

Clean & Care

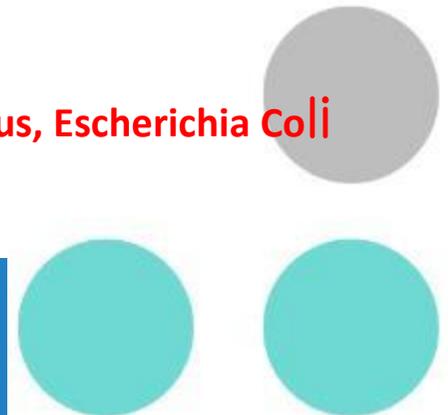
FDA Approval		
NDC number	Product Name	Capacity
75534-0001-1	Clean Cleaner	500 ml

Kills 99.999% of K. Pneumoniae, MRSA, C. Albicans, Staphylococcus Aureus, Escherichia Coli



www.gmckorea.net
Good Morning Corporation

15, Maebong-Ro 13Beon-Gil, Seowon-Ku, Cheongju-Si, Chungbuk 28698 Korea
Phone +82 43 212 9320 Fax +82 43 212 9321 Email steveshim@gmckorea.net



Sterilize all Harmful Germs 99.9%!

Safely, Easily, At Once!

Sterilization & Deodorization



Powerful
Deodorant Effect



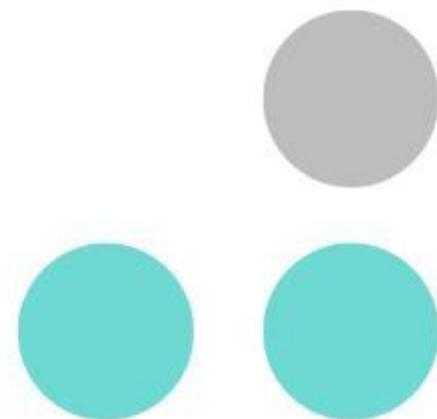
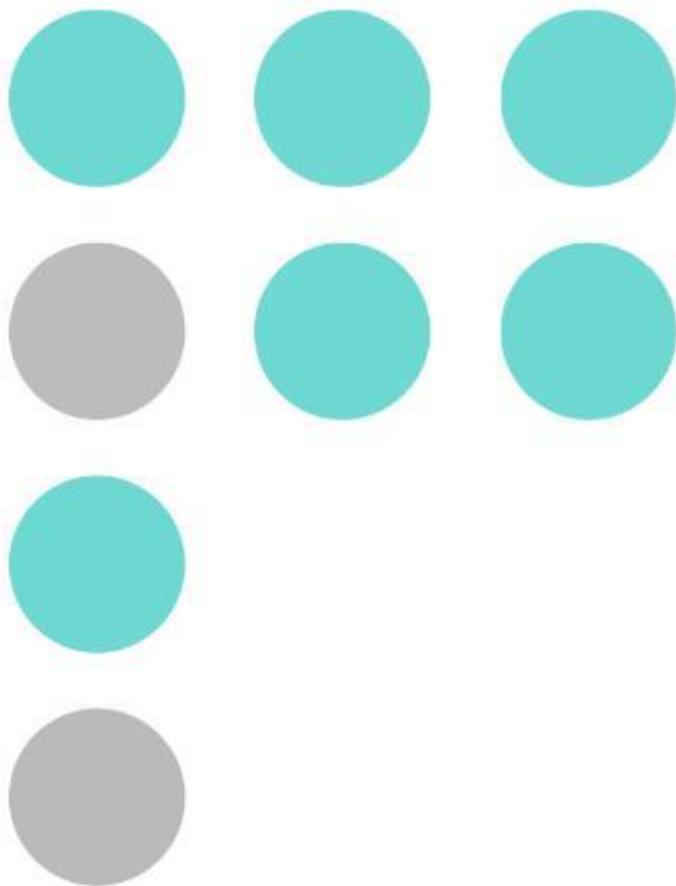
Safe Sterilization
Disinfection



