

# PROXEL™ BZ Preservative

## Summary

PROXEL™ BZ Preservative, an aqueous dispersion of a synergistic blend of 1-2-benzisothiazolin-3-one and zinc 2-pyridinethiol-1-oxide, is an antibacterial/antifungal preservative for aqueous compositions such as latex emulsions, paints, water based adhesives, aqueous slurries such as titanium dioxide and clay, and tape joint compounds.

PROXEL™ BZ Preservative is registered with the Environmental Protection Agency and has been granted EPA registration No. 1258-1257.

## 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 solids formulations are especially prone to fungal contamination and cannot be suitably controlled by bactericides. PROXEL™ BZ Preservative is effective against both types of microbes and will prevent growth of even high concentrations of fungal organisms.

PROXEL™ BZ Preservative is an effective preservative against growth of bacteria and fungi in the aqueous systems indicated and exhibits:

- Effective control of a wide range of bacterial and fungal organisms at economic concentrations.
- Long-term storage stability.
- Ease of use due to its liquid form and excellent compatibility in most aqueous systems.

## Properties PROXEL™ BZ Preservative

Composition	An aqueous dispersion of 1-2-benzisothiazolin-3-one and zinc 2-pyridinethiol-1-oxide
Physical Form and Appearance	Fawn colored slurry
Viscosity at (25°C)	1000-2000 cps
pH, 5% (25°C)	6.16 (approx.)
Specific Gravity (25°C)	1.09 lb/gal (approx.)

## Directions for Use

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

PROXEL™ BZ 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™ BZ Preservative (based on total weight of product)
Latices: Polymer latices based on acrylate, butadiene, PVA and styrene for various applications	0.025-0.20
Emulsion Paint: For in-can preservation	0.01-0.15
Adhesives: Carboxymethylcellulose (CMC) and derivatives, animal glues, adhesives based on gelatins and latex	0.025-0.30
Aqueous Mineral Slurries: TiO <sub>2</sub> , Calcium carbonate, Clay	0.025-0.25
Tape Joint Compounds: Wallboard, spackling and drywall joint products	0.05-0.25
Pigment Dispersions:	0.10-0.40

## 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 0.025-0.40% PROXEL™ BZ Preservative is almost invariably sufficient.

### KEEP OUT OF REACH OF CHILDREN

### DANGER

### PRECAUTIONARY STATEMENTS

### HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS

Corrosive, causes eye damage. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. May cause allergic skin reaction. Harmful if swallowed or absorbed through the skin. Avoid contact with skin or clothing. In the case of contact, immediately flush eyes or skin with plenty of water. Avoid contamination of food.

### First Aid

If in Eyes	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses. If present, after the first 5 minutes, then continue rinsing the eye. Call a poison control center or doctor for treatment advice.
If on Skin or Clothing	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If Swallowed	Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

### MEDICAL EMERGENCY INFORMATION CENTER

1-800-286-7850

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

## Note to Physician

Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

## Environmental Hazards

This product is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

## Storage and Disposal

### Prohibitions

DO NOT contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

### Storage

Protect from frost. If frozen, allow to thaw and stir well before use.

### Pesticide Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

## Container Disposal

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

## Safe Handling Information

Refer to the Material Safety Data Sheet (MSDS) available from Lonza Microbial Control for information on the safe use, handling and disposal of this product.

## Application

For product application and formulation information please refer to PROXEL™ BZ 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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Use biocides safely. Always read the label and product information before use. The products described herein may not be registered or may be registered only for certain uses in your country.

The product information herein corresponds to our knowledge on the subject at the date of publication and we assume no obligation to update it. It is offered without warranty, either expressed or implied, regarding its accuracy or the results to be obtained from the use of such information and is intended for use by persons who are experienced and knowledgeable in the field and capable of determining the suitability of ingredients for their specific applications. Republication of the statements made herein is prohibited. No claims are made herein for any specific end-use application, and use of the information herein is the sole responsibility of the user based on his or her independent evaluation. Any data relating to test organisms included herein 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 any such claim be implied. The user should perform appropriate tests to determine the suitability and efficacy of our products in the user's application and conditions of use. The information we provide is not intended to substitute for such testing. The user assumes all risks of use and handling and accepts full responsibility for compliance with all applicable Federal, state and local laws and regulations. The information we provide is not intended and should not be construed as a license to operate under or a recommendation to infringe any patent or other intellectual property right, and the user should ensure that his or her use does not infringe any such rights. Our products are for industrial use only. WE MAKE NO WARRANTY (INCLUDING AS TO MERCHANTABILITY OR FITNESS FOR PURPOSE) OF ANY KIND, EXPRESS OR IMPLIED, OTHER THAN THAT OUR PRODUCTS CONFORM TO THE APPLICABLE PRODUCT SPECIFICATIONS.

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