

# Product information

## Orotol® plus disinfection of suction systems



### Orotol® plus at a glance

- Concentrate for simultaneous disinfection, deodorisation, cleaning and care of dental suction systems, amalgam separators, and spittoons.
- Broad spectrum of activity: bactericidal, yeasticidal, with limited virucidal activity (enveloped viruses, including HBV, HCV, HIV as well as non-enveloped viruses, such as adenoviruses and noroviruses).
- Tested in accordance with current VAH methods and European standards.
- VAH list.
- The solution for contaminated suction systems – guarantees reliable protection against infection.
- Application concentration of only 2%.
- Extraordinary cleaning power, removes even the most stubborn deposits, even from areas that are difficult to access.
- Aldehyde-free – its mechanism of action is based on quaternary ammonium cations.

### Properties

Orotol® plus from Dürr System Hygiene is a highly effective concentrate for the simultaneous disinfection, deodorisation, cleaning and care of all dental suction systems, amalgam separators, and spittoons. Select disinfectant and cleaning components achieve intensive care without foam, are gentle on materials and safe for the environment. Daily application of Orotol® plus ensures the technically and hygienically sound operation of dental suction systems, even with high levels of microbial contamination and debris (e.g. saliva, amalgam and dentine dust, blood, etc).

### Product composition

Orotol® plus is based on a combination of quaternary ammonium cations, alkaline cleaning components, complexing agents, special antifoaming agents, and excipients in aqueous solution. 100 g Orotol® plus contain: 4.4 g dimethyldioctylammonium chloride, 0.6 g benzyldimethyldodecylammonium chloride.

### Microbiological efficacy

Orotol® plus is bactericidal<sup>1)</sup>, yeasticidal<sup>1)</sup>, with limited virucidal activity (enveloped viruses, including HBV, HCV, HIV<sup>2), 3)</sup> as well as non-enveloped viruses, such as adenoviruses<sup>4)</sup> and noroviruses<sup>1)</sup>). VAH list. Tested in accordance with EN 13727, EN 13624, EN 14476, EN 14561, EN 14562, EN 16615.

### Directions for use

Orotol® plus is used at a 2% concentration. Prepare by filling 20 mL Orotol® plus to a volume of 1 L with cold water and aspirate through the system using the OroCup. Add at least 250 mL solution to the spittoon also. Rinse disinfected system thoroughly with water after the exposure time has elapsed. We recommend cleaning and disinfecting the suction system with Orotol® plus once or twice a day, depending on the burden. If only one application is needed, then apply Orotol® plus exclusively after the final treatment of the day.

# Product information

## Orotol<sup>®</sup> plus disinfection of suction systems

### Environmental impact

Orotol<sup>®</sup> plus is readily biodegradable in accordance with OECD Guideline 301 D. The packaging is made of polyethylene and polypropylene and can thus be recycled or incinerated. For recycling, flush bottles with water. The safety data sheet includes disposal instructions for the concentrate.

### Physical data

#### Concentrate:

Appearance: clear, yellow liquid

Density:  $D = 1.09 \pm 0.02 \text{ g/cm}^3$  (20°C)

pH:  $12.8 \pm 0.3$

#### Working solution (2%):

Appearance: colourless solution

pH:  $10.5 \pm 0.5$

### Shelf life

Concentrate: 3 years

Working solution (2%): 1 day

### Container size

2.5-L bottle

### Storage

Store product at between 5°C and room temperature.

### Accessories

OroCup

### General instructions

After surgical procedures, aspirate with cold water in spurts.

Changes in product colour/odour may occur, especially when stored in sunlight. However, these changes in colour and/or odour have no impact on the disinfection efficacy of the product.

| Application  | Concentration | Time   |
|--|---------------|--------|
| Suction system disinfection (tested in accordance with VAH area/instruments) <sup>1)</sup> | 2%            | 5 min  |
| Bacteria <sup>1)</sup> and yeasts <sup>1)</sup>  | 2%            | 5 min  |
| Enveloped viruses, including HBV, HCV, HIV <sup>2), 3)</sup>                               | 2%            | 30 min |
| Adenoviruses <sup>4)</sup>   | 2%            | 15 min |
| Noroviruses <sup>1)</sup>  | 2%            | 30 min |

1) Testing at high burden (VAH, EN 13727, EN 13624, EN 14561, EN 14562, EN 14476).

2) Testing with and without burden in accordance with DVV/RKI guidelines.

3) In accordance with RKI statement (Federal Health Bulletin 60, 353-363, 2017).

4) Testing at low burden. High burden: 2%/2 h, 4%/15 min.

### Hazard warnings

Orotol<sup>®</sup> plus is classified and labelled in accordance with the CLP

Regulation: see product label and safety data sheet.

### Independent expert opinions – in-house investigations

The expert opinions are available upon request.

**CE 0124**

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