Eco-Friendly
Products



Hygienic
Management

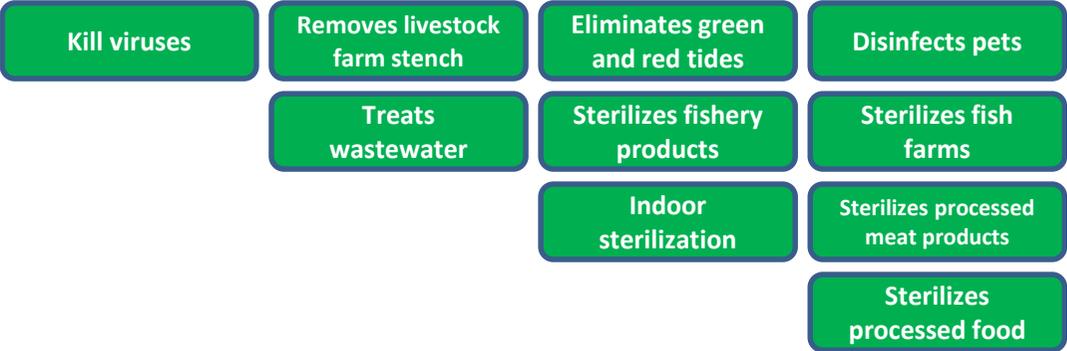


1. Product Features

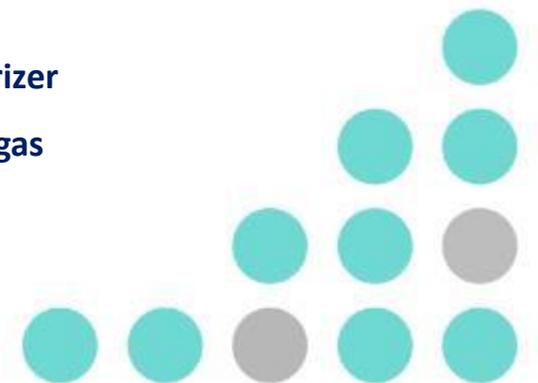
- Environmentally-friendly products
- **Kills 99.999% of K. Pneumoniae, MRSA, C. Albicans, Staphylococcus Aureus, Escherichia Coli**
- **Eliminates viruses such as MRSA, pneumococcus, candida**
(destroys viruses, blocks secondary variation/mutation, removes the root cause)



1000ml 500ml



The next generation new material oxygen sterilizer/disinfectant/deodorizer
that immediately decomposes pollutants to water and carbon dioxide gas



2. Product Features



- Destroys all pathogens, spores, fungus, viruses, bacteria
- Innocuous to the human body, animals, and plants. Does not generate secondary pollutants
- Has a strong oxidizing power as reactive oxygen species
- Quickly sterilizes both at low and high temperatures. The sterilization property lasts 50 times longer than other regular sterilizers.
- Immediately kills 100% of germs, bacteria, fungus, viruses, food poisoning bacteria, epidemics.
- Decomposes organic matter (pollutants) and oxidizes to carbon dioxide gas and water, leaving no residues.

Delivers the same sterilization effect as done at high temperatures (120 degrees and higher)

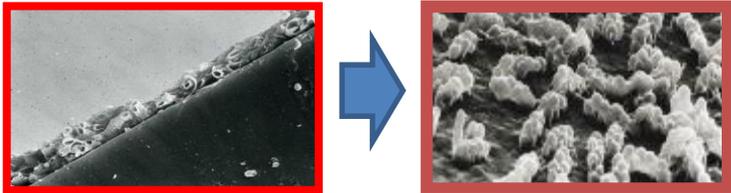
- Removes bacteria and viruses that general chlorine disinfectants cannot do.

(eliminates the root cause, bacteria, spores, fungus, tetanus, anthrax)

- Helps reduce stench, control diseases, and improve the feeding environment for livestock farms such as pig farms

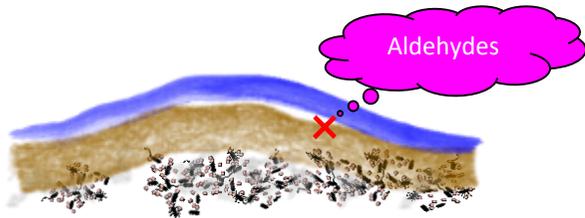
3. Technical Features

○ BIOFILM



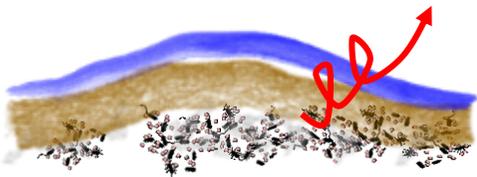
- Bacteria accompanying Biofilm are 150 – 3,000 times more resistant to free chloride disinfectants than bacterial aerosols.
- Unless the root cause is destroyed by decomposing bacteria, they began to multiply within a short time.

○ Aldehyde disinfectant and BIOFILM



- Aldehydes have long been used as disinfectants.
- However, aldehydes cause metamorphism when reacting to a large amount of protein on the surface layer of Biofilm, which blocks aldehydes from penetrating inside and working as a disinfectant. Instead of killing them, such aldehydes make bacteria and viruses grow even stronger, as well as prone to mutation, which poses a greater risk.

○ WS product and BIOFILM



- Peroxide, powerful oxygen generator: disinfection/sterilization for longer hours. After exfoliating protein and eliminating biofilm, peroxide directly kills bacteria and viruses.
- Peracetic acid: even when there are organic matters, strong disinfection/sterilization within a short time

4. Applications

- Water treatment (sewage treatment facility, water supply system, swimming pool, industrial water, drinking spring water, livestock excrements treatment, orchards, etc.) → Disinfection/sterilization of algae, bacteria, germs
- Crowd facilities (housing facility (apartment complex), education, transportation, airline facilities, amenities, etc.) → Prevention and control of viruses, epidemic, waterborne infection, pathogenic bacteria
- Agriculture, livestock, fishery industry (pest control/disease prevention for livestock farms, freshwater fish farms, street trees, greenhouse farms) → Disinfection/sterilization of fungus, foot-and-mouth disease, avian flu, anthrax.
- School meal service and food industry (food production facility, food service facilities) → Disinfection/sterilization of vibrio bacteria, food poisoning bacteria, salmonella, E. coli. Prevention of bacterial growth in food.
- Special control/prevention (sterilization/destruction/removal of collective bacteria)



