

DuPont™ RelyOn™

DISINFECTANTS AND ANTISEPTICS
EFFECTIVE SOLUTIONS FOR PERSONAL PROTECTION

DuPont™ RelyOn™ Antiseptic Products



DuPont, the company that has long been recognized for providing outstanding protection with brands like NOMEX®, KEVLAR®, ProShield®, Tyvek® and Tychem®, expands its offering to provide protection with a new family of disinfectants and antiseptics.

DuPont™ RelyOn™ Antiseptic Hand Wash Products

- Effective against Hepatitis A, B, and C based on *in-vitro* efficacy testing
- Available as personal-sized spray bottles, canisters of wipes, and individual wipes
- Convenient way to reduce germs that can cause disease and infection
- No sticky residue

These ready-to-use products offer an easy and effective way to disinfect hands and reduce the spread of germs that can cause disease and infection. Efficacy data has shown these products to be efficacious against a wide range of pathogens including Hepatitis A, B, and C, HIV-1, E. coli, Staphylococcus and more. (See our website for a copy of specification sheets and efficacy data).

Antiseptic hand wash products are based on a proprietary (patented) formulation that contains a skin-softening ingredient to help protect hands from drying. Wipes and spray do not contain phenols, bleach, chlorhexidine, formaldehyde, quaternary ammonium salts (quats) or glutaraldehyde.

Select from a 2 oz personal-size spray bottle or individual hand wipes that you can carry in your pocket or a 160-count canister of hand wipes.



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DuPont™ RelyOn™

DISINFECTANTS AND ANTISEPTICS



DuPont™ RelyOn™ Broad Spectrum Disinfectant Products

- Effective as a hard surface disinfectant against wide range of pathogens
- Compatible with most surfaces
- Cleans and disinfects in one-step

DuPont™ RelyOn™ Disinfectant Spray and Wipes

DuPont™ RelyOn™ disinfectant spray and wipes are isopropanol-based, ready-to-use products that are compatible with most surfaces and leave no residuals. Disinfectant sprays and wipes, when used as directed, are tuberculocidal, bacteriocidal, virucidal, and fungicidal. The disinfectant solution is efficacious against a range of human pathogens including Hepatitis A, B, C, MRSA VRE, influenza, RSV, and TB. (See our website for a complete listing along with efficacy data). These products are available in a 16 oz spray bottle with 1 gallon refills or in convenient canisters containing 160 wipes.

DuPont™ RelyOn™ Multi-Purpose Disinfectant Cleaner

DuPont™ RelyOn™ Multi-Purpose Disinfectant Cleaner (not pictured) is a peroxygen-based powder or tablet available in a variety of package sizes which may be used as an absorbent or dissolved in water to provide a disinfectant solution. This cost effective **bleach alternative**, when prepared as a 1% working solution, is efficacious against a range of human pathogens including Hepatitis A, B, and C. (See our website for complete listing along with efficacy data). In cases of incidental exposure, in-use solution is non-irritating to intact skin or eyes.

These products are available in a 5 kg bucket, a 500 g shaker, a 50 g sachet, and a 10- or 50-count 5 g tablet.

Not yet available in California.

For detailed information about DuPont disinfectant and antiseptic products and the effective protection they offer, visit www.personalprotection.dupont.com/cleananddisinfect or call a DuPont customer representative 1-800-931-3456.



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The DuPont Antiseptic products are formulated under Food and Drug Administration (FDA) guidelines and the DuPont Disinfectants are U.S. Environmental Protection Agency (EPA) registered. As with all disinfectants, always read and follow label instructions per EPA guidelines.

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DuPont™ RelyOn™ Antiseptic Hand Wash Products

An easy to use antiseptic hand wash effective against a wide range of pathogens.

- Effective against a wide range of pathogens including Hepatitis A, B, and C based on *in-vitro* efficacy testing
- Available as personal-sized spray bottles, canisters of wipes, and individual wipes
- Convenient way to reduce germs that can cause disease and infection
- No sticky residue

These ready-to-use products offer an easy and effective way to disinfect hands and reduce the spread of germs that can cause disease and infection. Efficacy data has shown these products to be effective against a wide range of pathogens including Hepatitis A, B, and C, HIV-1, E. coli, Influenza and more (see label for specific organisms.)

Antiseptic hand wash products are based on a proprietary (patented) formulation that contains a skin-softening ingredient to help protect hands from drying. Wipes and spray do not contain phenols, bleach, chlorhexidine, formaldehyde, quaternary ammonium salts (quats) or glutaraldehyde.

