



Sterilforte

Disinfectant based on 15% peracetic acid.

Sterilforte:

- concentrated disinfectant
- fast acting, stabilized peracetic acid based disinfectant – do not foam and is easily rinsed off;
- works in low temperatures;
- suitable for use in soft or hard water;
- works not on a selective basis, so micro-organisms can not adapt to disinfectant **Sterilforte**;
- product is effective against all types of microorganisms (bacteria (as well as against *Listeria monocytogenes*), yeast, fungi, spores, viruses);
- versatile and effective CIP disinfectant, can be used in breweries, dairies, soft drinks plants and throughout the processed food industry;
- **Sterilforte** is used for final disinfection;
- powerful oxidising action also assists stain removal and deodorises;
- low environmental impact, breaks down to materials that are innocuous for waste water treatment.

Content of product

Submitted in safety data sheet.

Instructions for use

Sterilforte concentrations is used from 0,04 % w/w to 2,00 % w/w (0,03 to 1,80 % v/v), depending on the area of use. After washing process, the surfaces should be thoroughly rinsed off with water in accordance with established for food industry standards. For cold disinfection, **Sterilforte** can be used under circulation, spray or immersion method. For cold disinfection of tanks, separators, thermal plants, pipelines – the most appropriate is circulation and spray method. Good ventilation is required when spray method is being used. During the disinfection of filtration and reverse osmosis equipment - the concentration must not exceed 0,1 %, it is necessary to comply strictly with the membrane manufacturers' cleaning and disinfection recommendations. For water disinfection – **Sterilforte** must be used during the last rinsing section in bottle washing machines. The solution's activity decreases if disinfection is carried out after an acid wash or disinfected surfaces are dirty; so there is a need to strengthen the solution. The concentrate can be dosed manually, but it is safer to use an automatic JSC "BS Chemical" recommended dosing system.

Dozing depends on the temperature and contact time:

Operating mode	Instructions for disinfect at ambient temperatures
Disinfection (CIP)	Before disinfection Sterilforte working solution should be rinsed with water, disinfect the surface. If you disinfect surfaces contaminated with organic and inorganic impurities, they should be washed with alkaline and/or acidic



	<p>detergent. Sterilforte solution dose automatically or manually to the CIP cleaning contour or in a tank. Recommended working concentration of 0,15 – 0,3% (depending on the solution temperature and the duration of disinfection). If Sterilforte solutions are used again or circulated in a closed circuit, it is necessary to check the peracetic acid quantities in the solution at least every 2 - 4 hours (depending on the intensity of solution, contamination, ambient temperature). Recommended disinfection time 5 - 15 min. After disinfection rinse the surface with drinking water. If there is any doubt about the rinsing water microbiological quality, Sterilforte solution to rinse off is not recommended.</p>
Manual, spray, immersion method of disinfection	<p>Before disinfection Sterilforte working solution should be rinsed with water, disinfect the surface. If you disinfect surfaces contaminated with organic and inorganic impurities, they should be washed with alkaline and/or acidic detergent. Sterilforte solution dose automatically or manually in an aerosol sprayer, foam generator or tank for immersion. Recommended working concentration from 0,07 to 0,3% (depending on the duration of disinfection). Recommended duration of disinfection under spray method is 5 - 15 minutes; disinfection duration under the immersion method is 6-12 hours. After disinfection rinse the surface with drinking water. If there is any doubt about the rinsing water microbiological quality, Sterilforte solution to rinse off is not recommended.</p>
Indoor air aerosol disinfection	<p>Sterilforte solution dose automatically or manually in an aerosol sprayer. Recommended concentration of working solutions 0,15 %. Then the fog generator is turned on and the room is filled with Sterilforte spray. For a better aerosol distribution in large spaces is recommended to change the location of the aerosol generator in a room. Recommended duration of disinfection under aerosol method is 15-30 min.</p>
Bottle disinfection on aseptic packaging line	<p>Plastic bottles are disinfected on an automatic line before bottling. Sterilforte solution is dosing automatically straight into rinsing water flow. Recommended concentration is 0,7 – 1,0 %, duration time 5 – 10 s. After disinfection, bottles are rinsed off with drinking water.</p>
Rinsing water disinfection in bottle wash machines and rinsing equipment	<p>Sterilforte solution is dosing automatically or manually straight into rinsing water flow or in a tank. Recommended concentration of working solution is 0,005 – 0,01 %. If Sterilforte solutions are used again or circulated in a closed contour, the peracetic acid quantity in the solution must be checked every 2-4 h (depending on the intensity of the solution, contamination, ambient temperature).</p>
Water treatment for cooling poultry slaughter	<p>Poultry slaughter is cooled on automatic line. Sterilforte solution is dosed automatically or manually straight into rinsing water flow or in a tank. Recommended concentration of working solution is 0,1 – 0,3 %.</p>
Surface disinfection in starge facilities, equipment, transport used for animal and poultry cultivation.	<p>Recommended to spray cleaned surface, if the concentration of Sterilforte is from 0.1 to 0.5%, the exposure time from 30 minutes to 120 minutes. If Sterilforte concentration is 0,3%, aerosol disinfection must be done.</p> <p>Animal transportation equipment: already cleaned trucks and trailers rinse and spray with 0.1 to 0.5% Sterilforte.</p>