5. Test Report

BEYOND ASIAN HUB, TOWARD GLOBAL WORLD



TEST REPORT

98, Gyoyukwon-ro, Gwacheon-si, Gyeonggi-do, 13810, Korea TEL 82-63-214-2960 FAX 82-63-214-2964

Report No : TBK-2020-001032 Receipt Date : 2020.02.20
 Representative : YOO KI SANG Test Completion Date : 2020.03.20
 Company name : WS CO.,LTD
 Address : 257-29 wanjusandan2ro Wanju Jeollabuk-do KOREA

Sample name : CleanCleaner

Test Results

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Bactericidal test(<i>K. pneumoniae</i>)	Log reduction	-	> 5.57	ASTM E2315-16
Bactericidal test(MRSA)	Log reduction	-	> 5.61	ASTM E2315-16
Yeasticidal test(<i>C. albicans</i>)	Log reduction	-	> 5.51	ASTM E2315-16 (Apply correspondingly)



BEYOND ASIAN HUB, TOWARD GLOBAL WORLD

TEST REPORT

98, Gyoyukwon-ro, Gwacheon-si, Gyeonggi-do, 13810, Korea TEL 82-63-214-2960 FAX 82-63-214-2964

Report No : TBK-2019-007315 Receipt Date : 2019.10.17
 Representative : YOO KI SANG Test Completion Date : 2019.11.18
 Company name : WS CO.,LTD
 Address : 257-29 wanjusandan2ro Wanju Jeollabuk-do KOREA

Sample name : CleanCleaner

Test Results

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Bactericidal test(<i>E. coli</i>)	-	-	≥ 99.999 %	Notice No. 2019-88 of the Ministry of Food and Drug Safety
Bactericidal test(<i>S. aureus</i>)	-	-	≥ 99.999 %	Notice No. 2019-88 of the Ministry of Food and Drug Safety

* Test condition
 - Concentration of the test solution(Final concentration): 0.4 % (v/v)
 - Reaction temperature: (20 ± 1) °C
 - Reaction time: 5 minutes
 - A final concentration of the interfering substance: Albumin 0.3 g/100 mL

** Test strains
 - Escherichia coli ATCC 10536
 - Staphylococcus aureus ATCC 6538

Attachment : Test report
 - Usage of Report : SUBMITTED PURPOSE FOR



BEYOND ASIAN HUB, TOWARD GLOBAL WORLD

TEST REPORT

98, Gyoyukwon-ro, Gwacheon-si, Gyeonggi-do, 13810, Korea TEL 82-63-214-2960 FAX 82-63-214-2964

Report No : TPP-2019-003221 Receipt Date : 2019.10.17
 Representative : YOO KI SANG Test Completion Date : 2019.11.01
 Company name : WS CO.,LTD
 Address : 257-29 wanjusandan2ro Wanju Jeollabuk-do KOREA

Sample name : CleanCleaner

Test Results

TEST ITEM	UNIT	SAMPLE	RESULT	TEST METHOD
Pb	mg/kg	-	Not Detected	EPA 3051A, 6010D (Apply correspondingly)
As	mg/kg	-	Not Detected	EPA 3051A, 6010D (Apply correspondingly)
Hg	mg/kg	-	Not Detected	EPA 3051A, Mercury analyzer (Apply correspondingly)
Cd	mg/kg	-	Not Detected	EPA 3051A, 6010D (Apply correspondingly)
Cr	mg/kg	-	Not Detected	EPA 3051A, 6010D (Apply correspondingly)

- Method Detection Limit -
 Pb, Cr : 5 mg/kg
 As : 1 mg/kg
 Cd : 0.5 mg/kg
 Hg : 0.1 mg/kg

- Usage of Report : SUBMITTED PURPOSE FOR(Public Procurement Service)

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Jin ho-hyun

Prepared by Jin ho-hyun
 Tel : 02-2092-3958

Jin-Sik Cho

Reviewed by Jin-Sik Cho
 Tel : 1577-0091(ARS ①-④)

2020.03.20

Korea Testing & Research Institute

President *Kwon Oh-jung*



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Jin ho-hyun

Prepared by Jin ho-hyun
 Tel : 02-2092-3958

Jin-Sik Cho

Reviewed by Jin-Sik Cho
 Tel : 1577-0091(ARS ①-④)

2019.11.18

Korea Testing & Research Institute

President *Kwon Oh-jung*



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Jung Jun Ho

Prepared by Jung Jun Ho
 Tel : 02-2092-3783

Seo Tae-kyo

Reviewed by Seo Tae-kyo
 Tel : 1577-0091(ARS ①-④)

2019.11.01

Korea Testing & Research Institute

President *Kwon Oh-jung*



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