

PREVAIL MEDICAL LLC pure HARD SURFACE

Disinfectant, Fungicide, Virucide*and Food Contact Sanitizer with SDC (Silver Dihydrogen Citrate)



PURE-Silver Dihydrogen Citrate (SDC). One of the first new molecules approved by the EPA in 30 years:

- *Fast Kill Times*
- *Effective against Norovirus and multiple drug resistant organisms such as CRE, MRSA and VRE.*
- *NO Hazard Warnings on label. Meets EPA requirements for lowest toxicity; Category IV.*
- *24-Hour Residual Protection, Odorless, Colorless. Meets OSHA Bloodborne Pathogen Standards.*
- *PURE Hard Surface Meets All CDC "Ideal Properties" for a disinfectant.*



**Protect Patients,
Visitors & Employees
Without the use of:
Chlorine, Quats, Alcohol,
Phenols, or Hydrogen Peroxide.**



REDUCE HOSPITAL READMISSIONS with an Infection Prevention Solution from PURE



PURE Meets CDC “Ideal Properties” for a Disinfectant:



Property	Description	PURE Hard Surface
Broad spectrum	Should have a wide antimicrobial spectrum	✓
Fast acting	Should produce a rapid kill	✓
Not affected by environmental factors	Should be active in the presence of organic matter (e.g., blood, sputum, feces) and compatible with soaps, detergents, and other chemicals encountered in use	✓
Nontoxic	Should not be harmful to the user or patient	✓
Surface compatibility	Should not corrode instruments and metallic surfaces and should not cause the deterioration of cloth, rubber, plastics, and other materials	✓
Residual effect on treated surfaces	Should leave an antimicrobial film on the treated surface	✓
Easy to use	Should have clear label directions	✓
Odorless	Should have a pleasant odor or no odor to facilitate its routine use	✓
Economical	Should not be prohibitively high in cost	✓
Solubility	Should be soluble in water	✓
Stability	Should be stable in concentrate and use-dilution	✓
Cleaner	Should have good cleaning properties	✓
Environmentally friendly	Should not damage the environment on disposal	✓

PURE with Patented SDC (Silver Dihydrogen Citrate) A New Generation of Protection

PURE® Hard Surface delivers broad spectrum power to eliminate dangerous pathogens on hard, non-porous surfaces in hospitals, nursing homes, medical clinics, dental clinics, infirmaries, blood banks, pharmacies, laboratories, ambulances, patient transfer vehicles, food service, day care centers, and other critical areas.

PURE® Hard Surface disinfects high-touch hard, non-porous surfaces including examination tables, over bed tables, waiting areas, wheelchairs, bed frames, medical equipment (e.g., stethoscopes, blood pressure cuffs), walls, floors, door handles, food preparation surfaces, counters, sinks, faucet handles, tubs, showers, commodes, toilet and urinal exterior surfaces, handrails, light switch covers, remote controls, tables, equipment tables, lab benches, etc. PURE® Hard Surface also deodorizes unpleasant odors caused by bacteria in hospitals, nursing homes, public restrooms, kitchens, and sink rooms.

Kills germs in as few as 30 seconds**

Conventional brands take up to ten minutes to kill germs

Eliminates more than 30 harmful germs including CRE, Norovirus, MRSA, HIV 1, Hepatitis B, NDM-1, VRE, Acinetobacter baumannii, Hepatitis C, E. coli, Influenza A, Staphylococcus aureus, Salmonella, Listeria, Rhino Virus, Herpes Simplex Type 1, Polio Type 2, Human Corona Virus, H1N1, Rotavirus, and Avian Influenza A**

Broad spectrum antimicrobial activity with fast kill times

Provides ongoing surface protection for up to 24-hours*

Other products kill bacteria only at the moment of application

Assigned lowest toxicity category by U.S. EPA — no hazard warnings on label

Most disinfectants are poisonous and must include hazard warnings

Powered by SDC™ (silver dihydrogen citrate) - the first new generation antimicrobial to be registered with the U.S. EPA in more than 30 years

Compare with “old generation” ingredients such as alcohol, quats or bleach

Odorless — Ideal for use near patients and children

Toxic products have irritating and unpleasant fumes

Non-corrosive and does not irritate skin

Other surface disinfectants can be corrosive, can irritate the skin and must be rinsed

Non-flammable, no VOCs or ozone depleting compounds

Products containing alcohol may be flammable and may contain VOCs or ozone depleting compounds

Meets Sustainability Program criteria

Products that contain toxic, corrosive, irritating or flammable ingredients or that contain VOCs do not meet sustainability standards.

