



PCS TORAYSEE™ PROGRAM FOR HEALTH CARE

Toraysee™ cloth a proven technology with years of successful use currently used in greater than 1000 health care facilities and clinics in Japan



Toraysee™ cloth a single cloth can be used all day to repeatedly clean and disinfect frequently touched surfaces and equipment.



Toraysee™ is a cloth that specializes in the removal of organic materials and other dirt and washing without the use of chemicals.



In the cleaning of medical equipment and instruments, priority is given to the “washing” process (removal of organic materials and dirt).

PCS INTRODUCTION OF TORAYSEE™ DAMP CLEANING PROCESS INTO OUR HEALTH CARE PROGRAM HAS MANY BENEFITS

- Synergistic cleaning and disinfecting with NPH 2000 Concentrated Neutral pH Oxidizing Cleaner, Disinfectant
- Neutral pH Oxidizing Disinfectant that decomposes upon drying leaving no residual disinfectant
- Residue depositing disinfectants like quaternary ammonium compounds may be picked up on hands by touching frequently touched surfaces hours and even days after use if not rinsed off

Transmission of disinfectant residues by touching treated surfaces is primarily by hand to mouth transmission rather than skin absorption.

[Evaluating consumer exposure to disinfecting chemicals against corona-virus disease 2019 \(COVID-19\)](#)

Reduced impact on the environment. One Toraysee™ cloth can prevent the wasteful discharge of thousands of single use pre-moistened wipes.

MICROBIAL-CONTROL TREATMENT PROVIDES HYGIENE AND PEACE OF MIND

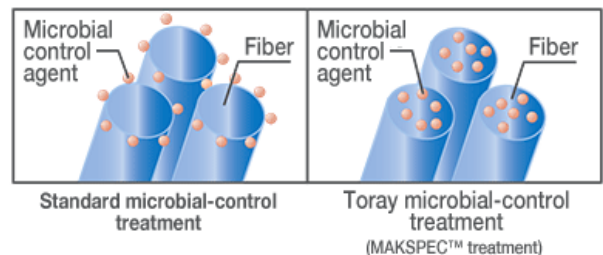
What is microbial-control treatment?

Microbial-control treatment is a treatment that aims to control microbial growth on the cloth’s fibres.

Microbes targeted by microbial-control treatment Mechanism of microbial-control treatment

Test method	JIS L 1902 Liquid culture absorption method	
	Tested microbes	Specific applications
	Staphylococcus aureus	○
	Klebsiella pneumoniae	○
	Methicillin-resistant Staphylococcus aureus	○

☒ Evaluation criteria: Antibacterial activity value > Control cloth multiplication value
 *Comparison between antibacterial/antifouling value and control cloth multiplication value



Compared to ordinary treatment, in which the microbial-control agent adheres to the outside of the fibers, with Toray’s microbial-control treatment (Makspec®), the microbial-control agent infiltrates the fibers, thus sustaining the microbial-control effect.



PCS NPH 2000 CONCENTRATED NEUTRAL PH OXIDIZING CLEANER, DISINFECTANT NO RINSE SANITIZER

KILLS BACTERIA, KILLS VIRUSES, KILLS FUNGI

DIN: 02465582

This product contains hypochlorous acid and sodium hypochlorite is a neutral PH concentrated cleaner, disinfectant and no rinse sanitizer for use on hard non-porous environmental surfaces in health care facilities institutions, schools and hospitality food handling industries where organic soils may be present.

PCS Neutral PH Oxidizing cleaning and disinfecting and sanitization destroys organic soils which include Bacteria, Viruses and Fungi.

DIRECTIONS FOR GENERAL CLEANING

- Dilute 25 mls of NPH 2000 to 1 L of water
- Use diluted solutions to dampen microfibre cloth
- Use damp cloth to wipe surfaces sprayed with disinfectant
- Use to clean floors, walls, windows and damp dusting with microfibre or other cleaning cloths

[Various Concentrations for cleaning/disinfection provided to allow for use of product based on local public health recommendations.]

DIRECTIONS FOR OXIDIZING CLEANING of FREQUENTLY TOUCHED SURFACES.

