



HD 410

Hand Disinfectant

Product Information

Area of application

HD 410 is a fast-acting, alcohol-based rub-in preparation for hygienic and surgical hand disinfection. Suitable safety gloves can also be disinfected with HD 410.

Advantages of the product

- Tested effectiveness with broad effective spectrum against bacteria, fungi and many viruses (enveloped viruses, e.g. Vaccinia viruses, BVDV, inclusive of HBV, HCV and HIV, herpes simplex viruses, SARS Corona viruses as well as non-enveloped viruses, e.g. Adeno viruses, Polyoma SV 40 viruses, Rota viruses, Noro viruses).
- VAH/DGHM listed. ÖGHMP listed. Tested in accordance with EN 1500, EN 12791, EN 13727, EN 13624, EN 14348, EN 14476.
- Ready-to-use solution with instant and long-term action.
- Contains skin-care and refatting substances.
- Skin compatibility clinically tested.

Microbiological effectiveness

HD 410 has the following characteristics of performance:

Application	Time
Hygienic hand disinfection ¹⁾	15 sec.
Surgical hand disinfection ¹⁾	1.5 min.
Bacteria ¹⁾ and fungi ¹⁾	15 sec.
MRSA ²⁾	15 sec.
Tb bacteria ¹⁾	15 sec.
Vaccinia viruses, BVDV, inclusive of HBV, HCV, HIV ^{3), 4)}	15 sec.
Herpes simplex viruses ⁴⁾	1.5 min.
SARS Corona viruses ⁴⁾	15 sec.
Rota viruses ⁴⁾	15 sec.
Adeno viruses ⁴⁾	2 min.
Polyoma SV 40 viruses ⁴⁾	2 min.
Noro viruses ⁵⁾	1 min.

¹⁾ In accordance with DGHM Guidelines and/or EN 1500, EN 12791, EN 13727, EN 13624, EN 14348

²⁾ Bactericidal effectiveness implies effectiveness against MRSA

³⁾ According to RKI recommendation (Bundesgesundheitsbl. 47, 62 – 66, 2004)

⁴⁾ Suspension test in accordance with BGA/DVV guidelines and/or EN 14476

⁵⁾ Tested with surrogate virus MNV in accordance with EN 14476

Application

For hygienic hand disinfection (instant action), moisten dry hands completely with HD 410 and rub in for 15 seconds. For surgical hand disinfection (instant and long-term action), moisten your clean and dry hands completely and keep moist for 1.5 minutes with HD 410. Apply HD 410 after each treatment in accordance with the rules of hygienic hand disinfection. Visibly soiled hands must be additionally cleaned afterwards. Use HD 410 directly from the bottle, a dosing pump which can be screwed onto the bottle or through a special dispenser for disinfectants. If there is contamination with MRSA bacteria, Tb bacteria, enveloped viruses (e.g. Vaccinia viruses, BVDV inclusive of hepatitis B viruses, hepatitis C viruses and HIV, SARS Corona viruses, herpes simplex viruses as well as non-enveloped viruses, e.g. Adeno viruses, Polyoma SV 40 viruses, Rota viruses, Noro viruses keep hands completely moist with HD 410 for 15 sec. to 2 min. (see table).

Caution

Pharmaceutical product, keep out of reach of children. Do not use the pharmaceutical product after the expiry date has lapsed. If safety gloves are to be disinfected, pay attention to their resistance against alcohols.

Chemical composition

HD 410 is based on a fast-acting combination of the alcohols propan-1-ol and propan-2-ol and a special, particularly kind-to-the-skin quaternary ammonium compound for residual action. For the care and protection of the skin, the formulation contains additional refatting and caring components.

Packing units

10-litre canister

carton of 3 400-ml bottles

carton of 6 1-litre bottles

carton of 10 x 125-ml bottles

carton of 12 400-ml bottles

Accessories

Container tap, preparation dispenser (400 ml and 1 litre) for wall installation, metering pump for 400-ml and 1-litre bottle, preparation dispensers made of plastic or aluminium for 400-ml and 1-litre bottles, floor stand made of aluminium for hand disinfectants (inclusive of non-contact dispenser made of aluminium for 1-litre bottles, drip tray, locking plate and display), floor stand made of stainless steel for hand disinfectants (without preparation dispenser).

Please turn over

Shelf life • Storage • Physical properties • Toxicology • Ecology • Caution • Expertise

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Shelf life

4 years

Storage

Store at room temperature. Keep away from heat, light and moisture. Store in a cool place, but not below -5°C for a longer period of time.

Physical properties

Appearance:	clear, light blue fluid of low viscosity
Density:	$D = 0.86 \pm 0.02 \text{ g/cm}^3$ (20°C)
Viscosity:	Less than 15 seconds in the FORD flow cup according to DIN 53211
pH value:	5.5 ± 0.5
Flash point:	22°C according to DIN 51755
Temperature resistance:	between 0 and +40°C.

Toxicology

The acute oral toxicity (LD₅₀) in rats is > 5 ml/kg of body weight. The acute dermal toxicity (LD₅₀) in rats is > 2000 mg/kg of body weight. Therefore, HD 410 is classified as "non-toxic". HD 410 is "non-irritant" according to the skin irritation test on rabbits, and "slightly irritant" according to the eye irritation test on rabbits. HD 410 has no sensitizing properties. Clinical tests confirm the good skin compatibility of HD 410.

Ecology

HD 410 solutions are ecologically safe. If HD 410 gets into the waste water, all ingredients are biodegradable. The packing is made of polyethylene and can therefore be exploited both materially and thermally. To recycle, rinse containers and bottles with water.

Caution

Flammable. Keep away from open flames and sources of ignition. Observe the directions for use and safety precautions for alcohol-based disinfectants. For external use only. Avoid contact with the eyes.

Independent expert opinions – own test reports

All expert reports are available upon request.

HD 410 - **Ingredients:** Active ingredients: 100 g solution contain 2-propanol 47 g, 1-propanol 26 g, benzyl-bis(2-hydroxyethyl)-cocosalanyl-ammonium chloride 0.1 g. Other ingredients: Poly(oxyethylene)-6-glycerol(mono, di)alkanoat(C₆ – C₁₀), colorant E 131, perfumes, purified water. **Fields of application:** hygienic and surgical hand disinfection. **Contraindications:** HD 410 is not suitable for the disinfection of mucous membranes and must not be applied on injured skin. Do not use HD 410 if you are allergic to one of the ingredients. **Side effects:** Skin irritations (e.g. dry skin) may arise, especially if used regularly. **Notes:** Store at room temperature. Keep away from heat, light and moisture. Store medicines out of the reach of children. Should not be used after the expiry date has lapsed. **Pharmaceutical entrepreneur and manufacturer:** orochemie GmbH + Co. KG, D-70798 Kornwestheim.

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