



niroklar[®] GR flüssig

Acidic Detergent for milking and milk cooling systems

Liquid concentrate



Fields of application:

- Automated and manual acidic contrast cleaning of milking and milk-cooling systems, lines and milk tanks, and of all automatic milking systems.
- Boiling-water cleaning, e.g. of Lemmer Fullwood milking systems
- Acid single-phase cleaning of milk cooling tanks

Performance spectrum:

niroklar GR flüssig is an acidic cleaning agent with the following properties:

- Solves effectively limescale and milkstone
- Supports the removal of milk protein and fat
- Free of nitric acid
- Approved by the German Agricultural Society (DLG)¹ and included on the DLG product list of cleaning agents and disinfectants for milking systems (Group 2 R acidic)
- Excellent material compatibility - optimal for silicone teat liners
- Suitable for stainless steel, aluminium, rubber and acid-compatible plastics and seals

Application and Dosage:

- For optimal results, milking systems should be pre-rinsed with cold to lukewarm water after every use, and so should milk-collection containers, cooling tanks and milk containers after every time they are emptied.
- **Acidic contrast cleaning of milking and milk-cooling systems:** 0.5 % (w/w) of niroklar GR flüssig application solution (e.g. 34 ml per 10 l water) at temperatures of 30 – 80 °C, circulation time 10 –20 min.

- For optimum cleaning results, we recommend daily alkaline cleaning and disinfection with neomoscan AM 100 or neomoscan RM.
- **Boiling-water cleaning:** The application concentration is 0.5 – 2.5 (w/w) (34 – 171 ml per 10 l water), depending on the degree of soiling, at temperatures of 40 – 100 °C, optimally approx. 77 – 97 °C for 5 – 8 min.
- **Acid single-phase cleaning:** 0.5 (w/w) of niroklar GR flüssig application solution (e.g. 34 ml per 10 l water) at temperatures of 30 – 80 °C, circulation time 10 – 30 min.
- The frequency of acidic contrast cleaning and acidic boiling-water cleaning of milking systems depends on the water hardness.
- niroklar GR flüssig 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 GR flüssig the items to be washed, the cleaning system and the drain pipes must be acid-compatible.

General instructions for use:

- For professional use only.
- In order to avoid product residues, rinse surfaces with drinking water, especially those that come in contact with food, after each cleaning and disinfection measure.
- Rinse out dosing system including suction hose with water before changing product.
- Only dose from the original container
- Do not use as a concentrate – only as a working solution



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- Please observe the operating instructions given by the manufacturer of the system/device
- The instructions given by the manufacturer of the milking and milk cooling systems are to be observed.
- The weigomatic dosing systems resp. neomatik dosing devices by Dr. Weigert enable controlled, safe and economical application. We are a specialist company in accordance with the German Water Conservation 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 GR flüssig 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 0.08 = % (w/w)
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Technical data:


Appearance	Clear, colourless to yellowish liquid
pH-value	1.7 (1 % in deionised water, 20 °C)
Density	approx. 1.5 g/cm ³ (20 °C)
Acid capacity	approx. - 49 (ml of 0.1 N NaOH 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 % non-ionic surfactants
> 30 % phosphates

Storage information:

Always store at a temperature between - 20 and 30 °C. Usable for 2 years when stored as recommended. For 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 under the category "Service/Downloads"

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

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

¹ DLG – Deutsche Landwirtschafts-Gesellschaft e.V. [German Agricultural Association]

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The details in this data sheet are based on our current knowledge and experience. They do not exempt users from conducting their own tests and experiments, and do not constitute a legally binding commitment regarding specific properties.