



A Newest Method Of Hygiene Management

Weakly Acid Hypochlorous Acid Water Generator

Bring peace of mind to our lives

Harmless to people and environment

Hygiene management with hypochlorous acid water



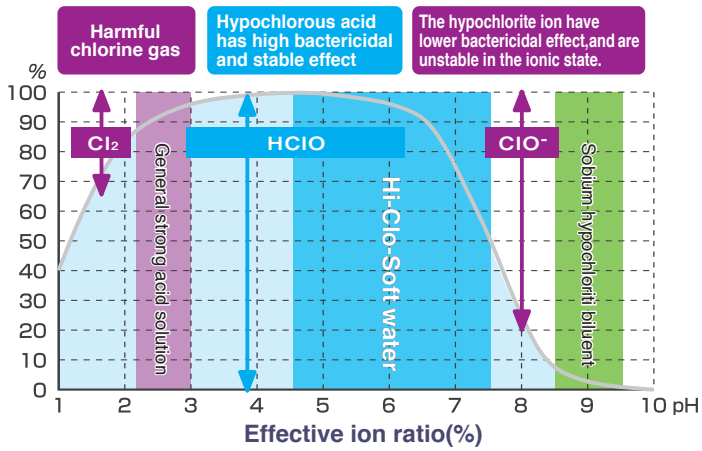
Properly Guard PG-3.0

Product name	.....	Properly Gard	pH value	.....	5.0 ~ 7.0
Model	.....	PG-3.0	Effective concentration	.....	10 ~ 50ppm
Size	.....	W230×H310×D190mm	Operation mode	.....	Continuous operation mode
Weight	.....	About 3.5 kg	Additive solution container	.....	1.5 L tank
Available water amount	.....	About 4.5 L/min			



High sterilization power, Safety, Low cost

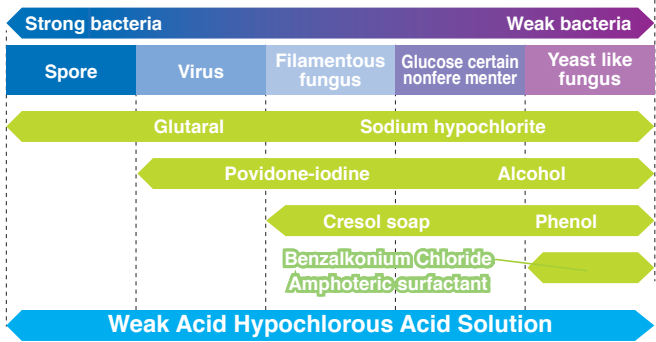
High sterilization power



Proportion of available chlorine in changes in pH values

By changing the pH value from modicum to weak acid the disinfectant has a strong sterilization

Antimicrobial Spectrum of Representative Disinfectants



Disinfectant force 80 times (theoretical value)

the main component contains a large amount of hypochlorous acid, which is 80 times more fungicidal than the example of hypochlorite

Experimental bacteria	1ml Aerobic plate count			
	Initial microbial content	After 1min	After 3min	After 5min
E.coli	1.9×10^6	<10	<10	<10
	1.9×10^6	<10	<10	<10
	1.9×10^6	—	—	9.5×10^5
Staphylococcus aureus	1.0×10^6	<10	<10	<10
	1.0×10^6	<10	<10	<10
	1.0×10^6	—	—	8.2×10^5
vibrio parahaemolyticus	1.0×10^6	<10	<10	<10
	1.0×10^6	<10	<10	<10
	1.0×10^6	—	—	6.5×10^5
Bacillus pycocyaneus	1.4×10^6	<10	<10	<10
	1.4×10^6	<10	<10	<10
	1.4×10^6	—	—	8.3×10^5
streptococcus	1.9×10^5	<10	<10	<10
	1.9×10^5	<10	<10	<10
	1.9×10^5	—	—	3.4×10^5

Experimental bacteria	1ml Aerobic plate count			
	Initial microbial content	After 1min	After 3min	After 5min
Bacillus cereus	1.6×10^5	1.1×10^2	<10	<10
	1.6×10^5	2.0×10^5	1.5×10^5	7.4×10^4
	1.6×10^5	—	—	2.0×10^5
Bacillus subtilis	4.3×10^5	3.0×10^5	2.0×10^3	<10
	4.3×10^5	4.1×10^5	4.2×10^5	3.8×10^5
	4.3×10^5	—	—	4.4×10^5
Candida albicans	2.1×10^6	<10	<10	<10
	2.1×10^6	2.5×10^3	<10	<10
	2.1×10^6	—	—	3.2×10^6
Aspergillus niger	1.1×10^5	7.5×10^3	3.4×10^3	4.4×10^2
	1.1×10^5	1.7×10^5	1.4×10^5	5.8×10^4
	1.1×10^5	—	—	1.8×10^5

Hypochlorous acid	Residual chlorine 50ppm pH6.0
Sodium hypochlorite	Effective concentration 200ppm
Normal saline	

Initial microbial content : Bacteria before exposure to various disinfectants
<10 : below testable limits
— : not tested

Experimental authority:(C)Food and Drug Safety Center Hatano Research Institute

Safety

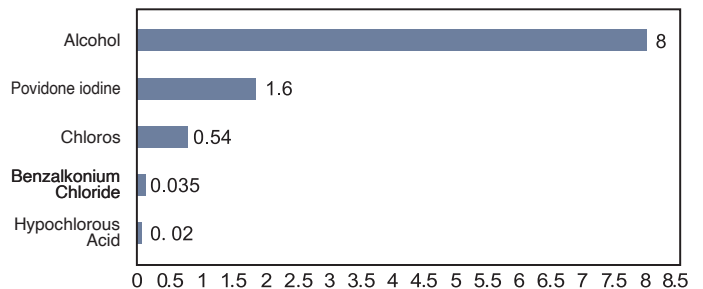
Animal Safety Study Report

Single oral toxicity test (acute toxicity test)	.....	No abnormality
Primary skin irritation study	.....	Free irritation
Skin cumulative irritation study	.....	Free irritation
Eye irritation test	.....	Free irritation
Sensitization testing	.....	Free Sensitization
Colony inhibiting test (Cell toxicity test)	.....	No problem
Sudden variability experiment (immunogenicity variation test)	.....	Without induce-effect

Experimental authority:(C)Food and Drug Safety Assessment Center

Low cost

Cost comparison of various disinfectants(in yuan/L)



Manufactured by OSG Corporation Co., Ltd.

OSG OSG Corporation Co., Ltd.

Tokyo sales headquarters office

Mita43MT Bldg.7F, 3-13-16, Mita, Minato-ku, Tokyo, 108-0073, Japan

Osaka head office

1-26-3, Temma, Kita-ku Osaka-shi, Osaka, 530-0043, Japan

<https://www.osg-nandemonet.co.jp/>



機能水研究
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