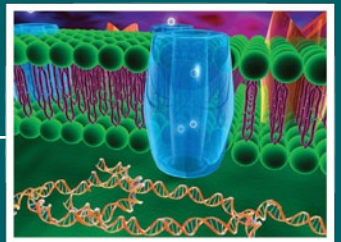
***Refer to product label for a list of organisms.*

**Pseudomonas aeruginosa, Staphylococcus aureus, Salmonella enterica*

How does it work?

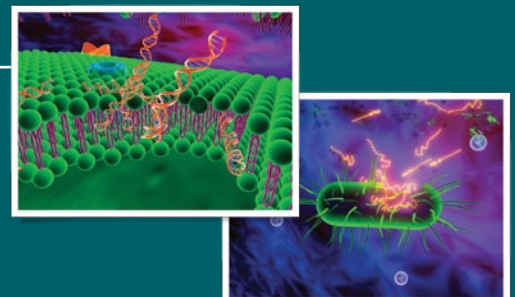
PURE Hard Surface is powered by Silver Dihydrogen Citrate (SDC) a proprietary combination of stabilized ionic silver and citric acid.

SDC's rapid and broad spectrum efficacy is largely attributed to its dual mechanisms of action and unique characteristics. These two mechanisms, alone or in combination, make SDC a powerful antimicrobial while mitigating microbial resistance.



Bacteria are actually attracted to SDC because they recognize citric acid as a food source. SDC easily enters the microorganism like a “Trojan Horse” through membrane transport proteins and causes irreversible damage to the DNA and protein structure. Metabolic and reproductive functions halt and the organism dies.

Silver ions are attracted to sulfur-containing thiol groups in metabolic and structural proteins bound to the membrane surface. SDC targets these critical proteins and destroys their structure in an extracellular attack. Disruption of the organism's membrane function and integrity lyses the membrane and the organism dies.



PURE HARD SURFACE DISINFECTANT

Efficacy Table

BACTERIA:

ORGANISM	CONTACT TIME*
<i>Pseudomonas aeruginosa</i>	30 seconds
<i>Salmonella enterica</i>	30 seconds
<i>Staphylococcus aureus</i>	2 minutes
<i>Listeria monocytogenes</i>	2 minutes
Vancomycin resistant <i>Enterococcus faecium</i> (VRE)	2 minutes
Methicillin resistant <i>Staphylococcus aureus</i> (MRSA)	2 minutes
Community Associated MRSA (CA-MRSA)	2 minutes
Community Associated MRSA (CA-MRSA-PVL)	2 minutes
<i>Escherichia coli</i> O157:H7	2 minutes
<i>Acinetobacter baumannii</i>	2 minutes
<i>Campylobacter jejuni</i>	2 minutes
Carbapenem resistant <i>Escherichia coli</i>	2 minutes
Carbapenem resistant <i>Klebsiella pneumoniae</i>	2 minutes
Carbapenem resistant <i>Klebsiella pneumoniae</i> , NDM-1	2 minutes

24 Hour Protection*

*Refer to label



VIRUSES:

ORGANISM	CONTACT TIME*
HIV type 1	30 seconds
Rotavirus	30 seconds
Human Coronavirus	30 seconds
Avian Influenza A	30 seconds
Influenza A	30 seconds
Influenza A (H1N1)	30 seconds
Swine Influenza A (H1N1)	30 seconds
Respiratory Syncytial Virus	30 seconds
Adenovirus Type 2	30 seconds
Herpes Simplex Type 1	60 seconds
Murine Norovirus	60 seconds
Norovirus	60 seconds
Rhinovirus	60 seconds
Polio Type 2	60 seconds
Hepatitis B Virus (HBV)	60 seconds
Hepatitis C Virus (HCV)	60 seconds

FUNGUS:

ORGANISM	CONTACT TIME*
Trichophyton mentagrophytes (Athlete's Foot Fungus)	5 minutes

*Contact times based upon EPA stamped label dated August 3, 2011

• Norovirus is the leading cause of infection outbreaks in U.S. hospitals according to a published article in the February, 2013 issue of *AJIC*.

CRE Urgent Threat

The Center for Disease Control (CDC) has raised CRE (Carbapenem resistant Enterobacteriaceae) to the **Urgent Threat** level. CRE has been called the "Nightmare Bacteria" because of its high mortality rates.

PURE Hard Surface kills these 3 strains of CRE:

- *Carbapenem resistant Escherichia coli*
- *Carbapenem resistant Klebsiella pneumoniae*
- *Carbapenem resistant Klebsiella pneumoniae*, NDM-1 +

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream, or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

A New Generation of Disinfection with Silver Ion Technology that Kills Germs Fast*!

