

# Surface disinfection

## PLIWA LEMON FRESH AF

Ready to use, alcoholic solution for surface disinfection



VAH certificate  
of efficacy

### Product description

PLIWA Lemon Fresh AF is a ready to use, alcoholic solution for surface disinfection. The product must not be diluted by the user. It contains quarternary ammonium compounds and is free of aldehydes and phenols. After the contact time has elapsed, treated surfaces dry quickly. PLIWA Lemon Fresh AF can be applied for wipe as well as spray disinfection.

### Areas of application

PLIWA Lemon Fresh AF is suitable for rapid disinfection of alcohol-resistant surfaces of non-invasive, non-critical medical devices, medical equipment as well as all kinds of wipeable surfaces.

Suitable for:

- Surfaces close to patients, dental chairs, examination couches, operating tables
- Areas in medical and dental practices which are used for medical purposes
- Rapid disinfection between surgeries and procedures
- Clothes like OR shoes, OR aprons, X-ray aprons
- Alcohol-resistant surfaces of medical equipment
- Materials according to material compatibility (see page 2)

Not tested for food and veterinary areas. Not suitable for disinfection of skin and hands. Not suitable for disinfection of invasive medical devices. Do not use for disinfection of semi-critical and critical medical devices.

#### Further information on cleaning and disinfection of surfaces and medical devices:

Recommendation of the Commission for Hospital Hygiene and Infection Prevention at the Robert-Koch Institute (RKI) entitled „Hygiene Requirements for Cleaning and Disinfecting Surfaces“. Available online.

### Personal protection

Put on protective gloves, face mask and safety glasses prior to each disinfection. Provide adequate ventilation. Keep away from unprotected individuals. Avoid contact with eyes. Avoid breathing vapours. Keep away from sources of ignition.

### Application

In case the surfaces are contaminated with organic material (e.g. blood, secretions etc.): Remove the visible contamination with a disposable cloth soaked with disinfectant and discard it. Subsequently, disinfect surface. Please note that the disinfection does not substitute cleaning of the surface.

**Wipe disinfection:** Apply the ready to use solution to a clean, dry single use cloth or directly onto the surface. Wipe the surface applying mild pressure (wet wiping) and keep the surface completely moist during contact time.

**Spray disinfection:** Spray disinfection may only be applied for inaccessible, twisted surfaces. For spray disinfection, apply the product undiluted directly onto the surface. Ensure that the surface is completely moist and keep moist during contact time.

**After the contact time has elapsed:** Remove residues with a clean, dry, undyed disposable cloth or allow to dry.

### Special advice

**Read safety datasheet and technical datasheet before use.**

**Do not dilute the product. Do not mix with additives or other products.**

**For professional use only.**

**Do not use after expiry date.**

**Electronic devices must be disconnected from their power supply before disinfection. Ensure that the disinfectant does not seep into electronic devices.**



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## Efficacy spectrum

Efficacy (ready to use product, at room temperature)	Standard	Contact time
<b>Bacteria</b>		
<i>S. aureus</i> , <i>E. hirae</i> , <i>P. aeruginosa</i> , <i>E. coli</i> , MRSA (dirty conditions)	EN 13727	30 s
<i>S. aureus</i> , <i>E. hirae</i> , <i>P. aeruginosa</i> , <i>E. coli</i> (dirty conditions*)	EN 13697	5 min
<i>S. aureus</i> , <i>E. hirae</i> , <i>P. aeruginosa</i> (dirty conditions)	EN 16615	1 min
<i>S. aureus</i> , <i>E. hirae</i> , <i>P. aeruginosa</i> (dirty conditions)	Standard methods VAH*2	5 min
<b>Mycobacteria/TB</b>		
<i>M. terrae</i> , <i>M. avium</i> (dirty conditions)	EN 14348	1 min
<b>Yeasts</b>		
<i>C. albicans</i> (dirty conditions)	EN 13624	30 sec
<i>C. albicans</i> (dirty conditions)	EN 16615	1 min
<i>C. albicans</i> (dirty conditions*)	EN 13697	5 min
<i>C. albicans</i> (dirty conditions)	Standard methods VAH*2	5 min
<b>Viruses</b>		
<b>Enveloped viruses</b>		
MVA Modified Vacciniavirus Ankara (dirty conditions)	EN 14476	30 sec
BVDV (dirty conditions)		
<b>Non-enveloped viruses</b>		
Adenovirus Typ 5 (dirty conditions)	EN 14476	5 min
Humaner Rotavirus (clean conditions)		5 min
MNV murine Norovirus (dirty conditions)		5 min
MNV murines Norovirus (dirty conditions)	EN 16777	5 min
Adenovirus Typ 5 (dirty conditions)		5 min

\*dirty conditions according to EN 13697:2015-06 Quantitative non-porous surface test for the evaluation of bactericidal and/or fungicidal activity of chemical disinfectants used in food, industrial, domestic and institutional areas.

