

## Operating Instructions Ultrasonic bath

Building: SupraFAB

Area of application:  
Freie Universität Berlin  
Altensteinstr. 23a



### Operating Instructions – Working with Ultrasonic bath According to Occupational Health and Safety Regulation

Work space: SupraFAB

Work station: Room 114

#### Hazards for people and the environment



Risk of damage to health due to ultrasonic noise (in particular of the hearing organ).

Skin, bone or nerve damage is possible when inserting or removing glassware into or from the running device.



Danger due to high temperatures: the device, the ultrasonic fluid and the goods to be treated may become hot during operation (even without additional heating). Touching them may cause burns.

#### Protective measures and rules of behaviour



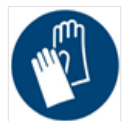
Only instructed persons may work with the ultrasonic bath.

Wear suitable hearing protection.

Use (if possible) a lid to reduce noise.

Only insert or remove vessels when the device is switched off. Do not reach into the sonication fluid during operation.

Do not leave the ultrasound on for longer than necessary.



Do not use combustible, explosive or non-aqueous liquids (e.g., petrol, solvent) or mixtures with combustible liquids (e.g., alcoholic solutions) directly in the stainless steel ultrasonic oscillating tank.

Agents used in the device can be toxic or corrosive. They can irritate eyes, skin and mucous membranes. The vapours and aerosols can also be dangerous. Wear gloves and goggles when handling dangerous agents.



Do not use flammable cleaning agents with flash points below 100°C or agents containing acid or chlorine.

Follow the manufacturer's operating instructions.

#### Behaviour in case of danger



Inform the person responsible for the area immediately in the event of faults! Switch off the machine!

**In case of fire: Keep calm!**

**Call the fire department on 112! Inform the central control room on 55112!**

Warn employees!

Fight the fire with a CO2 extinguisher! Pay attention to self protection!

#### First aid



Inform first aiders (see alarm plan). Treat minor injuries immediately and enter them in the first aid book.

In the event of more serious injuries, consult a general practitioner or call an emergency doctor.

Inform the workshop management.


Rescue service: **112**

#### Proper disposal Service

Maintenance works may only be carried with the approval of the laboratory manager.

Replacement parts may only be used if the material and design are equivalent to the original.

Consider the maintenance scheduler of the manufacturer.

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<b>For further questions, please contact the Occupational Safety department</b> <b>Tel.: -54495</b>	Date and signature of division manager:
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