TECHNICAL DATA SHEET

septoforte® 30

cleaner-disinfectant in food and feed areas
cleaner-disinfectant and algaecide not intended
for direct application to humans or animals

Physicochemical characteristics

Appearance	: light yellow, clear liquid
Density (20 ^{O}C)	: 1,05-1,15 g/cm^3
pH (1%)	: 7-8
Ingredients	: contains quaternary ammonium compounds
Non active ingredients	: phosphate salts, non ionic surfactants

Application field

The product septoforte® 30 is used by professional users and general public as:
• cleaner-disinfectant in food and animal feed areas
• cleaner-disinfectant and algaecide not intended for direct application to humans or animals

Advantages

Septoforte® 30 cleans and disinfects in one phase. Does not damage the usual metals and plastics. It can be used with immersion through night. Due to the quaternary ammonium compounds that contains, has a very good microbicidal capacity.

Application method for food and feed areas

Septoforte 30 is used with recycling, immersion or spraying. The dilution of the product depends on how clean the surfaces are, which are going to be disinfected. It is used to disinfect equipment, containers, drinking utensils, surfaces or piping related to the production, transport, storage or consumption of food or feed (including drinking water) for humans and animals.

It is used in products used to infuse materials that may come into contact with food.The dilution of the formulation depends on how clean the surfaces to be disinfected are.

If the surfaces have been cleaned good, it is recommended a dilution of 0,4% for staphylococcus aureus and 2,0% for pseudomonas aeruginosa. The action time is 15 min. If the surfaces have not been cleaned before, it is recommended a dilution of 0,8% for the staphulococcus aureus and 12,0% for pseudomonas aeruginosa. The contact time is 15 min.

After the disinfection stage rinse thoroughly with water until the remnants of the disinfectant are being removed.

Cleaner-Disinfectant and algaecide not intended for direct application to humans or animals

It is used to clean and disinfect surfaces, materials, equipment and furniture items that do not come into direct contact with food or animal feed. Areas of use include, but are not limited to, swimming pools, aquariums, bathing water and other air conditioning systems and walls and floors of private, public and industrial spaces and others areas of professional activity, such as catering facilities, hotels, health facilities, gyms, hair salons, beauty salons, physiotherapists, dentists, doctors' offices, and on surfaces of private clinics and public hospitals. Also in schools, educational institutions, spas, saunas, hammams, massage parlors, butchers, fishmongers, bakeries, shipping, car washes, cafes, pizzerias, pastry shops.
In products used to disinfect air, water not intended for human and animal consumption, chemical toilets, sewage, hospital waste and soil. In products used as algaecides for disinfection in swimming pools, aquariums and other waters and for the restoration of building materials. In products intended for incorporation into textiles, fabrics, masks, dyes and other items or materials for the purpose of manufacturing treated articles with disinfectant properties. It is applied to floors, work surfaces, tools, machinery, sanitary areas, ice machines, objects, tools made of metal, glass, plastic, porcelain, flexible, rigid and heat-sensitive parts materials. Also changing rooms, car cabin, chairs, boats, trash cans, carpets, carpets, shade awnings, knives, forks, wettex, sponges, mops, glasses, dishes, utensils, hotel rooms, washing machines, plates, decorative stainless steel, industrial refrigerators, food vending refrigerators, food machines, walls, doors, knobs, shelves, switches, cheese/deli cutters, waiter transfer trays, teflon cutting boards, pastry/bakery displays, drain grates, price tags , metal gloves, meat grinders/band saws, refrigerator vent filters, chefs, hoods, juicers.

The dilution of the formulation depends on how clean the surfaces to be disinfected are.

If the surfaces have been thoroughly cleaned, a dilution of 0.4% for staphylococcus aureus and 2.0% for pseudomonas aeruginosa is recommended. The action time is 15 min. If the surfaces have not been previously cleaned, a dilution of 0.8% for staphylococcus aureus and 12.0% for pseudomonas aeruginosa is recommended. The action time is 15 min.

After the disinfection stage, there is a very good rinsing with potable water until all the residues of the disinfectant are removed.

