



Instru Plus

Instrument disinfection

EN - Instructions for use

Thank you for purchasing this product from Laboratorium Dr. Deppe GmbH.

If you have any questions about the contents of these instructions for use or the application of the product, please contact us. Your Laboratorium Dr. Deppe Team



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About these instructions for use

These instructions for use contain the information required to use Instru Plus correctly (referred to below as the "product"). The instructions for use must be kept with the product and must be available to the user at all times. Anyone using the product must have read and understood the instructions for use in full, in particular the section on safety and the accompanying documents. Report all serious incidents (damage, injuries, infections, etc.) that occur in connection with the product to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.

Accompanying documents

The following documents must be complied with in addition to the instructions for use: Labels on the product packaging, product data sheets, material safety data sheets, operating instructions, dosing tables and information on the shelf life of open containers. The documents can be downloaded from the Laboratorium Dr. Deppe GmbH website or requested by e-mail.

Explanation of symbols

These instructions for use and the labelling on the product use symbols to draw your attention to certain information and hazards.

Symbol	Description
	Manufacturer
	Use-by date
	Lot number
	Catalogue number, DrDeppe item number
	Consult instructions for use
	Medical device
	Unique Device Identifier
	The letters CE stand for European Conformity; this symbolises the compliance of the product with the applicable requirements that the European Community places on the manufacturer.
	Health hazard
	Corrosive
	Serious health hazard

Safety

The following section provides information on the safe use of the product. Read and follow all safety instructions and contact the manufacturer if anything is unclear.

Personal protective equipment*

Eye protection: Safety glasses with side protection (EN 166)
Skin and body protection: Long-sleeved work wear (DIN EN ISO 6530)
Hand protection: Chemical-resistant protective gloves made of nitrile rubber (NBR) (EN ISO 374). Follow the glove manufacturer's instructions regarding penetration times, taking particular account of workplace conditions such as mechanical stress and duration of contact.
Respiratory protection: If ventilation is inadequate, wear respiratory protection.
*Section 8.2. Exposure controls / Safety data sheet

Safety information

The following safety instructions apply when handling the product

Use the product solely for its intended purpose. This product may cause cancer. This product causes serious eye damage and may cause allergic skin reactions. Avoid contact with eyes or skin. Harmful if inhaled and/or swallowed. Causes skin and respiratory irritation and may cause allergies, asthma symptoms, or breathing difficulties if inhaled. Avoid breathing gas, mist, vapour or aerosol. Obtain special instructions before use. Effectiveness is only guaranteed with the mixing ratio specified and in compliance with the specified contact times and temperature limits for application. Harmful to aquatic life with long lasting effects. Avoid release into the environment. Ensure the workplace is well ventilated and, if necessary, provide local exhaust ventilation or general room ventilation. Take all necessary protective measures to prevent or minimise the release of the product into the workplace. Thoroughly ventilate areas contaminated with the product. Do not eat, drink or smoke when using this product. Protect the product from direct sunlight and keep it away from food, beverages, and animal feed. Wash hands thoroughly after handling the product. Do not wear work clothing outside the workplace and wash it separately before wearing it again. Limit the amount of product used to the minimum necessary and minimise the number of users exposed to the product. Do not combine the product with cleaners or disinfectants containing amines. If instruments are not cleaned well enough beforehand, the aldehyde in the product may cause protein fixation. Not suitable for splashing or spraying. Not suitable for the final disinfection of critical instruments requiring sterilization.

Contains

1,6-Dihydroxy-2,5-dioxahexane; Formaldehyde; Glutaral; Alcohol, C9-11-iso-, C10-rich, ethoxylated

Safety measures

Take the following measures in the event of improper use or accidents with the product.

First-aid measures

General: If exposed or concerned: Seek medical advice/attention. Call a poison centre or doctor if you feel unwell.
After inhalation: Move the person to fresh air and ensure unobstructed breathing. Call a poison centre or doctor if you feel unwell. Acute and delayed symptoms: Allergies, breathing difficulties.
After skin contact: Rinse skin with plenty of water. Remove contaminated clothing. If skin irritation or rash occurs: Seek medical advice /attention. Acute and delayed symptoms: Chemical burns.
After eye contact: Rinse gently with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a doctor immediately. Acute and delayed symptoms: serious eye damage.
After swallowing: Rinse mouth. Call a poison centre or doctor if you feel unwell.

Firefighting measures

Comply with the following instructions and measures in the event of fire. Suitable extinguishing media: Water spray jet, dry extinguishing powder, foam, carbon dioxide.
Unsuitable extinguishing media: Do not use a full jet of water to prevent the fire from scattering and spreading.

Special hazards arising from the substance or mixture

In the event of fire, toxic fumes may be released as hazardous decomposition products.

Advice for firefighters

Protection during firefighting: Do not attempt to work without suitable protective equipment. Wear a self-contained breathing apparatus and full protective clothing.
Disposal of extinguishing media: Do not allow the extinguishing water to enter the sewage system or watercourses. The disposal of extinguishing water must be carried out in accordance with official regulations.

Accidental release measures

Comply with the following instructions and measures in the event of accidental release of the product.

