



# SECODES AKTIV

## **RAPID ACTION SANITIZING AGENT FOR THE FOOD INDUSTRY**

### DESCRIPTION

SECODES AKTIV is a rapid action, no foam, sanitizing agent made of peracetic acid and hydrogen peroxide stabilized with phosphorganic complexes.

It is particularly active against all microorganisms including sporogenic ones and viruses. Thanks to these properties it is possible to sanitize at low temperatures with notable cost savings.

Even though the residues are not dangerous or toxic, it is necessary to first rinse off the residues before starting subsequent processing as is prescribed in the current legislation.

### CHEMICAL AND PHYSICAL ASPECTS

Physical aspect	Liquid
Colour	No colour
Odour	Typical pungent
Density at 20 °C kg/dm <sup>3</sup>	1.1 approx.
pH (1% sol. H <sub>2</sub> O )	3.2 approx.
pH as is	1.0 approx.
Solubility in water	Unlimited
Foam formation	none
Effects on materials	Does not damage aluminium, stainless steel, tin plated steel. It corrodes Iron Zinc, carbon steel, copper and its alloys. Plastic materials such as PE - PP - PS – Teflon are not damaged. On the plastic coated tanks and painted surfaces, since their chemical structure is unknown, it is advisable to do some initial compatibility tests.

### APPLICATIONS AND USES

In the dairy, alcoholic beverage (wine-beer), non-alcoholic beverage and preserves industries and more generally the food industry, to sanitize surfaces that come in contact with food.

### INSTRUCTIONS FOR USE

The concentration, contact time and application temperatures are determined by common technology.

### DAIRY INDUSTRY

#### **a) To sanitize tubes and tanks**

After the washing cycle, sanitize with a 0.2-0.5% solution of SECODES AKTIV at 5 – 20 °C for 20-40'.

#### **b) To sanitize the heat exchangers**

Prepare a 0.1-0.3% solution of SECODES AKTIV, circulate the solution until the heat exchanger reaches its application temperature.

#### **c) To sanitize moulds in washing machinery**

Use a 0.2-0.5% solution of SECODES AKTIV in the rinsing cycle or if foreseen in the sanitization zone.

#### **d) For the systemic sanitization of continuous cheese machinery**

Use a 0.2-0.3% solution of SECODES AKTIV at room temperature.

#### **e) For processing or packaging equipment hygiene.**

After the processing spray a 0.3-0.5% solution of SECODES AKTIV on already washed surfaces.

### IN THE WINE AND BEVERAGE INDUSTRY

#### **a) For cold sanitization of bottle fillers**

After the washing, rinse with a 0.5% solution at 5° - 20°C (or more) of SECODES AKTIV.

#### **b) For tank and tube hygiene**

After the washing cycle, rinse with a 0.2-0.5% solution of SECODES AKTIV at 5° - 20°C for 20-40'.

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**c) For premix sanitization**

After washing, pump a 0.5% solution of SECODES AKTIV throughout the system up to the bottle filler.

**d) For the sanitization of beer fermentation tanks**

Use a 0.5 -1% solution of SECODES AKTIV for 20-40'.

**e) For external sanitization of bottle fillers and transport belts**

Spray with a 0.3-0.5% solution of SECODES AKTIV

**f) Sanitization of microfiltration and ultrafiltration membranes**

Use SECODES AKTIV at a concentration from 0.2-0.5% at room temperature for 30-40' or more according to the programmed processes.

PRESERVES INDUSTRY

**a) For the cold sanitization of tubes, tanks, mixers, and fillers.**

After washing sanitize with a 0.2-0.5% solution at a temperature of 5 – 20 °C for 20' - 40'

**b) For external hygiene of process or packaging machines**

After the processing spray a 0.3-0.5% solution of SECODES AKTIV on already washed surfaces.

INSTRUCTIONS FOR DOSAGE

The SECODES AKTIV application solutions can be prepared either manually or with automatic dosage systems.

To do this automatic solution control and filling systems are available.

CONTROLLING SOLUTIONS- REAGENTS AND EQUIPMENT

- Potassium iodide crystals
- Sulphuric Acid 25% solution
- Ammonium molybdate 3% solution
- Starch indicator (1% sol. of soluble starch)
- Sodium thiosulfate 0.1N

ANALYTIC METHODOLOGY

Sample 10 mL of SECODES AKTIV solution in a 300mL flask; add 20 mL of 25% Sulphuric acid. Add a pinch of potassium iodide and 1 mL of 3% ammonium molybdate and let sit for 1-2 minutes. Titrate the solution with a N/10 solution of sodium thiosulfate until the colour turns pale yellow. Then add around 1 mL of 1% starch indicator (the solution will turn dark blue) and continue to titrate with the N/10 sodium thiosulfate solution until the blue colour disappears.

% SECODES AKTIV Concentration Calculation = mL sodium thiosulfate 0.1N x 0.064.

SECODES AKTIV SANITIZING CAPACITY (according to AFNOR NF T 72-151 method)

CONCENTRATION	0.2%	0.5%	1%
TEMPERATURE	20°C	20°C.	20°C.
TYPE OF GERM	elimination in minutes		
Escherichia coli	5	5	5
Staphylococcus aureus	5	5	5
Streptococcus faecalis	5	5	5
Pseudomonas aeruginosa	5	5	5
Salmonella typhimurium	5	5	5
Saccharomyces cerevisiae	5	5	5
Saccharomyces diastaticus	5	5	5
Candida albicans	5	5	5
Aspergillus versicolor	ND	ND	5
Penicillium expansum	5	5	5
Bacillus cereus	ND	ND	5
Bacillus subtilis	ND	ND	

STORAGE INFORMATION

Avoid hits, inappropriate packaging manipulations that could cause product leakages.

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Protect from frost, store away from heat sources and keep the recipients well closed. The product is not flammable.

For more detailed information on product manipulation and respective disposal of solutions please refer to the security data sheet according to the D.M. 28 January 1992.

## PACKAGING

25 kg Plastic tank

10 kg Plastic tank