer to our separate list of approved chemicals.

Supplier	Trade name	Method / see legend
varios	NaOH (1 mol/l) max. 1 h caustic soda	2
Acto GmbH	Actosed Endo	1, 2, 3 A
Acto GmbH	Actosed Endo Terra	2
Acto GmbH	Actosed Enzym	1, 3
Acto GmbH	Actosed Forte	1, 2, 3
Acto GmbH	Actosed Forte N	2, 3
Acto GmbH	Actosed PA Powder	2
Advanced Sterilization Products	Cidex OPA	2
Advanced Sterilization Products	Cidezyme	1, 3
Advanced Sterilization Products	Enzol	1, 3
Advanced Sterilization Products	NU Cidex	2
Akadia - Chemie	Akadent	2
Alkapharm	Peralkan	2
Alpro Dental-Produkte GmbH	BIB forte	1, 2, 3
Anios	Aniosyme P.L.A.	1, 2, 3
Anios	Anioxyde 1000	2


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Anios	Octanius basique	1, 2
Anios	Steranios 2%	2
Antiseptica chem. pharm. Prod. GmbH	Descogen I	1, 2
Antiseptica chem.. pharm. Prod. GmbH	Kombi Instru.-Desinfektion N	1, 2
Antiseptica chem. pharm Prod. GmbH	Triacid N	1, 2, 3 A
B. Braun Medical AG	Helipur H plus N	1, 2, 3
B. Braun Medical AG	Helizyme	1
B. Braun Medical AG	Helix ultra	2
B. Braun Medical AG	Stabimed	1, 2, 3
Bandelin electronic GmbH	Stammopur DR	1, 2, 3
Bandelin electronic GmbH	Stammopur DR 8	1, 2, 3
Bandelin electronic GmbH	Stammopur GR	1, 3
Bandelin electronic GmbH	Stammopur R	1, 3
Bochemie a.s.	Chirosan	2
Bochemie a.s.	Chirosan Plus	1, 2
Bochemie a.s.	Discleen enzyme	1, 3
Bochemie a.s.	Discleen Endo AF	2
Bochemie a.s.	Discleen Endo PAA	1, 2
Bochemie a.s.	Discleen Extra	1, 2
Bode Chemie GmbH	Bodedex forte	1, 3
Bode Chemie GmbH	Bomix plus	1, 2
Bode Chemie GmbH	Dismoclean twin basic / enzyme	1 A
Bode Chemie GmbH	Korsolex med AF	2, 3 A
Bode Chemie GmbH	Korsolex basic	2, 3
Bode Chemie GmbH	Korsolex extra	2
Bode Chemie GmbH	Korsolex PAA	2
Borer Chemie AG	Deconex 36 Intensiv	1, 3
Borer Chemie AG	Deconex 50 FF	2
Borer Chemie AG	Deconex 53 Instrument	1, 2, 3 A
Borer Chemie AG	Deconex 53 Plus	2
Borer Chemie AG	Deconex HLD PA / PA20	2
Borer Chemie AG	Deconex Power Zyme	1, 3
Borer Chemie AG	Deconex 53 INSTRUMENT	2, 3
Borer Chemie AG	Deconex 54 Sporcide	2
Deppe, Laboratorium Dr. rer. nat.	EndoStar	2
Deppe, Laboratorium Dr. rer. nat.	InstruPlus	1, 2, 3
Deppe, Laboratorium Dr.	InstruPlus N	1, 2, 3


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rer. nat.		
Deppe, Laboratorium Dr. rer. nat.	InstruStar	1, 2, 3 A
Deppe, Laboratorium Dr. rer. nat.	InstruZym	1, 3

Detrox	Detro Forte	2 A
Detrox	Detro Plus	2 A
Detrox	Detro Plus OPA	2 A
Detrox	Detro OPA	2 A
DuPont	PeraSafe	2
DuPont	Rely+On Perasafe	2
Ecolab GmbH & Co. OHG	Sekusept aktiv	1, 2
Ecolab GmbH & Co. OHG	Sekusept easy	2
Ecolab GmbH & Co. OHG	Sekusept extra N	1, 2, 3
Ecolab GmbH & Co. OHG	Sekusept forte	2, 3
Ecolab GmbH & Co. OHG	Sekusept MultiEnzyme	1, 3
Ecolab GmbH & Co. OHG	Sekusept Plus	1, 2, 3
Ecolab GmbH & Co. OHG	Sekusept Pulver Classic	1, 2, 3
Ecolab GmbH & Co. OHG	SekuZyme	1
Esteer Pharma GmbH	Ultraseptin Aktiv	1, 2, 3
Esteer Pharma GmbH	Ultraseptin Classic	1, 2, 3
Esteer Pharma GmbH	Ultradessmit AF	1, 2, 3
Esteer Pharma GmbH	Ultraseptin PAA	1, 2
Fresenius AG	Afid	1, 2
Fresenius AG	Afid plus	1, 2
Fresenius AG	Sporcid FF	1, 2
Heck dental GmbH	Ventisept M Plus Neu	1, 2
Helvemed	Instrument Forte SVP	1, 2, 3
HIMED GmbH	EndoSeptol FF	2
HIMED GmbH	InstruCid AF	2, 3 A
HOLIFA Polska Sp. zo. o	Polsept Plus	1, 2
Indeba Industria E Comercio LTDA	Letahdeido	2
Laboratorios INIBSA	INSTRUNET F.A. CONCEN.	1, 2, 3
Jose Collado S.A.	Darodor 4000 Liquido	1
Jose Collado S.A.	Darodor 9000	2
Jose Collado S.A.	Darodor Sinaldehyd 2000	2
Lonza AG	Formulierung ID - 50	2
MediChem International	PERASCOPE 3 DAY Sterilant	2