Select from a 2-oz. personal-size spray bottle or individual hand wipes that you can carry in your pocket or a 160-count canister of hand wipes. Based on external comparative testing with a 2-oz gel, the 2-oz hand spray provides twice the number of applications.



For More Information

For product information or to place an order, go to www.PersonalProtection.DuPont.com. To speak with a DuPont Customer Service representative, call 1-800-931-3456. For medical emergencies, spills, or other critical situations, call 1-800-441-7515 within the United States. For those outside of the United States, call 1-302-774-1000.

Please turn over for Product Technical Information
H-93898-3 (10-04)

in vitro Efficacy Data

Microorganism	DuPont™ Antiseptic Hand Spray	DuPont™ Antiseptic Hand Wipes
Hepatitis A, B, and C	•	•
HIV-1 (AIDS virus)	•	•
Methicillin-resistant Staphylococcus aureus (MRSA)	•	•
Vancomycin-resistant Enterococcus faecalis (VRE)	•	•
Herpes simplex	Type 2	Type 1
Escherichia coli (E. coli)	•	•
Mycobacterium bovis (TB surrogate)	•	•
Pseudomonas aeruginosa	•	•
Streptococcus pyogenes (Strep)	•	•
Salmonella choleraesuis	•	•
Staphylococcus aureus	•	•
Respiratory syncytial virus (RSV)	•	
Rotavirus (SA-11, GroupA)	•	
Influenza TypeA-2	•	
Trichophyton mentagrophytes (Athletes Foot fungus)	•	•
Cytomegalovirus (CMV)	•	
Adenovirus	•	

For hospital and professional use only.

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DuPont™ Antiseptic Hand Wash Products

Technical Information

Microbial Efficacy Data

BACTERIAL STUDIES

Solution Test Description: Modified AOAC Official Method 961.02 - Germicidal Spray Products as Disinfectants test, 16th ed. Glass slides are inoculated with the appropriate bacterium in 5% horse serum, dried, sprayed with the disinfecting product for ≤ 8-min contact times at 20-25°C, immediately placed in neutralizing broth and incubated @ 37°C for 48 hr. Killing of test organisms in 10 of 10 (or 60 of 60) trials is presumptive evidence of disinfecting action.

Wipe Test Description: AOAC Germicidal Spray Disinfectant Test modified for towelette, EPA DSS/TSS 1,2, and 3 and EPA Notice of Efficacy Requirements for Pre-Saturated or Impregnated Towelettes for Hard Surface Disinfection. Glass slides are inoculated with the test organism in 5% heat inactivated horse serum, dried, wiped with the disinfectant wipe, held for 10 min., immediately placed in neutralizing broth and incubated at 37°C for 48 hr. Killing of test organisms in 10 of 10 trials is presumptive evidence of disinfecting action.

Bactericidal activity (i.e., complete kill expressed as % reduction) was achieved for the Solution and Wipe:

Bacteria	SOLUTION		WIPES	
	ATCC No.	% Reduction	ATCC No.	% Reduction
<i>Enterococcus faecalis</i> (VRE)	51299	>99.99999	-	-
<i>Enterococcus faecium</i> (VRE)	-	-	51559	>99.99
<i>Escherichia coli</i> O157	43895	>99.999	-	-
<i>Escherichia coli</i>	-	-	11229	>99.99
<i>Mycobacterium bovis</i> (BCG)*	35743	>99.999	35743	>99.999
<i>Pseudomonas aeruginosa</i>	15442	>99.9999	15442	>99.999
<i>Salmonella choleraesuis</i>	10708	>99.9999	10708	>99.99
<i>Staphylococcus aureus</i>	6538	>99.99	6538	>99.999
<i>Staphylococcus aureus</i> (MRSA)	33593	>99.99999	33591	>99.999
<i>Streptococcus pyogenes</i>	49399	>99.999	19615	>99.99
* NOTE: AOAC Official Method 965.12 - Tuberculocidal Activity of Disinfectants test. II. Confirmative In Vitro Test for Determining Tuberculocidal Activity. For <i>Mycobacterium bovis</i> (BCG) test carriers were wiped for a total of 1 min. each. - Data in these columns applies to solution only or wipe only.				

