

## **BIOANTISEPTICA for hand disinfection**

### **ADVANTAGES - BIO-ETHANOL IN HAND DISINFECTANTS**

**Ethanol** (ethyl alcohol, alcohol, formula C<sub>2</sub>H<sub>5</sub>OH) occurs naturally in many foods, for example in ripe fruits and fruit juices. **Ethanol is considered to be the most well tolerated and most non-toxic alcohol.** The tissue compatibility of 80% ethanol is significantly better than that of 60% isopropanol. The inhalation toxicity is also much lower than that of the two propanols. Bioantiseptica also contains only BIO ethanol, which is extremely pure and almost odorless.

Although there are no mentions of intoxications by Inhalation of any alcohols when used properly, it is recommended to use ethanol-based products for the application on irritated or extremely sensitive skin, with risk of inhalative exposure and for particularly sensitive patients (new-born babies, people with respiratory diseases).

At a concentration of 10% ethanol has microbistatic effect and above 30% as a micro-bicide.

The optimal concentration against bacteria is between 70 and 80%. Enveloped viruses are being covered independently from the ethanol concentration, but ethanol is above all more effective against non-enveloped viruses than propanol. For the inactivation of non-enveloped viruses either ethanol needs to be highly concentrated (>80%) or it needs to be coupled with synergistic combination-partners.

According to the RKI (Robert-Koch-Institute) alcohols are much more skin-friendly than hand-wash products. Bio-based anti-septics are especially skin-friendly by the use of bio-based ethanol and a bio-based lipid-balancing ingredient, also for children's hands.

With adequate use of skin protection and skin care, their use, unlike hand washing, is also not associated with the risk of irritation dermatosis.

A development of resistance of germs due to the mechanism of action of alcohols is neither known nor expected. The well-known property of alcohols to dry quickly in the air contributes to a comfortable application.

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