- To Clean and Oxidize with 0.02% / 200 ppm Neutral pH sodium hypochlorite. Dilute 100 mls of NPH 2000 to 900 mls of water
- Use to clean frequently touched surfaces. Apply to surface with damp cloth or spray on surface and immediately wipe with damp microfibre cloth or rinse or allow to air dry
- To Clean and Oxidize with 0.05% / 500 ppm Neutral pH sodium hypochlorite. Dilute 250 mls of NPH 2000 in to 750 mls of water.
- Use to clean frequently touched surfaces. Apply to surface with damp cloth or spray on surface and immediately wipe with damp microfibre cloth or rinse or allow to air dry
- To Clean and Oxidize with 0.1% / 1000 ppm Neutral pH sodium hypochlorite. Dilute 500 mls of NPH 2000 in to 500 mls of water
- Use to clean frequently touched surfaces. Apply to surface with damp cloth or spray on surface and immediately wipe with damp microfibre cloth or rinse or allow to air dry

DISINFECTION

- To Disinfect with .02% / 200 ppm sodium hypochlorite. Dilute 100 mls of NPH 2000 to 900mls of water
- To disinfect hard non porous surfaces
- Spray or wipe with damp cloth on pre-cleaned surfaces, ensure the surface remains wet for 10 minutes. Allow to air dry or wipe dry

WHEN LOCAL PUBLIC HEALTH RECOMMEND USE OF .05 % / 500 PPM SODIUM HYPOCHLORITE

- Dilute 250 mls of NPH 2000 to 750 mls of water.
- To disinfect hard non porous surfaces. Follow instructions provided by the local health unit.

WHEN LOCAL PUBLIC HEALTH UNIT RECOMMEND USE OF .1% / 1000 PPM SODIUM HYPOCHLORITE

- Dilute 500 mls of NPH 2000 to 500 mls of water.
- To disinfect hard non porous surfaces. Follow instructions provided by local health unit.

TO SANITIZE DIRECT FOOD CONTACT SURFACES

- Dilute 100 mls of NPH 2000 to 1 L of water.
- Spray on pre-cleaned surfaces, insure surface remain wet for 10 minutes.
- Allow to air dry without a rinsing step.



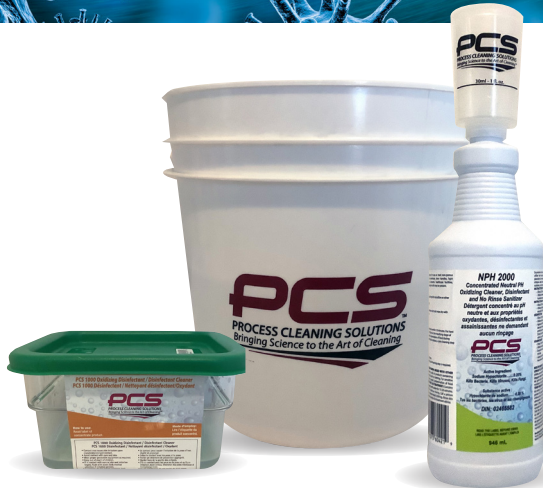
6042-4 • 3.78L 4/CS

6042-6 • 946ML 6/CS

Active Ingredient:
Neutral PH Sodium Hypochlorite..0.20% w/w



TORAYSEE™ NPH 2000 CONCENTRATED NEUTRAL PH DISINFECTANT CLEANING PROCESS AND COST OF USING ONE TORAYSEE™ PER DAY



PROCEDURE

- Add 25 mls of NPH 2000 per liter of water add Toraysee™ cloth to bucket
- Add 250 mls of selected NPH 2000 concentrated disinfectant solution to container. Place lid on container and ensure workplace label attached

To clean with Toraysee™ cloth

- Remove cloth from cleaning solution squeeze liquid from cloth
- You can wipe up to 57,600 square centimetres (62 square feet) before rinsing cloth in cleaning solution

How to reuse

- Saturate Toraysee™ in disinfectant solution and squeeze liquid from cloth.
- Use Toraysee™ dampened with disinfectant solution to clean and disinfect surfaces or rinse in cleaning solution, squeeze out liquid and continue cleaning.

End of use for the day cleaning and disinfecting of Toraysee™

Process Manual Cleaning

- Rinse Toraysee with warm water, squeeze liquid from cloth
- Wash by adding 60 mls of ECOgent cleaner to 1 litre of hot water
- Soak Toraysee™ for a few minutes and squeeze out liquid a few times. RINSE Toraysee twice in fresh warm water
- Squeeze out liquid
- Saturate Toraysee™ in NPH 2000 concentrated disinfectant diluted disinfectant solution.
- Squeeze out excess liquid.
- Allow Toraysee™ time to remain damp with NPH 2000 diluted disinfectant. Then rinse, squeeze liquid from cloth then allow to air dry.