<p>Feedstuff production equipment, footwear disinfection.</p>	<p>For feedstuff storage and production facilities: disinfect washed surface with a 0.1 to 0.5% Sterilforte solution, after 15 - 30 minutes contact, wash the surface with drinking water.</p> <p>Feedstuff transportation equipment: after the trucks and trailers are washed, rinse and spray with 0.1 to 0.5% Sterilforte. After 5 - 15 minutes contact, wash the surface with drinking water.</p> <p>Shoes immersion: use 0.5 - 1.0% Sterilforte solution, the solution must be changed regularly (2-3 times a week).</p>
<p>Milking equipment, milk lines and cooling tanks disinfection.</p>	<p>Recommended Sterilforte concentration to be between 0.3 - 0.5%, depending on the water hardness.</p>
<p>Milking equipment brushes, cups, wipe disinfection.</p>	<p>Recommended Sterilforte concentration to be between 0.3 - 0.5%, depending on the water hardness.</p>

Recommended areas of use:

CIP, bottle rinsing, aerosol disinfection (cold and hot fog), immersion in bath (disinfection of inventory and other parts), disinfection of surfaces using spray method (foam equipment, spray guns), disinfection of tunnel wash machines (adding to the final rinse section), as an additive to acidic detergents (combination of cleaning and disinfection, example, during CIP washing or separators' and etc.).

Information for safe use

Sterilforte – oxidizing, corrosive with hazardous effects. It is important to prevent the contact with combustible materials, since the product is flammable. After the contact with skin and if swallowed, causes severe burns, toxic inhalation. Wear suitable protective clothing, suitable gloves and eye (face) protection. Do not mix with other chemical materials. Keep tightly closed in original packaging, away from direct sunlight and sudden changes of the temperature. The temperature in storage facilities must be -10°C ÷ +20°C. In an hour it is necessary to rinse the detergent from the surfaces. However it is not necessary to rinse off the detergent in beer and wine production industry. Under recommended concentration and temperature, **Sterilforte** is safe for all types of stainless steel surfaces commonly found in food industry. Product is not suitable for copper, aluminum and other light metal surfaces. When there is uncertainty, it is recommended to test **Sterilforte** on specific metals before using it longer periods of time.

Methodology of determining concentration

Submitted separately.

Physical and chemical properties

Form	Liquid
Color	Clear, colourless
Odor	Specific (strong)
pH, 1 %, 20-25°C	2,5 – 3,5
pH, 100 %, 20-25°C	< 1
The relative density, g/cm ³ , 20°C	1,10 – 1,16



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Boiling point, °C	> 100
Flash point (closed cup), °C	68÷ 81

Best before

12 months from date of production.



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