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Dr. Arabin GmbH & Co. KG
Frau Prof. Dr. med. Dr. med. h.c. Birgit Arabin
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Confirmation of the material compatibility of PERFEKTAN® ACTIVE with different silicone pessaries

Dear Mrs. Prof. Dr. med. Dr. med. h.c. Arabin,

Thank you for your inquiry and the resulting question whether **PERFEKTAN® ACTIVE** (PA) is suitable for disinfecting your silicone pessaries. We are pleased to provide the following information:

For a better overview, we have presented our approvals in the following table:

Constructor	Device	Typ	PERFEKTAN® ACTIVE
Dr. Arabin GmbH & Co. KG	DR. ARABIN® Anpassungs-Set	Ring Pessare	Well suited
Dr. Arabin GmbH & Co. KG	DR. ARABIN® Dicker Ring	dicker Ring Pessar	Well suited
Dr. Arabin GmbH & Co. KG	DR. ARABIN® Hybrid-Pessar	Hybrid-Pessar/soft	Well suited
Dr. Arabin GmbH & Co. KG	DR. ARABIN® Keulen Pessar	Keulen Pessar	Well suited
Dr. Arabin GmbH & Co. KG	DR. ARABIN® Sieb-/Schalen Pessar	Sieb-/Schalen Pessar	Well suited
Dr. Arabin GmbH & Co. KG	DR. ARABIN® Tandem Pessar perforiert	Tandem Pessar perforiert	Well suited
Dr. Arabin GmbH & Co. KG	DR. ARABIN® Tandem Pessar ungelocht	Tandem Pessar ungelocht	Well suited
Dr. Arabin GmbH & Co. KG	DR. ARABIN® Urethra Pessar	Urethra Pessar	Well suited
Dr. Arabin GmbH & Co. KG	DR. ARABIN® Urethra Schalenpessar	Urethra Schalenpessar	Well suited
Dr. Arabin GmbH & Co. KG	DR. ARABIN® Urethra Pessar /Stahleinlage	Urethra Pessar /Stahleinlage	Well suited
Dr. Arabin GmbH & Co. KG	DR. ARABIN® Würfel Pessar (mit Knopf) /perforiert	Würfel Pessar (mit Knopf) /perforiert	Well suited
Dr. Arabin GmbH & Co. KG	DR. ARABIN® Scheidendehner	Scheidendehner	Well suited

Our approvals are based on internal material compatibility tests with silicone. The durability of an inferior silicone in our instrument disinfectant PA was tested in a worst-case procedure. No material changes could be detected. Dodecamethylcyclodisiloxane (D6) is largely resistant to hydrolysis as long as the pH value is not strongly acidic (< pH 2) or basic (> pH 10). PA has a pH value of approx. 8.5 in solution (comparable to drinking water). Peracetic acid (PAA) at 2% concentration is not strong enough to directly cleave the siloxane structure. D6 remains stable in a neutral or slightly acidic medium.

Product information and mode of action:

PERFEKTAN® ACTIVE is a powder concentrate based on peracetic acid, which is suitable for the manual disinfection of all types of instruments. It is an easily and completely soluble powder and therefore reliable and safe to use. **PERFEKTAN® ACTIVE** achieves a maximum spectrum of efficacy with excellent material compatibility based on its peracetic acid base.

When peracetic acid powder is dissolved in water, the reaction of the powder components with water produces the following main substances:

Peracetic acid (CH₃CO₃H):

This is the main component responsible for the disinfectant effect. It is produced by the reaction of acetic acid and hydrogen peroxide in the powder.

Acetic acid (CH₃COOH):

Acetic acid contributes to the disinfectant effect and sometimes to the acidic pH value of the solution.

Hydrogen peroxide (H₂O₂):

H₂O₂ is formed when dissolved in water, is released and contributes to oxidation and disinfection.

Water (H₂O):

Water is the solvent in which the reactions take place and it remains as the main component of the solution.

When peracetic acid powder is dissolved in water, small amounts of gaseous substances (oxygen, carbon dioxide and acetic acid vapor) can be released. Acetic acid (4 % to 6 %) is often contained in household vinegar and table vinegar used for culinary purposes, cleaning and various DIY applications. The concentrations in these products are generally low and not harmful when used as intended. In comparison, the odor threshold for peracetic acid is < 0.15 mg/m³; for acetic acid < 2.5 mg/m³. Both values are therefore well below the occupational health and safety limits (peracetic acid 0.316 mg/m³ and acetic acid 25 mg/m³).

It can therefore be stated that there is no danger from the perceptible vinegar odors when handling our product.

Personal protective equipment:

According to our safety data sheet (see attachment to our e-mail), it is recommended to wear safety goggles (EN 166), chemical protective gloves and light protective clothing when mixing and handling the solution.

Wir hoffen, Ihnen mit unseren Ausführungen weitergeholfen zu haben und stehen Ihnen selbstverständlich auch in Zukunft für Fragen und Informationen zur Verfügung.

Best regards

Dr. Schumacher GmbH



i. V. Christian Frank

Head of Customer Science