



Acidic Detergent for the food industry

Liquid concentrate

Fields of application:

- Cleaning of production systems, containers, tanks, lines and boilers in the food industry using automated CIP processes and in circulation processes.

Performance spectrum:

niroklar Sauer flüssig contains nitric acid, and niroklar Sauer flüssig is a surfactant free, highly acidic cleaning agent with the following properties:

- Removal of mineral, inorganic deposits
- Special inhibitors provide increased corrosion protection
- Buffer substances prevent the formation of nitrous gases
- Foam-free adjustment
- Low-phosphate formulation
- Suitable for stainless steel and acid-compatible plastics and seals
- Not suitable for iron, non-ferrous metals and their alloys, aluminium and light alloys

Application and Dosage:

- Cleaning using CIP or circulation processes:
The application concentration is 0.5 – 2.0 % (w/w), depending on soiling, water hardness and application, in the temperature range of cold to 70 °C.
- niroklar Sauer 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 Sauer 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
- Please observe the operating instructions given by the manufacturer of the system/device
- 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 Sauer flüssig - solution is titrated with 0.1 N caustic soda (NaOH) until the colour changes from red to colourless

$\text{ml of 0.1 N NaOH used} \times 0.12 = \% \text{ (w/w)}$
niroklar Sauer flüssig



Technical data:


Appearance	Clear, colourless liquid
pH-value	approx. 1.3 (1 % in deionised water, 20 °C)
Density	approx. 1.3 g/cm ³ (20 °C)
Acid capacity	approx. - 33 (ml of 0.1 N sodium hydroxide (NaOH) 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 % phosphates

Storage information:

Always store at a temperature between -20 and 30 °C. Keep away from sunlight. 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.

DS 1300/3-1

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With the above information, to our current knowledge we describe our product regarding safety necessities, but we do not involve any quality description or promise certain properties.