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PURE DISINFECTANT

The Responsible Solution

Protect Employees, Patients and Visitors

Use of disinfectants is an important component of infection control practices, but occupational exposures (including bystanders) can cause adverse health effects including occupational illnesses (e.g., occupational asthma).

Active antimicrobial ingredients in disinfectants responsible for occupational illnesses include alcohol, quaternary ammonium chlorides (QAC or QUATS), glutaraldehyde and sodium hypochlorite (bleach).

Responsible facilities environmental management includes reducing employee occupational exposures to sensitizers and irritants in the work environment.

PRODUCT CRITERIA	<i>PURE Hard Surface</i>	COMPETITOR PRODUCTS			
CHEMISTRY	SDC	Sodium Hypochlorite	Quat	Quat, Isopropanol	Hydrogen Peroxide
HMIS	0,0,0	2,0,1	2,0,0	1,2,0	0,0,0
SIGNAL WORD	None	Caution	Caution	Caution	Caution
GRAS ¹	Yes²	No	No	No	No
DILUTION ³	RTU	RTU	RTU	RTU	RTU
VIRAL KILL TIME	30 sec - 1 min	1 min	3 min	2 min	1 min
BACTERIAL KILL TIME	30 sec - 2 min	1 min	3 min	3 min	1 min
FUNGAL KILL TIME	5 min	1 min	3 min	3 min	10 min
FOOD CONTACT SURFACE SANITIZER	Yes	No	No	No	No
RESIDUAL EFFICACY	Up to 24 Hours*	None	None	None	None
HAZARDS	None	Do not use with ammonia or acids. Eye Irritant. Corrosive. PPE	Moderate Eye Irritation. PPE	Harmful if exposed to skin or eyes. Combustible. PPE	No PPE, Corrosive on Steel
MEETS OSHA STANDARDS FOR HOSPITAL DISINFECTANT	Yes	Yes	Yes	Yes	Yes
KILLS THREE STRAINS OF CRE	Yes	No	No	No	No

1. Generally Recognized as Safe (GRAS) as a contact biocide; 2. US EPA Exemption from Tolerance 40CFR180.940(a); 3. RTU = Ready to Use



PURE Hard Surface – The Sustainable Advantage

- **Ready to use, non-corrosive hospital disinfectant** formula powered by ionic silver and citric acid
- Formulated for **ease of use in healthcare facilities** with fast kill times, broad spectrum efficacy and residual protection
- Effective against multiple drug resistant organisms (MRSA, VRE, CRE, NDM-1), **HIV, Hepatitis B, Hepatitis C plus 25 other human pathogens**
- EPA toxicity **Category IV**; does not require a signal word, first aid instructions or precautionary statements on the label
- Odorless and non-irritating formula ideal for use around patients and children
- **Food contact surface sanitizer**; no rinse required
- Contains **no Volatile Organic Compounds (VOC)**, bleach, alcohol, ammonia, phosphates, or phenols
- Ingredients **not considered hazardous** by OSHA and none are listed on the California Proposition 65 list
- Manufacturing of PURE Hard Surface results in **no waste by-products**

Use **pure** HARD SURFACE **Hard Surface as Your Hospital Disinfectant**

PURE Hard Surface provides an unparalleled combination of high efficacy and low toxicity with 30-second bacterial and viral kill times** and 24-hour* residual protection. PURE Hard Surface kills resistant pathogens like **MRSA, VRE, CRE** and **NDM-1** and also effectively eliminates dangerous fungi and viruses including **HIV, Hepatitis B**, Norovirus, Influenza A, Avian Influenza and H1N1. PURE Hard Surface is also registered for use on food contact surfaces and is gentle enough to be used in the presence of patients including children.

Convenient, low toxicity alternative**

- Ready to use solution requires no dilution or mixing
- Reduce exposure to toxic chemicals
- Disinfects without bleaching.

Disinfect environmental and high-touch surfaces

- Broad spectrum solution with fast kill times and 24-hour residual protection*
- Effective against drug resistant pathogens
- Safe for use on non-porous surfaces

Disinfect crowded areas without displacing patients

- Odorless and non-irritating formula
- Patient rooms, pediatric units, waiting areas, cafeterias
- Play structures, transport wagons, toys

Reach Target Zero goals

- Reduce financial risk associated with HAI
- Comply with public reporting
- Increase public confidence

Sanitize food contact surfaces

- Contains no VOC emitting ingredients
- No rinsing

Protect Capital Equipment

- Reduce cross contamination
- No dulling residue

Strengthen Infection Control and Sustainability Programs

PURE Hard Surface has been registered by the US Environmental Protection Agency (72977-5-73912).

*Refer to product label for a list of organisms

** Meets EPA requirements for toxicity Category IV



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