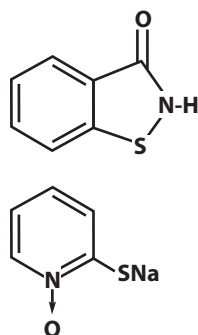


# Proxel<sup>®</sup> LS Preservative



Proxel<sup>®</sup> LS Preservative is a dual-active, broad-spectrum biocide for the wet-state preservation of industrial, water-based products that prevents spoilage caused by bacteria, yeasts and mold (fungi). It is an aqueous solution of 1,2-benzisothiazolin-3-one and sodium pyrrithione with a pale yellow appearance. The preservative is pH- and temperature-stable and can be easily incorporated into a wide range of industrial products. Proxel<sup>®</sup> LS Preservative benefits from the use of two complementary active ingredients, providing an enhanced antimicrobial efficacy. Proxel<sup>®</sup> LS Preservative is registered with the US Environmental Protection Agency, EPA Reg. No. 1258-1366.

## Applications

Proxel<sup>®</sup> LS Preservative benefits from dual-active ingredients with complementary modes of action, making it highly effective in preserving a wide range of industrial, aqueous-based products from spoilage. Application areas include:

- Paints
- Polymer emulsions
- Mineral slurries
- Adhesives
- Pigment dispersions & inks

### Typical Physical Properties

Composition	An aqueous solution containing 1,2-benzisothiazolin-3-one and sodium pyrrithione
Physical Form	Clear to pale yellow liquid
pH at 20°C	pH 9.0–9.5
Boiling Point (°C)	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.
Density at 20°C	1.13 gm/ml
Compatibility	Compatible and effective over pH range 4.5–11. Stable in the presence of amines. Incompatible with some oxidising and reducing agents e.g. persalts, sulphites

## Amount to Use

A range of concentrations and applications is suggested in Table 1; however, it is recommended that a testing program be undertaken to determine the most cost-effective dose for your application. Testing should take into account chemical compatibility/stability, plant hygiene conditions, susceptibility of the product to contamination and the typical organisms involved.

Table 1. Example Applications

Product	Suggested Concentration % (w/w)
Synthetic Polymer Emulsions	0.1–1.0
Water based paints, stains & coatings	0.2–2.0
Water-Based Adhesives	0.1–0.5
Mineral Slurries	0.1–2.0
Pigment dispersions & inks	0.25–2.5

## Technical Service

Lonza's technical service laboratories can assist with compatibility and performance testing of Proxel® LS Preservative as part of our customer support program. Please contact Lonza to take advantage of these customized services.

## General Recommendations

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 0.1–2.5% Proxel® LS Preservative is almost invariably sufficient.

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

For information on spills, call 1 800 654 6911.

For more information, visit [www.lonza.com](http://www.lonza.com).

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