

# niroklar<sup>®</sup> 2000

Acidic detergent for the food industry - Liquid concentrate



## Main fields of application:

Cleaning of production plants, tanks, containers and pipes via automated CIP or circulation processes.

Automated cleaning of lightly soiled food transport crates in washers.

For professional use only!

## Properties:

niroklar 2000 is an acidic detergent based on phosphoric acid with a large amount of special wetting agents and has the following properties:

- effectively solves mineral deposits and other acid-soluble deposits
- emulsifying
- infiltrates organic deposits and supports their removal
- good dirt-carrying ability, re-usable
- foam-free at temperatures over 40 °C
- good material compatibility
- suitable for stainless steel, aluminium, copper, tin as well as rubber and acid-compatible synthetic materials
- highly effective corrosion inhibitors prevent an attack on light metal and non-ferrous metal surfaces

## Dosage:

### Cleaning via CIP resp. circulation processes:

1.0 - 2.5 weight% at 40 - 80 °C depending on application and degree of soiling.

### Cleaning of plastic transport crates in cleaning plants:

With lightly soiled crates dosage: 0.3 - 0.5 weight%.

The acid-compatibility of the washer, the items to be cleaned and the drain pipes must be tested first. The material compatibility must be confirmed by the washer manufacturer. With heavy soiling the dosage must be adjusted or alkaline detergents must be used.

Surfaces that come into contact with food must be rinsed with drinking water after each cleaning and disinfection to remove residues.

Do not mix with other products.

Rinse out dosing system including suction hose with water before changing product.

The instructions given by the manufacturer of the production and cleaning plants must be observed.

The weigomatic<sup>®</sup> dosing systems resp. neomatik<sup>®</sup> 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 1 - 2 drops of phenolphthalein solution, 10 ml of niroklar 2000 working solution is titrated with 0.1 N caustic soda solution until the colour changes from colourless to red.

ml of 0.1 N caustic soda solution used x 0.11 = weight-% niroklar 2000



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

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## Technical data:


Appearance: clear, colourless liquid  
Density (20 °C): approx. 1.31 g/cm<sup>3</sup>  
pH value (1 % in deionised water, 20 °C): approx. 1.8  
acid capacity (ml of 0.1 N NaOH used in titration of 400 mg of concentrate against phenolphthalein): approx. 37

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

## Ingredients:

Ingredients according to Regulation (EC) No 648/2004 on detergents:  
5 - 15 % non-ionic surfactants  
> 30 % phosphates

## Storage information:

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

## 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 appropriate guidelines for food processing.

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

MB 1304 GB/2-6  
08/19



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