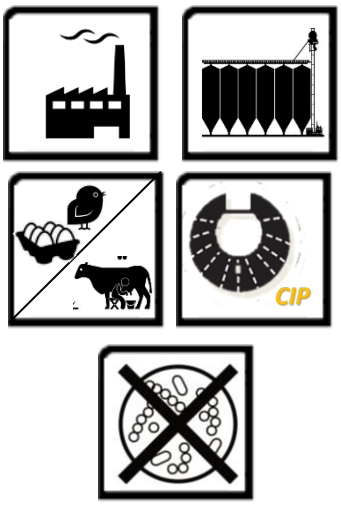
BIS PER S

Liquid acid disinfectant based on active oxygen

ACTIVE SUBSTANCE : peracetic acid(EC: 201-186-8) 4,5-6,5 g/100g; hydrogen peroxide, (EC: 231-765-0) 25-30 g/100g
INGREDIENTS: acetic acid(EC: 200-580-7)



Application field:
It is intended for disinfection of equipment and devices, which is resistant to acidic oxidizing solutions, in all branches of the food industry: beverage industry (breweries, mineral water bottling plants, juice bottling plants, alcoholic beverage bottling plants, etc.), meat industry, milk industry, confectionery industry etc.; areas where animals live; in the paper and textile industry as well as surfaces and devices intended for public health.
It is also used for: "sterilization" of contaminated biomass intended for fermentative production; remediation of persistent contamination with yeasts, molds, algae, thermophilic bacteria (e.g. destruction of algae in cooling systems); sterilization of ion exchangers and "active sludge" that remains after wastewater treatment; disinfection of egg shells, fruits and vegetables and prevention of mold growth during storage.

pH			
1	2	3	4

Properties:
Microbicidal activity is based on the chemistry of peroxyacetic acid. As a strong oxidant, peroxyacetic acid breaks down the cell membranes of microorganisms (breaks the –SH and –S-S bonds in cell membrane enzymes), oxidizes the enzymes themselves and thus completely destroys the biochemistry of microorganisms. The destruction of proteins prevents the possibility of resistance of microorganisms to peroxyacetic acid. A wide range of microbicidal activity (bactericide, sporicide, fungicide, virucide) is ensured under undemanding disinfection conditions: low temperatures of working solutions (5-20°C), short contact time (just a few seconds) and low usable concentrations (0.1-2 %). The solubility of the agent is complete, and the rinsing is quick and easy. The hardness of the technological water does not affect the microbicidal effectiveness.
The disinfection process (required concentration, temperature and exposure time) depends on the requirements for the reduction of microbiological flora that is present on the surface.
Density ..... 1120 kg/m^3

Correct dosing reduces costs and negative impact on the environment.
For professional use only.

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Corrosivity:

Materials suitable for storing the undiluted agent: passivated stainless steel, polytetrafluoroethylene (PTFE) and glass; for a limited time both PE and PVC. Working solutions do not act aggressively on aluminum, polystyrene, teflon, enamel and rubber surfaces. Not recommended for cast iron, copper and brass. Concentrate dosing devices must be made of acid-resistant materials (PVC, PVC or Teflon).

Product application:

For regular disinfection of processing equipment in the food industry, it is applied in a concentration of 0.1 - 0.5% (50 - 250 ppm PAA), cold for 10 - 20 minutes. Remediation of persistent contamination by resistant microorganisms is carried out with a 0.5 - 1% solution (250 - 500 ppm PAA), temperature 30-40°C for 20-30 minutes. If necessary, the working concentration of the agent can be increased up to 5% (2500 ppm PAA).On farms (cattle, poultry, pig farms, etc.) it is applied by spraying or dipping in a concentration of 0.1-1% in a very short time of action (a few seconds). For desbarriers in a concentration of 1-2% (change solutions daily). In medical institutions, the usable concentrations are determined depending on the type and method of use, surface contamination, working temperature, etc.

Work concentration

Iodometry *- Titration*

In a laboratory beaker of 500 ml put a 1 cm thick layer of crushed ice, add 25 ml of glacial acetic acid and 10 ml of sample (working solution of BIS PER S). Mix the contents well and add 10 ml of 0.1 N solution KJ.
Titrate with 0.1 N solution $Na_2S_2O_3$ until discoloration.
U = ml of used $Na_2S_2O_3$
U x 0,038 = % peracetic acid
U x 0,76 = % **BIS PER S**

Safety advice and storage instructions

Do not mix the product with other cleaning agents. Complete instructions for handling and disposal of this product can be found in the safety data sheet. Keep in original, tightly closed containers. Store separately from metals, alkalis, acids, salts of heavy metals, metal oxides, reducing substances, organic and other flammable substances. Protect from heat sources and direct sunlight. Prevent freezing.

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