



Biosan II (AP439) is a proprietary anti-microbial decontaminant for use in heavy duty restoration situations where bacteria, viruses, spores, moulds and yeasts are prevalent because of flooding, body fluids or organic waste. The core biocidal activity in Biosan II is derived from a synergistic combination of two powerful biocides and specific potentiator chemistry which effectively destroys a wide range of micro-organisms, viruses, odour causing bacteria and mould.

This powerful biocidal blend is carried rapidly and deeply into the affected area with a dynamic wetting agent which enables the biocide to penetrate substantially further into porous substrates, fabrics and fibres than traditional disinfectants.

TRAUMA, Category 3 WATER and BIO-HAZARD DECONTAMINATION

Biosan II not only rapidly penetrates the contact surface but has an extremely high tolerance of organic soil. This contributes to its incredible biocidal efficacy. In trauma, black water and other decontamination applications, Biosan II is a highly effective bactericide and surprisingly economical to use.

At recommended dilution rates Biosan II is active against gram positive and negative bacteria, moulds, spores, enveloped and non-enveloped (lipid & non-lipid) viruses.

TGA Test : Hospital Grade Disinfectant - 1:32 Dilution

Micro-organism	Dilution	Time	Condition	Resultant kill
Staphylococcus Aureus (gram-positive)	1:32	8 min	Dirty	>99.999999%
Escherichia Coli (gram-negative)	1:32	8 min	Dirty	>99.999999%
Pseudomonas Aeruginosa (gram-negative)	1:32	8 min	Dirty	>99.999999%
Proteus Vulgaris (gram-negative)	1:32	8 min	Dirty	>99.999999%

TGA Test : Hospital Grade Disinfectant - 1:64 Dilution

Micro-organism	Dilution	Time	Resultant kill
Staphylococcus Aureus (gram-positive)	1:64	8 min	>99.999999%
Escherichia Coli (gram-negative)	1:64	8 min	>99.999999%
Pseudomonas Aeruginosa (gram-negative)	1:64	8 min	>99.999999%
Proteus Vulgaris (gram-negative)	1:64	8 min	>99.999999%

AOAC Hard Surface Carrier Test - 1:32 Dilution

Micro-organism	Dilution	Time	Condition	Results
Staphylococcus Aureus (gram-positive)	1:32	8 min	5% Serum	Pass
Salmonella choleraesuis (gram-negative)	1:32	8 min	5% Serum	Pass
Pseudomonas Aeruginosa (gram-negative)	1:32	8 min	5% Serum	Pass

MOULD

Recent innovations in Quaternary Ammonium Compounds make them among the most lethal mouldicides available. Biosan II combines this technology with potentiators and penetrants for unparalleled mould killing power.

At a dilution of 1:16, Biosan II takes only 8 minutes to achieve a >4.5log reduction (kill) when tested against *Aspergillus Brasiliensis*. With a very favourable and economical RTU profile, Biosan II is a product of choice.

Evaluation in accordance with BS EN 1650:2008 - 1:16 Dilution

Micro-organism	Dilution	Time	Condition	Results
<i>Aspergillus Brasiliensis</i> .	1:16	8 min	0.3% albumin	>99.99%

Benefits

- **Sophisticated Anti-microbial Blend** – Biosan II employs a potentiated biocidal package which provides a significantly faster and wider scope of kill.
- **Penetration** – To provide ultimate sanitization of target surfaces, this powerful anti-microbial package has been combined with super-wetting technology. This enables the biocide to penetrate faster and deeper into the inner-structure of fibre and porous substrates.
- **Eliminates odours** – Biosan II eliminates odours at their source by powerful anti-microbial action against odour causing germs.
- **Broad Spectrum of Activity** – Biosan II has lethal capacity against an extremely broad scope of microorganisms, making it the ideal product for a wide variety of applications.
- **Provides a Safe Working Environment** – ideal for removing or minimizing dangerous micro-organisms ahead of continuing with restoration clean-ups involving human fluids, sewage and mould.

Directions

Always pre-test in an inconspicuous location for substrate sensitivity to chemicals. Observe all safety directions and read the SDS before use.

Mixing

- Add 65ml per litre of water (1:16) for mould remediation.
- Add 32ml per litre of water (1:32) for disinfection and decontamination in high soil load conditions. (Category 3 water)
- Add 16ml per litre of water (1:64) for standard applications, disinfection and odour control. (Category 1 & 2 water)

Application:

1. Before cleaning is undertaken, the affected area can be sprayed down with Biosan II solution to reduce microbial concentration and enhance user safety.
2. Remove and clean away all wet and dry debris. Pre-clean area before disinfection step.
3. Apply Biosan II solution to the affected area. Ensure all areas and surfaces come into contact with Biosan II solution. Application can be by means of spray, wet fog, mop or cloth.
4. Agitate briefly, where possible to promote penetration into porous substrates.
5. Allow a minimum of 10 minutes dwell time.
6. Rinse thoroughly with clean water.