

DuPont™ RelyOn™ PeraSafe™ Sterilant

Comparison

	RelyOn PeraSafe™ Sterilant	Glutaraldehyde 2%	Ortho-phthalaldehyde (0.55%)	Alcohol (70%)	Chlorine dioxide	Superoxidised water (HOCl/Cl ₂)
Spores	Rapid	Poor	Poor	None	Good	Good
Mycobacteria	Good	Moderate	Good	Good	Good	Good
Bacteria	Rapid	Good	Good	Good	Good	Good
Viruses (Enveloped)	Good	Good	Good	Good	Good	Good
Viruses (Non Enveloped)	Good	Good	Good	Moderate	Good	Good
Stable	24 hours	Moderate	Moderate	Yes	No	No
Inactivation by organic matter	No	No (fixative)	No (fixative)	Yes (fixative)	Yes	Yes
Corrosive/damaging	No	No	No (staining)	Slight	Yes	Yes
Irritant (I) Sensitising (S)	I	I/S	I/S	No (flammable)	I	No

Efficacy data

Organism	Strain	Protocol	Contact time	Log reduction
Bacillus subtilis var niger	NCTC 10073	Suspension	1 minute	>6 log
Bacillus subtilis var niger	NCTC 10073	Surface	2 minutes	>5 log
Bacillus subtilis var niger	NCTC 10073	EN 1276:1997	5 minutes	>6 log
Enterococcus faecium	VRE clinical isolate,	EN 1276:197	5 minutes	>5 log
Escherichia coli	NCTC 12900	EN 1276:1997	5 minutes	>5 log
Mycobacterium tuberculosis	H37Rv NCTC 7416	HIRL (Carrier Test)	1 minute	>5 log
Staphylococcus aureus	MRSA NCTC 12493	EN 1276:1997	5 minutes	>5 log
Staphylococcus aureus	EMRSA type 15	EN 1276:1997	5 minutes	>5 log
Salmonella typhimurium	Phage type 104	EN 1276:1997	5 minutes	>5 log
Pseudomonas aeruginosa	NCTC 6749	Endoscope in-use trial	4 minutes	>7 log
Pseudomonas aeruginosa	NCTC 6749	EN 1276:1997	5 minutes	>5 log
Campylobacter jejuni	Wild strain	EN 1276:1997	5 minutes	>5 log
Klebsiella aerogenes	NCTC 9528	EN 1276:1997	5 minutes	>5 log
HIV	HTLV-IIIB	USA EPA 40 part 158	5 minutes	>4 log
Adenovirus	Type 2	USA EPA 40 part 158	10 minutes	>6 log
Hepatitis B	clinical strain	HBsAg assay	10 minutes	None detected
Hepatitis C	clinical strain	Marker molecule assay	10 minutes	None detected
Aspergillus niger (spores)	Wild strain	EN 1650:1998	10 minutes	>4 log
Candida albicans	NCIMB 50010	prEN1657	5 minutes	>4 log
Candida albicans	ATCC 10231	EN 1650:1998	5 minutes	>4 log

Full copies of independent test data summarised above validating RelyOn PeraSafe's™ Sterilant efficacy and safety claims are available separately from DuPont RelyOn Prevention Solutions. ® and ™ indicate trademarks or registered trademarks of DuPont™ or its affiliates.

Presentation

Pale blue/white powder

Pack Size	Volume of RelyOn PeraSafe™ Sterilant
810gm	50 litres
162gm	10 litres
81gm	5 litres
16.2gm	1 litre



DuPont™ RelyOn™
PeraSafe™ Sterilant
10 MINUTE MEDICAL DEVICE
DISINFECTANT/STERILANT

achieving new standards in medical device sterilisation



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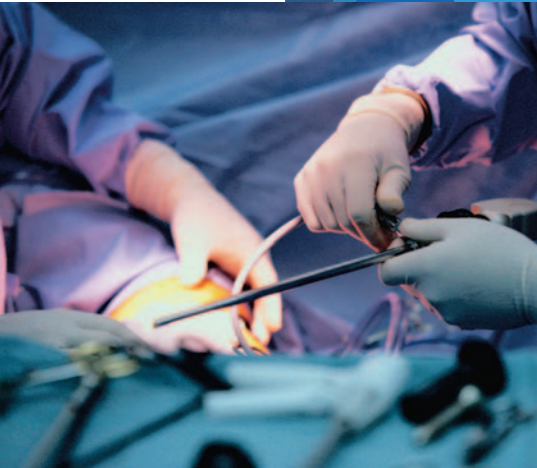
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The miracles of science™

DuPont™ Rely+On™ PeraSafe™ Sterilant



flexible endoscope
and medical devices

RelyOn PeraSafe™ Sterilant

- RelyOn PeraSafe™ Sterilant gives assurance to medical and infection control professionals for patient safety, avoids health hazards to staff and is cost effective in terms of infrastructure, staff health and device maintenance and repair.
- RelyOn PeraSafe™ Sterilant is proven effective against pathogens such as bacteria, viruses, fungi and spores that can be transmitted between patients via flexible endoscopes, ultra-sound probes and other reusable, non-invasive, heat sensitive medical devices. 10 minutes immersion achieves sterilant level decontamination.
- RelyOn PeraSafe™ Sterilant is compatible with, and approved by, manufacturers of medical devices and automated endoscope reprocessors and washer/ disinfectors. A unique corrosion inhibition system, allied to a neutral pH solution, optimises efficacy and compatibility.