VIRAL STUDIES

Solution Test Description: Virucidal Efficacy Test (EPA's DIS/TSS-7 Efficacy Data Requirements: Virucides). Sterile tissue culture dishes are inoculated with the appropriate virus in 10% horse serum, dried, sprayed with the disinfecting product for ≤ 5-min contact times at 20-25°C, scraped, and enumerated by serial dilution onto MDCK cells. The product must demonstrate complete inactivation of the virus.

Wipe Test Description: AOAC Germicidal Spray Disinfectant Test modified for towelette, EPA Notice of Efficacy Requirements for Pre-Saturated or Impregnated Towelettes for Hard Surface Disinfection and ASTM Test Method 1053-97. Sterile glass petri dishes are inoculated with the appropriate virus in 5% fetal bovine serum, dried, wiped with the disinfecting product for a 1-min contact time at 22°C, neutralized with FBS, scraped, and enumerated by serial dilution onto AGMkK cells (Vero). The product must demonstrate complete inactivation of the virus.

Virucidal activity (i.e., complete inactivation expressed as % reduction) was achieved for the Solution and Wipe:

Virus	SOLUTION		WIPES	
	ATCC No.	% Reduction	ATCC No.	% Reduction
<i>Adenovirus</i> type 2 (Adenoid 6)	VR-846	99.999	-	-
<i>Cytomegalo-Inclusion Disease virus</i>	VR-538	>99.9	-	-
<i>Hepatitis A virus</i>	-	>99.99	-	-
<i>Hepatitis B virus</i> *	-	>99.99	-	-
<i>Hepatitis C virus</i> **	-	>99.9999	-	-
<i>Herpes simplex</i> type 1	-	-	VR-260	>99.99
<i>Herpes simplex</i> type 2	VR-539	>99.9	-	-
<i>Human Immunodeficiency virus</i> (HIV-1)	-	>99.99	Zepto Metrix Corp.	>99.9999
<i>Influenza</i> type A2 (Hong Kong)	VR-544	99.9	-	-
<i>Respiratory Syncytial virus</i> (RSV)	VR-26	99.999	-	-
<i>Rotavirus</i> , strain SA-11, group A	-	>99.9	-	-
- Data in these columns applies to solution only or wipe only. * Duck Hepatitis B Virus (surrogate for human Hepatitis B Virus) ** Bovine Viral Diarrhea Virus (surrogate for human Hepatitis C Virus)				

FUNGAL STUDIES

Solution Test Description: AOAC Official Method 955.17 - Fungicidal Activity of Disinfectants test, 16th ed., EPA DSS/TSS 6 Guidelines and EPA Notice of Efficacy Requirements for Pre-Saturated or Impregnated Towelettes for Hard Surface Disinfection. A spore suspension of *T. mentagrophytes* in 5% fetal bovine serum is exposed to the product for 5, 10 and 15 min., neutralized in glucose broth, and incubated at 25-30°C for 10 days.

Wipe Test Description: AOAC Fungicidal Activity of Disinfectants Test modified for towelette, EPA DSS/TSS 6 Guidelines and EPA Notice of Efficacy Requirements for Pre-Saturated or Impregnated Towelettes for Hard Surface Disinfection. Glass slides are inoculated with a spore suspension of *T. mentagrophytes* in 5% heat inactivated horse serum, dried, wiped with the disinfecting product, held for 10 min., neutralized in Neopeptone glucose broth, incubated at 22°C for 10 days and observed for visible growth.

Fungicidal activity (i.e., complete kill expressed as % reduction) was achieved in 10-min for both Solution and Wipe:

Fungus	SOLUTION		WIPES	
	ATCC No.	% Reduction	ATCC No.	% Reduction
<i>Trichophyton mentagrophytes</i>	9533	>99.9999	9533	>99.99

CONCLUSIONS

DuPont™ Antiseptic Hand Spray and Wipe demonstrated bactericidal (Gram-negative and Gram-positive bacteria including MRSA and VRE), tuberculocidal, virucidal and fungicidal efficacies within the 10 minute exposure designated on the label. Always read and follow label instructions for product use.