Personal safety precautions

For non-emergency personnel: Ventilate the contaminated area. Avoid contact with eyes and skin and do not inhale dust, smoke, gas, mist, vapour or aerosol. For emergency responders: Do not attempt to work without suitable protective equipment.

Environmental precautions

If the product enters the sewage system or public waters, the authorities must be notified. Avoid penetration into the subsoil. Prevent the product from entering the sewage system and public waters.

Methods and material for containment and cleaning up

For containment: Collect spillage.
Cleaning procedure: Soak up the spilled liquid using mechanical methods (wiping up, sweeping up) with absorbent material. Take substances or residual quantities in solid form to an authorised facility.
Disposal: Disposal must be carried out in accordance with official regulations.

Intended purpose

As a high-level disinfectant, the product is part of the final manual reprocessing procedure of all thermostable and thermolabile instruments such as rigid and flexible endoscopes, endoscopic accessories and anaesthetic equipment by immersion.

Requirements for the user

The product is intended exclusively for use by trained medical personnel and cleaning specialists from the healthcare sector

Requirements for the usage environment

The product is intended for use within the following temperature ranges. Outside the temperature limits there are no data on efficacy. Recommended ambient temperature for use (min. - max.): 20 - 25°C.

Material compatibility

Not suitable for latex, EPDM (ethylene propylene diene rubber), and polymethacrylate. Before using the product, check its material compatibility with the instrument materials; follow the manufacturer's instructions.

Product properties

The product is used as a disinfectant to eliminate microorganisms on medical instruments and ultimately helps to prevent infections.

Composition/Active substance

The following information refers to 100 g of the product:
(Ethylenedioxy)dimethanol: 15.0 g
Glutaral: 4.8 g
Formaldehyde: 0.996 g

Chemical and physical properties

Colour: light green
State: fluid
pH-value: 3.4 - 4.0
Density: 1.0416 - 1.0516 g/ml

Contact times

The efficacy of the product depends on the combination of concentration and contact time of the product on the instrument. The instruments to be disinfected are placed in the instrument holder, and cavities must be thoroughly rinsed. Contaminants such as blood, saliva, or similar substances can impact the effectiveness of the disinfectant. Only disinfect instruments that have been adequately pre-cleaned and rinsed. Effectiveness is guaranteed with the specified mixing ratio and in compliance with the specified contact times and temperature limits. To ensure safe and reliable results, keep the instruments moistened with working solution for the entire contact time.

Efficacy: bactericidal (EN 13727; EN 14561)/ yeasticidal (EN 13624; EN 14562) dirty condition 3% 5 min., 2% 15 min.; fungicidal (C. albicans; A. brasiliensis/EN 13624; EN 14562) dirty condition 4% 30 min.; tuberculocidal (M. terrae/EN 14348; EN 14563) clean condition 4% 30 min., 3% 60 min.; mycobactericidal (M. terrae; M. avium/EN 14348; EN 14563) clean condition 5% 30 min., 3% 60 min.; active against enveloped viruses (Vaccinia strain Elstree; BVDV/DVV-RK1) 10% FBS 3% 5 min.; limited spectrum of virucidal activity (Adenovirus type 5; Murine Norovirus/ EN 17111) dirty condition 4% 15 min.; virucidal (Adenovirus type 5; Murine Norovirus; Poliovirus type 1; Polyoma SV-40/DVV-RK1; EN 17111) 10% FBS 4% 15 min.; dirty condition 4% 15 min.

Use

Dosing the product correctly

The product is supplied as a concentrate for the preparation of a ready-to-use solution. Before use, the working solution is prepared taking into account the required concentration for the planned application. Mix the product with water of drinking quality to form a working solution.

Application example: To prepare 1 litre of a 1% working solution, mix 990 ml of water with 10 ml of concentrate.

Using the product

Follow the instructions below for using the product and contact the manufacturer if you have any questions or concerns. Follow the hygiene requirements for the reprocessing of medical. Follow the instructions for preparation, cleaning and disinfection, rinsing and drying, and storage as stated in the instructions for use from the manufacturer of the instrument or device. Do not combine products containing amines with aldehyde-based products. Clean and rinse all instruments, accessories, trays, processing equipment, and application aids thoroughly when using the product for the first time or when changing products.

Immersion Method

After cleaning, immerse the instruments. All surfaces and cavities must be covered or filled. Please follow the application concentration and contact times. Remove instruments, rinse thoroughly with water (drinking water quality), and dry.

Product change

The product is not compatible with disinfectants containing amines. On first use and when changing products, thoroughly clean and rinse the instruments and accessories, trays, reprocessing equipment, and application aids. The working solution is resistant to protein and can potentially be reused multiple times. In case of cloudiness or visible changes (e.g. cloudiness, flocculation, discoloration), replacing the working solution is recommended.

Storage and Disposal

Requirements for the storage environment

Store the product in a well-ventilated place in a sealed condition and protect it from unauthorised access.

Shelf Life

Do not use the product after the expiry date indicated on the packaging and dispose of it properly. The product has a shelf life of 12 months after opening.

Disposal

Disposal must be carried out in accordance with the applicable national and local regulations. The instructions in the safety data sheet for the concentrate must also be complied with.