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Merz Hygiene GmbH	Mucadont-Zymaktiv	1, 3	
Merz Hygiene GmbH	Edisonite Super	1, 3	
Merz Hygiene GmbH	Mucadont-IS	2, 3	
Merz Hygiene GmbH	Mucocit-T new	1, 2, 3	
METASYS Medizintechnik GmbH	ID 50	2	
METASYS Medizintechnik GmbH	Green & Clean ID	1, 2, 3	A
Minntech International	Adaspor	2	
Necmkimya	BIORAD GDA 2 %	2	A
Necmkimya	BIORAD Rayd Guanide	1, 2, 3	A
Nova-Praxis-Hygiene	NOVA Biguades AF	1, 2, 3	
Orochemie	A 20	1, 3	A
Promagent AB	Wavacide	2	
Rheosol Wachendorff- Chemie GmbH	RHEOSEPT-ID plus	1, 2, 3	
Rheosol Wachendorff- Chemie GmbH	RHEOSEP-ID aktiv Granulat	1, 2, 3	
Schumacher, Dr. GmbH	Descoton extra	1, 2	
Schumacher, Dr. GmbH	Descoton 2% GDA	2	
Schumacher, Dr. GmbH	Descoton forte	2	
Schumacher, Dr. GmbH	Multizyme forte	1, 3	
Schumacher, Dr. GmbH	Perfektan Endo	2	
Schumacher, Dr. GmbH	Perfektan TB	1, 2, 3	A
Schumacher, Dr. GmbH	Plurazyme	1, 3	
Schülke & Mayr GmbH	Gigasept Med forte	1, 2	
Schülke & Mayr GmbH	Gigasept AF forte	1, 2	
Schülke & Mayr GmbH	Gigasept FF (neu)	1, 2	
Schülke & Mayr GmbH	Gigasept Instru AF	1, 2, 3	A
Schülke & Mayr GmbH	Gigasept PAA concentrate	2	
Schülke & Mayr GmbH	Gigazyme	1, 3	
Schülke & Mayr GmbH	Lysetol V	2	
SIRMAXO CHEMICALS PVT. LTD.	Sanizyme	1, 3	
SIRMAXO CHEMICALS PVT. LTD.	Sanidex OPA	2	
SIRMAXO CHEMICALS PVT. LTD.	Saniscope	1	
STERIS Corporation	EnzyCare 2	1, 3	
STERIS Corporation	Resert TM HLD XL	2	
Weigert, Dr. GmbH & Co.	neodisher LM 2	1	
Weigert, Dr. GmbH & Co.	neodisher Septo MED	1, 2, 3	

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Weigert, Dr. GmbH & Co.	neodisher mediclean	1
Weigert, Dr. GmbH & Co.	neodisher mediclean forte	1, 3

Weigert, Dr. GmbH & Co.	neodisher medizym	1, 3
Weigert, Dr. GmbH & Co.	neodisher SeptoClean	1 A
Weigert, Dr. GmbH & Co.	neodisher SeptoPreClean	1, 2
Whiteley Industries PTY.Ltd	Aidal Plus	2
Whiteley Industries PTY.Ltd	Matrix	1

Legend:


1 = cleaner 2 = disinfection agent 3 = suitable for ultrasonic
A = not suitable for fiberscopes according to manufacturers' instructions

For others as mentioned above KARL STORZ gives no guarantee in case of any damage.



Warning:

The use of *NaOH* (caustic soda) can lead to alteration on surfaces of aluminum (also coated), polymers and soldering joints and may reduce life time of the instruments. **Only** the **shaft** of fiberscopes can be soaked in NaOH, the **handle / head** of the instrument **must not** be immersed.