The concentration implementation and the contact time of septoforte® 30 are: given the fact that water of hardness 17 ^{0} dH is used and the surfaces, which are going to be disinfected, have been infected with 10^{7} of microorganisms/ml, and surfaces are clean.

Type of organism	Contact time in min	septoforte® 30	
		for dirty surfaces	for clean surfaces
Staphylococcus aureus	5 15 30 60	2,0 0,8 0,6 0,6	0,4 0,4 0,4 0,24
Escherichia coli	5 15 30 60	4,0 2,0 2,0 0,8	0,6 0,4 0,4 0,4
Pseudomonas aeruginosa	5 15 30 60	20,0 12,0 12,0 12,0	2,0 2,0 2,0 2,0

Table I :
Minimum inhibitory concentrations in mg/l of septoforte® 30, in a nutritive solution contaminated with various micro-organisms.

Gram-positive bacteria	septoforte® 10 (mg/ℓ)
Bacillus mycoides Bacillus subtilis Enterobacter aerogenes Staphylococcus aureus Listeria monocytogenes	80 28 160 40 40
Gram-negative bacteria	
Escherichia coli salmonella typhi Proteus mirabilis Pseudomonas aeruglnosa Pseudomonas fluorescens	160 80 400 2800 1600
Yeasts and mould fungi	
Candida albicans Rhodotorula mucilaginosa Saccharomyces cerevisiae Torula rubra Alternaria atternata Aspergillus niger Mucor racemosus Penicillium glaucum Trichophyton mentagrophytes	400 80 800 480 600 1600 160 160 400

Table II:
Qualitative suspension tests in disinfectant dilutions of septoforte® 30 contaminated with 10^7 organisms per ml.

Test organism	Time (min)	Water 17 °dH		Deionized water	
		Without serum loading	Without serum loading	Without serum loading	Without serum loading
		% septoforte® 30			
Staphylococcus aureus	5 15 30 60	0.2 0.2 0.2 0.08	2.0 0.8 0.6 0.6	0.2 0.06 0.06 0.06	0.6 0.6 0.6 0.6
Escherichia coli	5 15 30 60	>0.8 0.6 0.2 0.2	4.0 2.0 2.0 0.8	0.6 0.4 0.2 0.2	2.0 2.0 0.8 0.4
Pseudomonas aeruginosa	5 15 30 60	4.0 2.0 2.0 2.0	20.0 12.0 12.0 12.0	0.4 0.4 0.4 0.2	20.0 8.0 6.0 4.0

- The table shows the application concentrations of septoforte® 30 in % which completely eliminate the test organisms after 5, 15, 30 and 60 minutes.
- Serum loading was effected using 10% albumin and 1% yeast extract.

Table III:
Qualitative suspension tests in dilutions of septoforte® 30, contaminated with 10^3 organisms per ml

Test organism	Time (min)	Water 17 °dH		Deionized water	
		Without serum loading	Without serum loading	Without serum loading	Without serum loading
		% septoforte® 30			
Staphylococcus aureus	5 15 30 60	0.056 0.040 0.024 0.024	0.4 0.4 0.4 0.4	0.020 0.004 0.004 0.004	0.4 0.4 0.4 0.4
Escherichia coli	5 15 30 60	0.08 0.04 0.04 0.04	0.6 0.4 0.4 0.4	0.020 0.020 0.008 0.008	0.4 0.4 0.2 0.2
Pseudomonas aeruginosa	5 15 30 60	0.4 0.4 0.4 0.4	2.0 2.0 2.0 2.0	0.20 0.08 0.06 0.60	2.0 2.0 0.8 0.6

- The table shows the application concentrations of septoforte® 30 in %which completely eliminate the test organisms after 5, 15, 30 and 60 minutes.
- Serum loading was effected using 10% albumin and 1% yeast extract.

The use of the product is allowed only in units that have biological and chemical cleaning system. After a leak or an extract of dense product use absorptive material and rinse well the remnants with water. Avoid the release of the product in water or in drain system. For its inactiveness use sodium sulphite or another inhibitor.

The current conditions during the application of the product are beyond the control of our company. For this reason, it is the user's responsibility to make sure that it is suitable for the intended application.