

Proxel™ AQ Preservative

Proxel™ AQ Preservative is a zero VOC, broad spectrum biocide for the preservation of industrial water-based products against spoilage from bacteria, yeasts and fungi. Proxel™ AQ Preservative is a pumpable 9.25% aqueous solution of 1,2-benzisothiazolin-3-one.

Applications

Proxel™ AQ Preservative is effective in a wide range of industrial aqueous based products. Such application areas include:

- Paints
- Adhesives
- Household products
- Inks
- Paper coating compositions
- Metalworking fluids
- Aqueous mineral slurries
- Tape joint compounds
- Leather processing solutions.

Amount to Use

Results of initial studies indicate that a concentration of Proxel™ AQ Preservative in the range 0.075–0.5% should be sufficient for most applications. Since the effective concentration can be dependent on several factors, we recommend that compatibility/stability trials and microbiological challenge testing should be carried out before use.

Technical Service

All of these tests can be provided by Lonza's technical laboratories as part of our customer support program.

Table 1

Typical Physical Properties	
Composition	A solution of 1,2-benzisothiazolin-3-one in water.
Physical Form	Fawn colored liquid
Viscosity at 25°C	1–5 mPa s (Newtonian)
pH at 25°C	12.3
Boiling Point	100°C
Storage Stability	Stable under normal conditions of storage. If frozen, allow to thaw and stir well before use. Active agent is heat-stable and non-volatile.
Compatibility	Compatible and effective over pH range 4–12. Stable in the presence of amines. Incompatible with some oxidizing and reducing agents e.g. persalts, sulphites.
Density at 25°C	8.8 lb/gal

The levels of Proxel™ AQ Preservative needed to prevent the growth of problem microorganisms are listed in Table 2; MICs do not represent effective use levels but do indicate the broad spectrum of activity of Proxel™ AQ Preservative.

Proxel™ AQ Preservative has a non-specific mode of action, which means that bacterial resistance is very unlikely to occur. Detailed information on the mode of action of Proxel™ AQ Preservative is available on request.

Table 2 Minimum Inhibitory Concentrations (MIC)

Microorganism	Proxel™ AQ Preservative (ppm)
Bacteria	
Bacillus subtilis	80
Enterobacter cloacae	160
Escherichia coli	80
Proteus vulgaris	250
Pseudomonas aeruginosa	500
Pseudomonas putida	500
Staphylococcus aureus	80
Streptococcus faecalis	80
Fungi	
Aspergillus niger	700
Yeasts	
Endomycopsis albicans	400
Rhodotorula rubra	800
Saccharomyces cerevisiae	500

Risk Assessment & Management

Highly qualified Lonza Safety, Health and Environment (SHE) professionals are available to help define and manage any potential risks to human health or to the environment when using Lonza antimicrobial products.

In addition, Lonza is committed to understanding the suitability of Proxel™ AQ Preservative for specific applications. Contact your Lonza Account Representative should you have any questions in this area.

Health and Safety

The Proxel™ AQ Preservative Safety Data Sheet is provided with every sample and product shipment and is also supplied upon request. It should be read and understood by all supervisory personnel and employees before using this product. If there is any doubt please contact Lonza for advice.

Any data relating to test organisms included in this publication relates to standard laboratory test species and is provided for information only. No claim of controlling organisms in public health applications is made by the inclusion of such data nor should it be implied.

Application

For product application and formulation information please refer to Proxel™ AQ Preservative product labeling.

For information on spills, call 1 800 654 6911.

For more information, visit www.lonza.com

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