A 20

Instrument Disinfectant

Product Information

Area of application

A 20 is an aldehyde-free concentrate for simultaneously disinfecting and cleaning the general and surgical instruments made of metal, plastic materials, rubber and glass in clinics, care homes (old people's homes, etc.) or medical research, etc.

Advantages of the product

- Manifold fields of application – suitable for all instruments, including rotary instruments which are sensitive to alkali and alcohol.
- Tested effectiveness with comprehensive effective spectrum against bacteria, fungi and all viruses (virucidal against enveloped and non-enveloped viruses).
- VAH/DGHM listed.
- Tested in accordance with EN 13727, EN 13624, EN 14348, EN 14476, EN 14561, EN 14562, EN 14563.
- Economical due to low application concentration.
- Extraordinary cleaning activity – removes the most stubborn deposits.
- Special corrosion inhibitors result in an excellent material compatibility.
- Toxicologically safe – the product does not contain any poisonous substances.
- Service life of ready-to-use solution: 14 days max.
- Pleasant, fresh fragrance.

Microbiological effectiveness

A 20 has the following characteristics of performance:

Application	Concentration	Time
Instrument disinfection (according to VAH/DGHM)	2%	15 min.
Bacteria inclusive of MRSA[1)] and fungi[2)]	2%	15 min.
TB bacteria	2%	1 hour
Vaccinia viruses, BVDV incl. HBV, HCV and HIV[3)]	1%	1 min.
Adeno viruses	2%	30 min.
Polyoma SV 40 viruses	2%	5 min.
Polio viruses	6%	4 hours
Noro viruses[4)]	6%	4 hours

[1)] Effectiveness against bacteria implies effectiveness against MRSA.
[2)] Test for Candida albicans and Aspergillus niger.
[3)] In accordance with RKI recommendation (Bundesgesundheitsbl. 47, 62 – 66, 2004).
[4)] Effectiveness against Polio viruses implies effectiveness against Noro viruses.

Application

A 20 has a concentration of 2% for an action period of 15 minutes in accordance with VAH/DGHM and 2% and 60 minutes if TB bacteria are included. In order to make 1 litre of ready-to-use solution, pour 20 ml of A 20 out of the container or bottle using the measuring beaker/dosing head and fill with water up to 1 litre. When using an ultrasonic cleaner, we recommend 2% for 2 minutes, for TB bacteria 2% and 30 minutes.
The instruments must be completely covered by the disinfecting solution. Remove disinfected instruments from the bath, rinse them under running water and dry and sterilize them, if necessary. The service life of the ready-to-use solution is 14 days max. We recommend replacing the solution with a fresh solution if it becomes heavily soiled with blood and protein.
Do not mix A 20 with other disinfectants or detergents. Always first disinfect and if necessary clean used instrumentarium. Rinse instruments with plenty of water and dry them up before sterilization.

Caution

We recommend testing the material compatibility of A 20 in each individual case.
Do not mix A 20 with preparations which contain aldehydes, e.g. glutardialdehyde or glyoxal, as they may cause reddish brown staining when coming into contact with A 20. Clean the disinfection box thoroughly before using A 20 for the first time.

Chemical composition

A 20 is based on a combination of alkylamines, quaternary ammonium compounds, non-ionic surfactants, complexing agents and adjuvants in aqueous solution. 100 g contains 15 g 3-aminopropyl-dodecyl-1,3-propanediamine, 12.5 g alkyl-benzyl-dimethyl-ammonium chloride, citronellol, coumarin.

Packing units

10-litre container | Carton of 2 1-litre bottles | Carton of 6 1-litre bottles

Accessories

3-litre disinfection box, container tap, 100-ml measuring beaker, dosing head for 1-l bottle, dosing bottle.

Shelf life

Concentrate: 4 years
Ready-to-use solution: Fresh solution 28 days; used solutions 14 days max., depending on the contamination.

Please turn over

Storage • Physical properties • Toxicology • Ecology • Caution

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Storage

Store preparation in a cool place, but not below 5°C.

Physical properties

Concentrate:

Appearance:	Clear, blue fluid of low viscosity
Density:	D = 1.00 ± 0.02 g/cm³ (20°C)
pH value:	12.0 ± 0.5

2% ready-to-use solution:

Appearance:	Clear, light blue solution
pH value:	10.2 ± 0.5

Toxicology

The acute oral toxicity (LD_{50}) of the concentrate in rats is approx. 1400 mg/kg of body weight. A 20 is therefore classified as "harmful“. The acute dermal toxicity (LD_{50}) in rats is > 2000 mg/kg of body weight. A 20 is therefore classified as "non-toxic". Contact of the 2% ready-to-use solution with the eyes causes irritation whereas contact with the skin does not have any irritating effects.

Ecology

If adequately diluted, the ready-to-use solutions are ecologically safe as all organic constituents are biodegradable. The packing is made of polyethylene and can therefore be exploited both materially and thermally. To recycle, rinse the containers or bottles with water. The acute fish toxicity LC_{50} (96 h) is 2.58 mg/l.

Caution

A 20 concentrate is classified as “corrosive” and “dangerous to the environment” (R 22-35-50, S 26-28-37/39-61; see MSDS) in accordance with the Directives relating to the classification, packaging and labelling of dangerous substances and preparations.

Complementary products from oro® Hygienesystem

Instrument disinfection • Disinfection of surfaces and inventory • Disinfection and care of hands and skin • Disinfection of special applications • Accessories

Information as of 01/10

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