\*2 standard methods of the VAH (Association of Applied Hygiene) for surface disinfection by wiping (quantitative carrier test with mechanical action, practical conditions)

## Material compatibility

Metal	Aluminium, stainless steel, copper, brass
Plastics	PSU, PVC, silicone
Rubber	EPDM, natural rubber
Advice	Upon compliance to the intended use and the indicated contact time, no material damage is to be expected with the above mentioned materials. Avoid contact of longer than 48 hours with linoleum flooring. Avoid contact with acrylates. May cause stress corrosion of acrylic glass. Test material compatibility for polyacrylates, polycarbonates as well as not mentioned materials in an inconspicuous place before use.

## Composition

100 g ready to use solution contain:

33.66 g ethanol, 15.84 g 2-propanol, 0.05 g didecyldimethylammonium chloride 70%, parfum\*3 (not applicable for parfum-free)

## Chemical/physical parameters

appearance:	clear and colourless
pH value:	5.0 – 6.0
density (20°C):	0.900 – 0.920
flash point (EN 22719)	22.75 + 0.5 °C

## Storage conditions

Keep container tightly closed and in a well-ventilated place. Keep cool. Protect from sunlight. Keep away from sources of ignition. No smoking. Take precautionary measures against static discharge. Store in original container. Store in an upright position.

See safety datasheet for further advice.

## Labelling according to Regulation (EC) No 1272/2008 (CLP)

For information on labeling according to Regulation (EC) No 1272/2008 (CLP) see safety datasheet and label.



## Identification, certificates

Medical device class II a / MD 0108

CE 0123

Certificate of efficacy issued by VAH (Association of Applied Hygiene)

## Expert opinions and further information

PLIWA Lemon Fresh AF has been assessed by independent laboratories. The expert opinions can be provided upon request.

To exclude adverse effects on the skin upon unintentional contact with the product, a dermatologically survey was carried out by the company Dermatest.

For further details concerning expert opinions, informations on products and answers to specific questions contact us by e-mail (info@pliwa.de) or telephone (0049 5661 73170).

PLIWA Hygiene GmbH has a manufacturing authorisation as per §13 German medicines act as well as a GMP– and an EN ISO 13485 certificate.

Please report serious incidents related to this product to the manufacturer and the respective authorities.

\*3 Please note that parfum may cause allergies.



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## Related medical devices manufactured with PLIWA Lemon Fresh AF

Quick & Clean S-Wipes (ready to use, alcohol-soaked disinfection wipes for application with dispenser bucket)  
70 wipes / 90 wipes

## Informations for order

Single package	Item No.
250 ml round bottle with spray head	10-410 (Lemon), 10-510 (without parfum), 10-610 (Vanilla), 10-710 (Peach blossom), 10-807 (Green apple)
1 Liter cone bottle with spray head	10-411 (Lemon), 10-511 (without parfum), 10-611 (Vanilla), 10-711 (Peach blossom), 10-911 (Coconut), 10-804 (Green apple)
1 Liter cylinder bottle with spout* <sup>4</sup>	10-411-1 (Lemon), 10-511-1 (without parfum), 10-611-1 (Vanilla), 10-711-1 (Peach blossom), 10-911-1 (Coconut), 10-804-1 (Green apple)
5 Liter canister	10-412 (Lemon), 10-512 (without parfum), 10-612 (Vanilla), 10-712 (Peach blossom), 10-805 (Green apple)
10 Liter canister	10-413 (Lemon), 10-513 (without parfum), 10-613 (Vanilla), 10-713 (Peach blossom), 10-913 (Coconut), 10-806 (Green apple)
Application aids for canisters	
Dosing pump	93933
Drainage tap	93916

\*<sup>4</sup> The spout facilitates a more precise pouring of the product.

