



Company GmbH

High Tech Disinfection and Cleaning



Products made in Switzerland

HMC NF



# HMC NF



HMC NF is the only one product specifically developed and fitted to satisfy all the medical world requirements in surgical and endoscopy department for manual and automatic use. Based on peracetic acid HMC NF is specifically intended for high-level disinfection (chemical cold sterilization) of medical devices such as endoscopes, bronchoscopes, laparoscopes, respiratory tubes, and anesthesia equipment HMC NF represents a safe system for producing sterilizing-disinfecting solutions giving full assurance to all personnel and patient safety.

HMC NF is “cost save” in terms of infrastructure, staff health and device maintenance and repair.

The proven efficacy of HMC NF product against bacteria, viruses, fungi and spores even at low concentration avoid the cross-contamination.

Only 10 min contact time allow the High Level Disinfection (Cold-Sterilization) and the full safety for operators and patients.

Its high material compatibility allow to be used with the most known surgical instruments and endoscopes.

**PRESENTATION:** White powder

**PACKAGING:** 1 Kg jar

**FEATURES:**

Cost Effective and Resource Friendly

Use 20 gr/Lt or 16,2 gr/Lt

HMC NF needs only 15 gr/Lt

15 gr = 1 Liter

1.000 gr = more than 66 Liters

(+32% or + 7% with the most known competitors' products)



## GENERAL DESCRIPTION

HMC NF is a water soluble compound powder that allows, simply dissolving in tap water, an effective biocidal solution. The powder form means to save storage space and avoid the transport of liquid.

## FORMULA

The HMC NF particular formula develop peracetyl and peracetic ions simply dissolving in tap water. The combination of pH, almost neutral, the peracetic acid biocidal properties and the superior material compatibility allows repeated rapid decontamination and high level disinfection of heat labile, reusable medical devices and instruments. All our compound powder products are Boron free.

## HOW IT WORKS

The PerAcetic Acid developed in simple tap water simply dissolving the HMC NF powder is a potent antimicrobial agent, being rapidly active at low concentrations



against a wide spectrum of microorganism. It is sporicidal even at low temperatures and it remains effective also in the presence of organic matter.

The PerAcetic Acid has high germicidal efficiency and sterilizing capability and his degradation residuals are not dangerous for environment or toxic for human health.

## EFFICACY

HMC NF product has independent tests proven rapid sterilant properties across a wide spectrum of micro-organisms. Its efficacy against viruses (including enveloped viruses such as HIV, Hepatitis B- and C-Virus, Ebola-Virus, Influenzavirus type H1N1 and other Influenzavirus Types), bacteria (P. aeruginosa), Mycobacteria (M. Terrae), fungi (C. albicans) and spores (B. subtilis) and the almost neutral pH makes HMC NF ideal for endoscope and medical device decontamination and disinfection. With HMC NF is possible the use in Automated Endoscope Reprocessing machine. Only 10 minutes contact time is needed for sterilization both manually or with washing machine. HMC NF has been independently evaluated by German laboratories following the EU rules. The obtained results prove HMC NF has rapid efficacy and suitability for endoscope reprocessing, surgical and dental instruments disinfection.

## SAFETY

For operators and patients: HMC NF has exceptional user safety and a fully bio-degradable formulation.

With HMC NF no needs application of Occupational Exposure Standards or Maximum Exposure Limits. No special ventilation systems or monitoring of staff is necessary, saving costs and improving working conditions.

For the environment: HMC NF is Boron Free.

## COMPATIBILITY

HMC NF has the widest compatibility with surgery instruments, with flexible and stainless steel rigid endoscopes.

## CERTIFICATION

HMC NF is registered in accordance with requirements of the Medical Devices Directive, 93/42/EEC as Medical Device.

## LIFE OF SOLUTION

Full working day from activation, or maximum 20 cycles in Automated Endoscope Reprocessor, or until indicated by test-strip. (Merckoquant 1.17922.0001)

## PRODUCT SHELF-LIFE

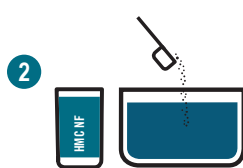
HMC NF's shelf-life is 24 months from date of manufacture.

