



## Concentrate for the maintenance of the water quality in thermostats and waterbaths

### Using Instruction

Prothermal® can be applied in waterbaths, thermostats, heatable cuvette-holders and in all temperable watercooling systems.

Clean the waterbath / thermostat before applying Prothermal®. Add 2-3ml (<50°C) or 1-2ml (>50°C) Prothermal® per 1 liter demineralized water. End-concentration is 0.1 - 0.3%.

The effectiveness of PROTHERMAL can be monitored by the blue color. Usually, Prothermal® should be renewed after 2 months in waterbaths and after 3-4 months in closed cooling systems.

### Mode of action

Prothermal® prolongs the use of the water filled in waterbaths, thermostats and similar. It acts germicidal and complex-binding to prevent the growth of algae, mold and bacteria. In addition, Prothermal® prevents the tempered equipment and watertubes from obstruction and pollution and impedes the deposit of calcium and heavy metals. These cleaning effects provide for consistent heat-transmittance.

### Active Ingredients

C12-C16-alkyl-benzyl-dimethyl-ammonium-chloride (<6%), Sodium nitrite (<1.5%), Sodium hydroxide (<0.02%)

### Stability, Storage, Handling, Disposal

Store at room temperatures in sealed and undamaged containers. Prothermal® is stable for >3 years, if stored as proposed. Freezing will cause separation or solidification. In such cases, Prothermal® should be heated and homogenized before use. Storage at high temperatures may cause decomposition and color changes.

Avoid release to the environment. Do not allow undiluted product to reach ground water, water course or sewage system. If released, dilute with plenty of water. Prevent further leakage or spillage.

Disposal of product after intended use (0.1-0.3% end-conc.): consign to a licensed waste disposal company. Disposal of undiluted product (container, residual amounts): consign to a licensed waste disposal company.

### Health and Safety



**GHS05**  
Corrosion



**GHS07**  
Exclamation mark



**GHS09**  
Environment

Signal word: **Danger**

### Classification:

Skin Corr. 1B	H314: Causes severe skin burns and eye damage
Eye Dam. 1	H318: Causes serious eye damage
Acute Tox. (o) 4	H302: Harmful if swallowed
Aquatic Acute 1	H400: Very toxic to aquatic life
Aquatic Chronic 2	H411: Toxic to aquatic life with long-lasting effects

### Precaution:

P270	Do not eat, drink or smoke when using this product
P273	Avoid release to the environment
P280	Wear protective gloves and eye protection

For further information on health and safety see our Safety Data Sheet.