PROCESS

Materials

- Small oblong or square container with lid
 - 946 mL container of NPH 2000 Concentrated Neutral pH Oxidizing Cleaner Disinfectant and No Rinse Sanitizer with PCS portion aid attached
 - 250 mls of NPH 2000 diluted to selected disinfectant strength
 - Bucket with NPH 2000 cleaning solution
 - Toraysee™ Cloth
- Toraysee™ Antimicrobial finishing process has proven to discourage microbial growth on fibres even after 60 hospital laundering cycles.
 - Dampened with water only Toraysee™ has demonstrated the ability to remove greater amounts of ATP, bacteria and viruses than pre-moistened disinfectant wipes and split microfibre cloths.
 - Toraysee™ after soaking in 1% sodium hypochlorite for 5 weeks removed 99.6% of soil as compared to 99.5% before treatment. Demonstrating Toraysee™ maintained excellent removal of organic soils even with prolonged presence of strong concentrations of sodium hypochlorite.

Cost of use - Based on 25 use applications per day. Toraysee™ cloth cost based on sixty days of use.

Cost per day	=	.20
Number of cloths used for sixty days	=	1
Diluted NPH 2000 Disinfecting Solution	=	.23
Cost to clean 60 mls of ECOgent cleaner	=	.43
Toraysee™ / Diluted NPH 2000 cost per day	=	.87
Cost to use for sixty days	=	52.50
Estimate of 12 inch x 12 inch wipes cost based		
on PCS 5000 wipes 25 per day	=	11.00
Number of wipes used in sixty days	=	1500
Cost to use for sixty days	=	660.00
7" x 12" wipes 50 per day estimate	=	12.27
Number of wipes used in sixty days	=	3000
Cost to use for sixty days	=	736.20
Bucket saturation of 25 split microfibre cloths with 3 L of Disinfecting Solution	=	2.76
Cost per day of 25 split microfibre cloths and laundering cost	=	4.17
Cost per day	=	6.93
Number of cloths used in sixty days	=	25
Cost to use for sixty days	=	415.80

ABOUT TORAYSEE™

Toraysee™ is a cleaning cloth made using Toray's ultra-fine fibres.



Reusable Toraysee™ cloth a single cloth can be used all day to repeatedly clean and disinfect frequently touched surfaces and equipment.



Toraysee™ cloths are currently used in more than a thousand health care facilities and clinics in Japan.



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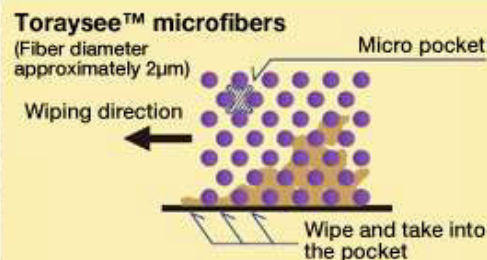
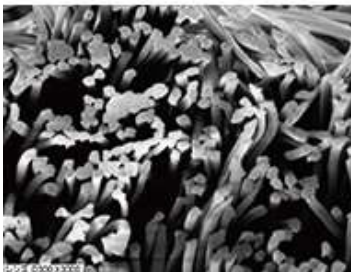


It can be used wet or dry according to requirements, and can also be impregnated with disinfectant.

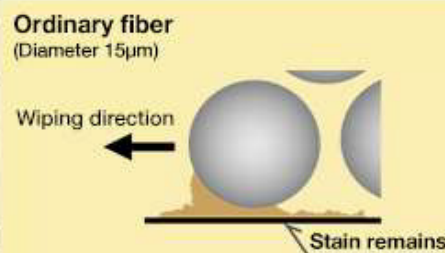
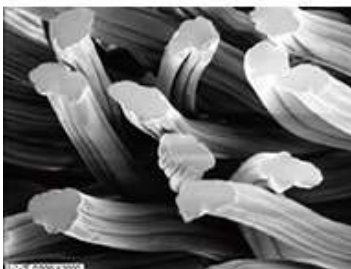
WIPING MECHANISM OF TORAYSEE™

Cleaning the touched surfaces : CONTACT POINT

Toraysee® for CE



Conventional cleaning cloth (ordinary fibers)



Toraysee™ has ultra-fine (2 µm) fibres arrayed at high densities. Even if the first fibre were to leave some oil film behind, the next fibres will be sure to pick it up.

The greater fibre density also creates Micro Pockets that act as efficient reservoirs of the wiped contaminant preventing transfer and recontamination of other surfaces.