DuPont Antiseptic and Disinfectant Products

Features	Benefits
Broad antiseptic claims including Hepatitis A, B, C and HIV, TB, MRSA, and VRE.*	→ Protects hands from a wide variety of germs that cause diseases and illnesses
Broad disinfectant claims including HIV, TB, MRSA, and VRE.*	→ Protects surfaces from a wide variety of germs that cause diseases and illnesses
Disinfectants and Antiseptics available in spray or wipes from DuPont	→ Single supplier for your disinfection and antiseptic needs
Effective in the presence of bovine serum	→ Cleans and disinfects in one-step
Patented, low residue formulation	→ Does not leave the hand or surface sticky
Low corrosivity	→ Does not damage most surfaces.
Low residual odor	→ Avoid irritating or unpleasant "bleach" type odors
Patented formulation based on single active ingredient- isopropyl alcohol	→ No evidence that formulation contributes to antimicrobial resistance
Hand antiseptic spray and hand wipe delivery systems	→ More controlled, less messy delivery
Contains a skin softening emollient	→ Ideal for frequent use; prevents skin from drying out
Hand spray comes in a 2 oz bottle	→ Easy to carry and easy to use
2-oz. Hand Spray provides twice as many applications as the leading 2-oz. hand gel	→ Potential for significant cost savings

* See product label for complete list of organisms.

To learn more about DuPont Antiseptic and Disinfectant products and the effective protection they offer, please contact a DuPont Customer Service representative at 1-800-931-3456 or visit our web site at www.personalprotection.dupont.com/cleananddisinfect.

DuPont vs. Competition

How do the DuPont products compete with the market leaders?

Product Comparison

Product	Company	Active	Wipe Size	E Coli (fecal)	E Coli O157:H7 (food)	MRSA	VRE	Herpes	TB	HIV	HepA	HepB	HepC
Antiseptic Hand Spray/Gel													
DuPont Broad Spectrum Antiseptic Spray	DuPont	70% IPA	N/A	x	x	x	x	x	x	x	x	x	x
Purell Instant Hand Sanitizer	GOJO	62% EA	N/A	x	x	x	x	x					
Stokosept Instant Hand Sanitizer	Stockhausen	62% EA	N/A	x	x	x				x		x	
VioNex Instant Hand Sanitizer	Metrex	10% EA & PCMX	N/A	x		x							
Antiseptic Hand Wipes													
DuPont Broad Spectrum Antiseptic Wipe	DuPont	70% IPA	6.5x6.5	x		x	x	x	x	x	x	x	x
SANI-DEX Antimicrobial Hand Wipe	PDI	PCMX & EA	6x6.75	x		x	x						
SCRUBS Hand Sanitizer Wipe	ITW Dymon	PCMX & EA	6x7.5	x									
P.A.W.S Hand Sanitizer Wipe	Safetec	PCMX & EA	5x8	x									
Hard Surface Disinfectant Spray													
DuPont Broad Spectrum Disinfectant	DuPont	70% IPA	N/A	x	x	x	x	x	x	x	Submitted for EPA Approval	Submitted for EPA Approval	Submitted for EPA Approval
Cavicide General Disinfectant	Metrex	17% IPA & 0.25% Quat	N/A	x		x	x	x	x	x		x	
Sanitex Plus Disinfectant Spray	PDI	21% IPA & 0.514% Quat	N/A	x		x	x	x	x	x			
SaniZide Plus Germicidal Solution	Safetec	0.105% Quat & 0.105% BZK	N/A	x					x	x		x	
Hard Surface Disinfectant Wipe													
DuPont Broad Spectrum Disinfectant Wipe	DuPont	70% IPA	6.5x6.5	x		x	x	x	x	x			
Caviwipe Disinfectant Wipe	Metrex	17% IPA & 0.25% Quat	6x6.75	x		x	x	x	x	x		x	
Sanitex Plus Disinfectant Wipe	PDI	15% IPA & 0.5% Quat	6x6.75 or 11x11	x	x			x	x	x			
Sani-Cloth HBHHHH	PDI	0.07% Quat & 0.17% BZK	6x6.75 or 11x12	x	x	x	x	x		x		x	
Metriwipes Germicidal Disposable Cloth	Safetec	8% IPA & 0.14% Quat	6x6.75	x				x	x	x			
Comments:													
Active Abbreviations		Additional Benefit		Claims						Efficacy results			
IPA-Isopropyl alcohol EA-Ethyl alcohol PCMX-Parachlorometaxylenol BZK-Benzalkonium chloride Quat-Quaternary Amine		Hand spray comes in a 2 oz bottle Hand spray provides twice as many applications as the leading 2-oz. hand gel		The above is not a complete list of all manufacturer claims. Please refer to the label for a complete list of claims and additional information. The claims listed above were based on manufacturer product labels/literature as of August 2003.						Based on <i>in vitro</i> testing			