



DuPont™ Rely+On™ Peracilyse

DENTAL SURGERY HIGH LEVEL DISINFECTANT
AND MEDICAL DEVICE STERILANT

- **Outstanding biocidal action**
- **Unique corrosion inhibitor system**
- **Ideal for the disinfection of surgical orthodontic instruments, dental impressions and sterilisation of dental medical devices**
- **Enhanced environmental and operator safety profiles**

Specifically developed to offer rapid broad spectrum decontamination against viruses, mycobacteria, bacteria, fungi and spores. Rely+On™ Peracilyse, with its unique corrosion inhibitor system and near neutral pH, is the ideal solution for the disinfection of surgical orthodontic instruments including pliers, forceps, explorers, tweezers and scissors, dental impressions and the sterilisation of medical devices.

Chemistry

Rely+On™ Peracilyse powder generates peracetic acid 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.

Efficacy

Independently proven highly effective against viruses, mycobacteria, bacteria and spores, Rely+On™ Peracilyse provides rapid broad spectrum decontamination against disease-causing pathogens of concern to human health, such as HIV and Hepatitis B & C, Tuberculosis, Pseudomonas aeruginosa and Candida albicans.

Rely+On™ Peracilyse has been independently evaluated in the United Kingdom by the Hospital Infection Research Laboratory (HIRL), one of only two specialist infection research laboratories in the UK.

The HIRL evaluation findings show that, in 10 minutes or less, Rely+On™ Peracilyse reduces colony forming units of $>6 \log_{10}$ for Bacillus subtilis var niger spores (surface test), and $>5 \log_{10}$ for Mycobacterium tuberculosis. These results clearly demonstrate Rely+On™ Peracilyse's rapid biocidal action and suitability for use in medical device sterilisation.

Surgical Instrument & Medical Device Compatibility

Rely+On™ Peracilyse is compatible for use with orthodontic surgical instruments including pliers, forceps, explorers, tweezers and scissors, dental impressions and other common reusable, non-invasive, heat sensitive medical devices. A unique corrosion inhibitor system, allied to a neutral pH solution, optimises efficacy and compatibility.

Certification

Rely+On™ Peracilyse complies with the Medical Devices Directive as assessed by BSI Product services (Notified Body No.0086) (CE Certificate No.01455).



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Preparation & Use

- Step 1** Fill a suitable clean container with the appropriate volume of lukewarm tap water (30-35°C).
- Step 2** Prepare the sterilising solution by adding 81 grams of Rely⁺On™ Peracilyse powder to every 5 litres of water.
- Step 3** Stir until the powder dissolves to form a blue solution (10-15 minutes).
- Step 4** Check solution is at correct level of efficacy prior to use using a Rely⁺On™ Peracilyse Test Strip.
- Step 5** Ensure the items to be disinfected have been thoroughly cleaned using a suitable detergent solution to remove any organic matter prior to submersion in Rely⁺On™ Peracilyse sterilant.
- Step 6** Completely immerse items in the Rely⁺On™ Peracilyse sterilant solution to ensure contact with all internal and external surfaces and then leave to soak for a minimum of 10 minutes.
- Step 7** Remove the items using an aseptic technique and then rinse thoroughly in sterile water before drying with a sterile non linting cloth.

Personal Protective Equipment (PPE) consisting of safety glasses, rubber or latex gloves and apron should be worn whilst preparing Rely⁺On™ Peracilyse solutions.

The lifespan of Rely⁺On™ Peracilyse in-use solutions is 24 hours from time of activation. The blue colour will fade after a couple of hours but this does not indicate a loss of efficacy. Unused or inactive solutions may be disposed of via the sink.

Operator Safety

Rely⁺On™ Peracilyse is not classified as a skin irritant or a sensitiser in both powdered form and in-use dilutions¹, avoiding the need for special fume extraction or waste disposal systems.

1. In accordance with EU legislation on the classification and labelling of chemical preparations

The Planet & Our Products

DuPont is committed to providing more environmentally sustainable products; Rely⁺On™ Peracilyse has been formulated to include ingredients that have been carefully selected for their ability to degrade naturally within the environment.

Product Shelf Life

Rely⁺On™ Peracilyse shelf life is two years from date of manufacture.



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Independent Efficacy Data

The tables below summarise independent efficacy data of Rely⁺On™ Peracilyse against the important disease-causing pathogens affecting human health. Full copies of the independent test data summarised above are available upon request from DuPont.

Virucidal Efficacy

Organism	Strain	Test Protocol	Contact Time	Log Reduction
Adenovirus	Type 2	USA EPA 40 part 158	10 minutes	>6 log
Hepatitis B	clinical strain	HBsAg assa	10 minutes	None detected
Hepatitis C	clinical strain	Marker molecule assay	10 minutes	None detected
HIV	HTLV-IIIB	USA EPA 40 part 158	5 minutes	>4 log

Mycobacteria Efficacy

Organism	Strain	Test Protocol	Contact Time	Log Reduction
Mycobacterium tuberculosis	H37Rv NCTC 7416	HIRL (Carrier Test)	1 minute	>5 log

Bactericidal Efficacy

Organism	Strain	Test Protocol	Contact Time	Log Reduction
Bacillus subtilis var niger	NCTC 10073	Suspension	1 minute	>6 log
		Surface	2 minutes	>5 log
Bacillus subtilis var niger	NCTC 10073	EN 1276:1997	5 minutes	>6 log
Campylobacter jejuni	Wild strain	EN 1276:1997	5 minutes	>5 log
Escherichia coli	NCTC 12900	EN 1276:1997	5 minutes	>5 log
Klebsiella aerogenes	NCTC 9528	EN 1276:1997	5 minutes	>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

Bactericidal Spore Efficacy

Organism	Strain	Test Protocol	Contact Time	Log Reduction
Bacillus subtilis var niger	NCTC 10073	Suspension	1 minute	>6 log
		Surface	2 minutes	>5 log
Bacillus subtilis var niger	NCTC 10073	EN 1276:1997	5 minutes	>6 log
Clostridium difficile	Stool isolate	Surface	10 minutes	>6 log

Fungicidal & Yeasticidal Efficacy

Organism	Strain	Test Protocol	Contact Time	Log Reduction
Aspergillus niger (spores)	Wild strain	EN 1650:1998	10 minutes	>4 log
Candida albicans	ATCC 10231	EN 1650:1998	5 minutes	>4 log



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