

Proxel[®] BC Preservative

Summary

Proxel[®] BC Preservative, an aqueous dispersion of a blend of 1,2-Benzisothiazolin-3-one (BIT), 5-Chloro-2-methyl-4-isothiazolin-3-one (CMIT), and 2-Methyl-4-isothiazolin-3-one (MIT), is an antibacterial/antifungal preservative for aqueous compositions such as latex emulsions, paints, water based adhesives, aqueous mineral slurries, dyes & inks, household cleaning products, and building materials such as spackle and tape joint compound.

Proxel[®] BC Preservative is registered with the Environmental Protection Agency and has been granted EPA registration No. 1258-1336.

General

Many aqueous industrial compositions can support the growth of a wide range of bacteria and fungi. These organisms can chemically destroy the components of these formulations and render them unusable. High water content formulations are especially prone to microbial contamination and can be difficult to recover if they become contaminated.

Proxel[®] BC Preservative is effective against both bacterial and fungal organisms, and it will prevent growth even at high concentrations of these organisms.

Proxel[®] BC Preservative, with different modes of action of the active agents, is particularly effective in preserving a wide range of industrial aqueous based products from bacterial and fungal spoilage.

Proxel[®] BC Preservative exhibits the following characteristics:

- Effective control of a wide range of bacterial and fungal organisms at economic concentrations.
- Rapid reduction of microbial populations
- Ease of use due to its liquid form and compatibility in most aqueous systems.

Properties of Proxel[®] BC Preservative

Composition	An aqueous dispersion of 1,2-Benzisothiazolin-3-one, 5-Chloro-2-methyl-4-isothiazolin-3-one (CMIT), and 2-Methyl-4-isothiazolin-3-one (MIT).
Physical Form	Liquid
Viscosity (25° C) Brookfield	1800 – 3500 cps
pH (25° C)	2.0 – 6.0
Density (25° C)	1.033 g/cm ³
Boiling Point	100° C
Storage Stability	Stable under normal storage conditions down to 0° C. If frozen, allow to thaw and stir well before use. Compatibility Avoid strongly alkaline conditions, and incompatible with some oxidizing and reducing agents.

Directions for Use

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Proxel® BC Preservative is an effective preservative in most aqueous compositions. Typical applications, and the suggested range of concentrations on which trials can be based are:

Product	% Proxel® BC Preservative (Based on total weight of product)
Latices and polymer solutions: Synthetic and natural polymer lattices such as acrylic, styrene / butadiene, carboxylated styrene / butadiene, ethylene / vinyl acetate, and biopolymers intended for industrial use, such as xanthum gum, gum Arabic, guar gum, proteinderived, starches, and casein derived polymers.	0.05 – 0.50
Paints and stains: Including coatings for paper.	0.025 – 0.25
Adhesives: Carboxymehtylcellulose (CMC) and derivatives, animal glues, vegetable glues, adhesives based on gelatins and natural rubber and synthetic laticies. Also for tackifiers derived from rosin or hydrocarbon resins.	0.05 – 0.25
Aqueous Mineral Slurries: Including buffing compounds, waxes and putties, abrasive compounds, polishes, mineral slurries such as: titanium dioxide slurry, calcium carbonate slurry, and clay slurries.	0.025 – 0.25
Building Materials: Drywall joint compound, spackle, stucco, grout, glazing compounds, wood fillers, sealants, and caulks.	0.05 – 0.25
Pigments: Dyes, pigments, fountain solutions, and inks.	0.05 – 0.50
Pesticide formulations: (0.22 % maximum in the pesticide concentrate and 0.02 % maximum in the final solution applied to growing crops).	0.02 – 0.22

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Product	% Proxel® BC Preservative (Based on total weight of product)
Household Products: Floor cleaners, floor waxes and polishes, surface cleaners, window cleaners, dish detergents, laundry additives, stain removers, and car care products.	0.05 – 0.15
Raw Materials for Household Products: Silicone, surfactant and detergent concentrates. Added to the concentrate such that the final use dilution of the product will contain 0.05 – 0.22 %.	0.05 – 0.22

The concentration required to give protection depends on several factors. These include the susceptibility of the system to microbiological degradation, the extent to which microorganisms can gain access, the species involved, pH, temperature, and length of time for which protection is required.

For protection against bacterial and fungal attack, a concentration within the range of 0.025 – 0.5 % Proxel® BC Preservative is almost invariably sufficient.

Contact your local Lonza Representative for further information or to request samples. For product application and formulation information please refer to Proxel® BC Preservative product labeling.

For information on spills, call 1 800 654 6911.

For more information, visit www.lonza.com

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