RelyOn PeraSafe™ Sterilant is a rapid, medical device compatible chemical sterilant.

Supplied as a powder, RelyOn PeraSafe™ Sterilant is activated by simply dissolving in tap water. Providing rapid decontamination of medical devices, RelyOn PeraSafe™ Sterilant gives confidence to users and patients alike. An aldehyde-free formulation gives efficacy without harm to equipment, user sensitisation and avoids the need for special fume extraction or waste disposal systems.

General Description

A unique powder system which is dissolved in water to form a highly effective biocidal solution, RelyOn PeraSafe™ Sterilant powder is compact relative to usable volume, saving storage space and transportation of liquids.

Chemistry

RelyOn PeraSafe™ Sterilant powder generates peracetic and peracetyl ions in situ when dissolved in water. The neutral pH solution combines the biocidal efficacy of peracetic acid with excellent materials compatibility to allow repeated, rapid decontamination of pathogenic micro-organisms from heat labile, reusable medical devices and instruments.

Mode of Action

Peracetic acid and peracetyl ions oxidise many of the cellular and intracellular functional groups such as proteins and enzymes found in micro-organisms and viruses. Disruption of cell walls arises from oxidation of bonds within proteins. Intracellular function is also impaired through oxidation of enzymes. Through this disruptive mode of action, resistance to RelyOn PeraSafe™ Sterilant is unlikely to develop as with protein fixing and cytotoxic biocides.

Range of Presentations

RelyOn PeraSafe™ Sterilant powder is available in a range of packs for varying user requirements. For example: multiples of 81 gm/5 litre or 162 gm/10 litre tubs for endoscope reprocessors, 16.2 gm/1 litre sachets for small volume, manual reprocessing, for example, lenses in eye clinics, dental instruments and naso-endoscopes and instruments in Out Patients.

surgical instruments



Efficacy

RelyOn PeraSafe™ Sterilant has independently proven efficacy against viruses (including HIV and Hepatitis B & C), bacteria (Ps. aeruginosa), Mycobacteria fungi including (Candida albicans) and spores (B. subtilis). These tests show rapid sterilant properties across a wide spectrum of micro-organisms making RelyOn PeraSafe™ Sterilant ideal for endoscope and medical device decontamination.

RelyOn PeraSafe™ Sterilant is suitable for use in Automated Endoscope Reprocessors or immersion baths. Only 10 minutes contact time is needed for sterilisation.

RelyOn PeraSafe™ Sterilant has been independently evaluated by HIRL in the UK, one of only two W.H.O. appointed laboratories for Infection Control research.

HIRL found a reduction in colony forming units of $> 6 \log_{10}$ for Bacillus subtilis var niger spores in less than 10 minutes (surface test) and a reduction of $> 5 \log_{10}$ ($5-8 \log_{10}$) c.f.u. for Mycobacterium tuberculosis in a dirty carrier test with a contact time of 10 minutes. These results prove RelyOn PeraSafe™ Sterilant's rapid efficacy and suitability for endoscope reprocessing.

Safety

RelyOn PeraSafe™ Sterilant has exceptional user safety as an aqueous-based formulation. No workplace exposure limits have been set for the components of this formulation. No special ventilation systems or monitoring of staff is necessary under recommended patterns of use, saving costs and improving working conditions.

Compatibility

RelyOn PeraSafe™ Sterilant is compatible with flexible and stainless steel rigid endoscopes. RelyOn PeraSafe™ Sterilant should only be used in AER's with stainless steel or inert material valves and pipework.

Certification

RelyOn PeraSafe™ Sterilant is registered in accordance with requirements of the Medical Devices Directive, 93/42/EEC as a Medical Device. RelyOn PeraSafe™ Sterilant is a registered trademark of DuPont RelyOn Prevention Solutions.

Life of Solution

24 hours from activation, or maximum 20 cycles in Automated Endoscope Reprocessor, or until indicated by test-strip.

Product shelf-life

RelyOn PeraSafe™ Sterilant powder shelf-life is two years from date of manufacture.

Easy to prepare



Step 1

Fill a container with lukewarm tap water (30-35°C) to the required volume.



Step 2

Add powder to water direct from container or required amount using measuring cap provided.



Step 3

Stir until the powder dissolves to form a clear blue solution. (10-15 minutes).



Step 4

Pour the solution into an immersion bath or endoscope reprocessor for use. The solution fades to colourless in approximately one hour and may be used for up to 24 hours after activation. i.e. when the clear blue solution is achieved. Solution should be discarded if the test strip indicates it is below the Minimum Effective Concentration.