

December 17th, 2014
(updated June 24th, 2015)

Surface disinfection of medical devices

Dear Sir or Madam,

The importance of hospital hygiene has continuously increased throughout recent years. Along with hospitals and disinfectant manufacturers, as medical device manufacturer, Dräger also contributes to infection control.

There is a growing trend in health care delivery towards the use of workplaces optimized for workflows, rather than use of single medical devices. Our target is to allow medical staff to disinfect the complete workplace with a single surface disinfectant, in order to simplify clinical processes.

Cleaning agents and disinfectants may damage the plastic surfaces of medical devices if they are not compatible with the housing materials. Damaged materials may impact decontamination and/or device functionality (see Medical Device Alert UK, Ref: MDA/2013/019, March 27th 2013).

The independent and ISO 17025 accredited Dräger TestCenter conducted more than 20,000 tests on the compatibility of all well-established disinfectant groups with the types of housing materials used in medical devices worldwide.

The active ingredients in disinfectants must be declared but not the additives. However, investigations at our TestCenter demonstrated that additives can cause significant damage to materials. This further limits the number of suitable disinfectants.

The following list replaces information on surface disinfectants and recommendations on active ingredient groups for all instructions for use for medical devices manufactured by Dräger and issued before April 2015:

| Product name | Active substance | Manufacturer |
|--|---|----------------|
| Actichlor® plus | Chlorine releasing disinfectant | Ecolab |
| Buraton® 10 F | Aldehyde | Schülke & Mayr |
| Clorox® Professional Disinfecting Bleach Cleaner | Chlorabspalter | Clorox |
| Descogen® Liquid | Oxygen releasing disinfectant | Antiseptica |
| Descogen® Liquid r.f.u. | Oxygen releasing disinfectant | Antiseptica |
| A-Wipes | Dry wipes that are impregnated with Descogen Liquid or Descogen Liquid r.f.u. | Antiseptica |
| Dismozon® plus | Oxygen releasing disinfectant | Bode Chemie |
| Dismozon® pur | Oxygen releasing disinfectant | Bode Chemie |
| Dispatch® Hospital Cleaner Disinfectant Towels with Bleach | Chlorabspalter | Clorox |
| Klorsept® 17 | Chlorine releasing disinfectant | Medentech |
| BruTab 6S | Chlorine releasing disinfectant | Brulin |
| Mikrozid® sensitive liquid * | Quaternary ammonium compounds | Schülke & Mayr |
| Mikrozid® sensitive wipes * | Quaternary ammonium compounds | Schülke & Mayr |
| Oxycide® | Oxygen releasing disinfectant | Ecolab USA |
| Perform® | Oxygen releasing disinfectant | Schülke & Mayr |
| Virkon® ** | Oxygen releasing disinfectant | DuPont |

* limited virucidal, ** no CE labelling

The listed surface disinfectants were compatible with all tested materials at the time of validation (November 2014). The efficacy spectrum provided by each respective manufacturer includes at least bacteria (bactericidal), yeasts (yeasticidal) and viruses (virucidal or limited virucidal). If these disinfectants are applied properly to the surfaces of the medical devices manufactured by Dräger, material compatibility, as well as the required range of efficacy should be assured.

Besides material compatibility, the broad efficacy spectrum of oxygen- and chlorine-releasing disinfectants is an advantage. Please note that oxygen- and chlorine-releasing disinfectants may cause color changes in certain materials over time. However, because this is a well-known side effect and does not impact functionality, it is not covered under warranty.

Mikrozid sensitive is based on quaternary ammonium compounds (QAC). Mikrozid sensitive shows better material compatibility than conventional QAC-based disinfectants due to lower QAC and additive concentrations.

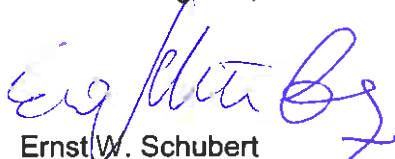
The issuance of this list is not, and must not be interpreted as a general approval by Dräger of disinfectants of the same active substance group contained in the list. Dräger advises against the use of disinfectants based on QAC and/or alcohol that are not listed and against the use of oxygen-releasing disinfectants that contain AHP® (accelerated hydrogen peroxide licensed by Virox).

There is no obligation to use the listed disinfectants, however deviations from these recommendations are sole responsibility of the user. Furthermore, Dräger bears no responsibility for the use of the listed disinfectants with devices not manufactured by Dräger.

The utilization of disinfectants that are suitable for all your Dräger products will help to increase patient and workplace safety and protect your investment in medical devices.

If there are further questions please do not hesitate to ask your local Dräger office for assistance.

With best regards,



Ernst W. Schubert
Global Marketing Manager
Corporate Structural Platforms
Segment Hospital