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2. Cleaning and disinfection in washer-disinfectors

The following instruments produced by KARL STORZ can **not** be **processed in a cleaning and disinfection machine**:

- Telescopes with HAMOU eyepiece drive mechanism
- Magnifying lenses with drive mechanism
- IMPERATOR handpieces
- For motors and their handles the appropriate manual provides detailed information
- Standard-, tungsten carbide- and diamond burrs
- Prismatic light deflectors


The selection of method for cleaning and disinfection of optics should be chosen after consultations with the manufacturer of the machine and the supplier of the chemical reagents. Only special processes are allowed to use which have been validated for this purpose. Regarding the microbiological effectiveness please ask the manufacturer. The thermal disinfection is preferred. We approved the following cleaning- and disinfection solutions for use with KARL STORZ instruments in washer-disinfectors regarding the material compatibility:

Supplier	Trade name	method / see legend
BHT Hygiene Technik GmbH	BHT Scope Cleaner	1
BHT Hygiene Technik GmbH	BHT Scope Desinfectant	2
Bode Chemie GmbH	Dismoclean 24 Vario	1
Bode Chemie GmbH	Dismoclean 28 Alka one	1
Bode Chemie GmbH	Dismoclean twin basic / enzyme	1
Bode Chemie GmbH	Korsolex-Endo-Cleaner	1
Bode Chemie GmbH	Korsolex-Endo-Disinfectant	2
Borer Chemie AG	Deconex 23 Neutrazym	1
Borer Chemie AG	Deconex 28 Alka One	1
Borer Chemie AG	Deconex 28 Alka One +	1
Borer Chemie AG	Deconex Alkamild	1
Borer Chemie AG	Deconex Endomatic	2
Borer Chemie	Deconex Power Zyme	1
Borer Chemie AG	Deconex twin system	1
B. Braun Medical AG	Helimatic Cleaner alkaline	1
B. Braun Medical AG	Helimatic Cleaner enzymatic	1
Deppe, Laboratorium Dr. rer. Nat.	Endomat Plus	1, 2
Deppe, Laboratorium Dr. rer. Nat.	Endomat Plus Viruguard	2
Deppe, Laboratorium Dr. rer. Nat.	Labomat E	1
DiverseyLever	Sumatox E	1
Ecolab GmbH & Co. OHG	Sekumatic FD	2

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Ecolab GmbH & Co. OHG	Sekumatic FR	1
Ecolab GmbH & Co. OHG	Sekumatic FRE	1
Ecolab GmbH & Co. OHG	Sekumatic NeutraClean	1
Ecolab GmbH & Co. OHG	Sekumatic MultiClean	1
IMS	Adapspor Ready to Use	2
Medisafe UK, Ltd.	3E-Zyme / HS-Zyme	1
Merz Consumer Care GmbH	Mucapur AF	1
Merz Consumer Care GmbH	Mucapur ED	2
Merz Consumer Care GmbH	Mucapur ER	1
Merz Consumer Care GmbH	Mucapur ED Plus	1
Merz Consumer Care GmbH	Mucapur ER Plus	2
Ruhof Corporation	Endozime AW	1

Schumacher, Dr. GmbH	Thermoton Endo	2
Schumacher, Dr. GmbH	Thermoton NR	1
Schumacher, Dr. GmbH	Thermoton Desinfektant	2
Schülke & Mayr GmbH	Thermosept alka clean forte	1
Schülke & Mayr GmbH	Thermosept DK	2
Schülke & Mayr GmbH	Thermosept ED	2
Schülke & Mayr GmbH	Thermosept ER	1
Schülke & Mayr GmbH	Thermosept OXY	1
Schülke & Mayr GmbH	Thermosept PAA	2
Schülke & Mayr GmbH	Thermosept RKF forte	1
Schülke & Mayr GmbH	Thermosept RKN-zym	1
Steris	Instru-Klenz	1
Weigert, Dr. GmbH & Co.	neodisher Endo Sept GA	2
Weigert, Dr. GmbH & Co.	neodisher DuoClean	1
Weigert, Dr. GmbH & Co.	neodisher FA	1
Weigert, Dr. GmbH & Co.	neodisher FA forte	1
Weigert, Dr. GmbH & Co.	neodisher mediclean	1
Weigert, Dr. GmbH & Co.	neodisher mediclean forte	1
Weigert, Dr. GmbH & Co.	neodisher medizym	1
Weigert, Dr. GmbH & Co.	Neodisher oxivario	1
Weigert, Dr. GmbH & Co.	neodisher SeptoClean	1 A
Weigert, Dr. GmbH & Co.	neodisher Septo DA	1, 2
Weigert, Dr. GmbH & Co.	neodisher Septo DN	2

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Legend:

1 = cleaner 2 = disinfection agent

For others as mentioned above KARL STORZ gives no guarantee in case of any damage.