



## Acidic Detergent for the food industry

### Liquid concentrate

#### Fields of application:

- Cleaning of production systems, containers, tanks and lines using automated CIP processes or circulation processes in the food industry.
- Machine cleaning of reusable transport boxes and containers in cleaning systems.

#### Performance spectrum:

niroklar 2000 contains phosphoric acid and special wetting agents, and has the following properties:

- Powerfully dissolves mineral and other acid-soluble deposits
- Emulsifying action
- Infiltrates organic deposits and supports their removal
- Has a good contaminant-carrying capacity and is easy to stack
- Foam-free upwards of 40 °C
- Material-preserving formulation
- Suitable for stainless steel, rubber and acid-resistant plastics and seals
- Highly-effective corrosion inhibitors largely prevent the attack on light and non-ferrous metals and their alloys, taking into account the application conditions.

#### Application and Dosage:

- Cleaning using automated CIP processes or circulation processes: The application concentration is 0.5 – 2.5 % (w/w), depending on application, degree of soiling and water hardness, in the temperature range of 40 – 80 °C
- Cleaning of reusable transport boxes and containers in cleaning systems:

The application concentration is 0.3 – 0.5 % (w/w), depending on application, degree of soiling and water hardness, in the temperature range of 50 – 65 °C

- niroklar 2000 must not be mixed with active chlorine-containing cleaning solutions.
- Acidic and/or oxidative detergents and disinfectants must not be used for long-term use due to the risk of pitting corrosion of stainless steel. The formation of pitting corrosion is facilitated by high chloride amounts in the water, high temperatures and still solutions.
- When using niroklar 2000 the items to be washed, the cleaning system and the drain pipes must be acid-compatible.

#### General notes on application:

- For professional use only.
- In order to avoid product residues, rinse all surfaces with drinking water, especially those that come in contact with food, after each cleaning and disinfection measure.
- Do not mix with other products.
- Rinse out dosing system including suction hoses with water before changing product.
- Only dose from the original container
- Do not use as a concentrate – only as a working solution
- Please observe the operating instructions given by the manufacturer of the system/device
- The weigomatic dosing systems and neomatik dosing devices by Dr. Weigert enable controlled, safe and economical application. We are a specialist company in accordance with the German Water Act (Wasserhaushaltsgesetz, WHG). Suited to the individual conditions and requirements, we plan, install and maintain central and distributed dosing systems.

## Determining concentration:

After adding one to two drops phenolphthalein solution, 10 ml of niroklar 2000 solution is titrated with 0.1 N sodium hydroxide (NaOH) until the colour changes from colourless to red.

ml of 0.1 N NaOH used x 0.11 = % (w/w)  
niroklar 2000

## Technical data:

Appearance	Clear, colourless liquid
pH-value	1.8 (1 % in fully deionised water, 20 °C)
Density	approx. 1.3 g/cm <sup>3</sup> (20 °C)
p-value	approx. - 37 (ml of 0.1 N (NaOH) sodium hydroxide solution used in titration of 400 mg of concentrate against phenolphthalein)

The product specification may contain deviating test parameters. This specification can be obtained on request.


## Ingredients:

Ingredients according to Regulation (EC) No. 648/2004 on detergents:

5–15 % anionic surfactants

> 30 % phosphates

## Storage information:

Always store at a temperature between -20 and 30 °C. Usable for 3 years when stored as recommended. For the expiry date refer to the stamp mark on the label behind the hourglass symbol .

Changes in the colour of the product may occur when storing in factory-sealed trade units. This has no impact on the properties of the product which are relevant for application.

## Hazard and precautionary statements:

For safety information see Safety Data Sheets. These are available at [www.drweigert.com](http://www.drweigert.com) under the category "Service/Downloads".

If applied according to the instructions for use, the product is safe according to the applicable guidelines for food processing.

Dispose only when the container is empty and closed. For disposal of product residues, refer to the Safety Data Sheet.

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