## Easy to prepare



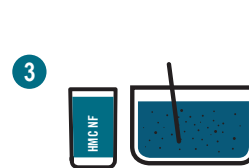
### Step 1

Fill a container with lukewarm tap water (30-35°C) to the required volume.



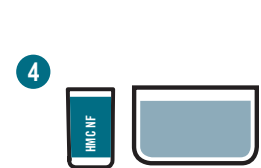
### Step 2

Add powder to tap water direct from container or required amount using graduated measuring spoon provided.



### Step 3

Stir until the powder dissolves to form a clear solution. (10-15 minutes). To test the solution activity the operator can use Merck test strip (Merckoquant 1.17922.0001) or equivalent test strip.



### Step 4

Immerse the instruments in the solution for no more than 10-15 minutes and rinse with minimum tap water.



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Your local distributor:

PRODUCT (Active Principle)		powder PerAcetic Acid HMC HMC Enzy HMC NF	Glutaraldehyde (2% ready to use)	Ortho-phthalaldehyde (0,55%)	Alcohol	Chlorine Dioxide	Superoxidised water (HOCl/Cl <sub>2</sub> )
Action for activity	Bactericidal	Rapid	Good	Good	Good	Good	Good
	Tubercicidal	Good	Moderate	Good	Good	Good	Good
	Virucidal (Enveloped Virus)	Good	Good	Good	Good	Good	Good
	Fungicidal	Rapid	Good	Good	Good	Good	Good
	Sterilizing action Sporicidal activity	Rapid	Poor	Poor	None	Good	Good
Cleaning and break up action		Yes	No	No	No	No	No
Ready solution		Not dangerous	Very dangerous	Dangerous	Dangerous	Dangerous	Not Dangerous
Operator protection		No	Obbligatory	Yes	Yes	Yes	No
Solution disposal		Drainage pipe (wash basin)	Special waste	Special waste	Special waste	Special waste	Drainage pipe
Ventilation		No	Yes	Yes	Yes	Yes	No

Micro-organism	Strain	Protocol	Contact Time	Log Reduction
<b>S. aureus</b>		Qualitative Suspension Test	5 min	
<b>E. hirae</b>		Qualitative Suspension Test	5 min	
<b>E. coli</b>		Qualitative Suspension Test	5 min	
<b>P. mirabilis</b>		Qualitative Suspension Test	5 min	
<b>C. albicans</b>		Qualitative Suspension Test	5 min	
<b>S. aureus</b>		EN 13727	5 min – Dirty	>5
<b>E. hirae</b>		EN 13727	5 min – Dirty	>6
<b>P. aeruginosa</b>		EN 13727	5 min – Dirty	>5
<b>C. albicans</b>		EN 13624	5 min – Dirty	>4
<b>S. aureus</b>		EN 13727	5 min – Clean	>5
<b>E. hirae</b>		EN 13727	5 min – Clean	>6
<b>P. aeruginosa</b>		EN 13727	5 min – Clean	>6
<b>C. albicans</b>		EN 13624	5 min – Clean	>4
<b>S. aureus</b>		EN 14561	5 min – Dirty	>5
<b>P. aeruginosa</b>		EN 14561	5 min – Dirty	>6
<b>E. hirae</b>		EN 14561	5 min – Dirty	>6
<b>C. albicans</b>		EN 14562	5 min – Dirty	>4
<b>S. aureus</b>		EN 14561	5 min – Clean	>5
<b>E. hirae</b>		EN 14561	5 min – Clean	>6
<b>P. aeruginosa</b>		EN 14561	5 min – Clean	>6
<b>C. albicans</b>		EN 14562	5 min – Clean	>4
<b>M. Terrae</b>		EN 14348	10 min – Dirty/Clean	>4
<b>B. Subtilis</b>	ATCC12826	EN 13704	30 min	6
<b>B. Subtilis</b>	ATCC6633	EN 13704	10 min	>3
<b>Bovine Viral Diarrhoea Virus BVDV</b>		EN 14476	5 min	5
<b>M. Terrae</b>	ATCC15755	EN 14348	5 min	>6
<b>Adenovirus Type 5</b>	Adenoid 75, ATCC VR 5	EN 14476	5 min	>4
<b>Vaccinia Virus</b>	Strain Elstree	EN 14476	2 min	>4