

# PROXEL® BZ Plus Preservative

TECHNICAL  
INFORMATION BULLETIN

## SUMMARY

**PROXEL BZ Plus Preservative**, an aqueous dispersion of a blend of 1,2-Benzisothiazolin-3-one & zinc 2-pyridine-thiol-1-oxide, is an antibacterial/anti-fungal 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 Plus Preservative** is registered with the Environmental Protection Agency and has been granted EPA registration No. 1258-1326.

## 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 Plus Preservative** is effective against both types of microbes and will prevent growth of even high concentrations of fungal organisms.

**PROXEL BZ Plus Preservative**, which contains active agents that have two very different modes of action, is particularly effective in preserving a wide range of industrial aqueous based products from bacterial and fungal spoilage.”

**PROXEL BZ Plus Preservative** exhibits:

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

## PROPERTIES OF PROXEL BZ PLUS PRESERVATIVE

<b>Composition:</b>	An aqueous dispersion of 1-2-benzisothiazolin-3-one and zinc 2-pyridinethiol-1-oxide.
<b>Physical Form:</b>	Liquid
<b>Viscosity (25°C):</b>	
<b>Brookfield:</b>	3500-5000 cP
<b>pH (25°C):</b>	6.0 - 8.5
<b>Density (25°C):</b>	1.08 g/cm <sup>3</sup>
<b>Boiling Point:</b>	100°C
<b>Storage Stability:</b>	Stable under normal storage conditions down to 0°C. If frozen, allow to thaw and stir well before use. The active agents are heat stable and non-volatile.
<b>Compatibility:</b>	Avoid strong alkaline conditions. Incompatible with some oxidizing and reducing agents. Formulation is stabilized against transchelation in the presence of transition metals.

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## DIRECTIONS FOR USE

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

PROXEL BZ Plus 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 Plus Preservative (based on total weight of product)
<b>Polymer Latex:</b> Polymer lattices based on acrylate, butadiene, PVA and styrene for various applications.	0.04-0.70
<b>Paints &amp; Stains:</b>	0.025-0.80
<b>Adhesives:</b> Carboxymethylcellulose (CMC) and derivatives, animal glues, adhesives based on gelatins and latex.	0.04-0.85
<b>Aqueous Mineral Slurries:</b> Mineral slurries such as calcium carbonate, clay, titanium dioxide	0.025-0.75
<b>Tape Joint Compounds:</b> Wallboard, spackling and drywall joint products	0.05-0.80
<b>Pigment Dispersions:</b>	0.05-0.85

## 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 – 0.85% PROXEL BZ Plus Preservative is considered sufficient.

## KEEP OUT OF REACH OF CHILDREN

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER** Corrosive, causes irreversible 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. May be fatal if swallowed. Harmful if absorbed through the skin.

#### AVOID CONTACT WITH SKIN OR CLOTHING.

#### STATEMENT OF PRACTICAL TREATMENT

**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.

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## MEDICAL EMERGENCY INFORMATION CENTER

1-800-654-6911

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

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

## 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.

Triple rinse as follows; Empty remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over to its other end and tip it back and forth several times. Empty the rinsate into application equipment or mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

## CONTAINER DISPOSAL

Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container promptly after emptying. 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 Arch Biocides for information on the safe use, handling and disposal of this product.

For literature, sample and order information, please contact our Customer Service office: 1-800-523-7391.

## APPLICATION

For product application and formulation information please refer to **PROXEL<sup>™</sup> AQ Preservative** product labeling.

For information on spills, call 1-800-654-6911.

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

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Use biocides safely. Always read the label and product information before use.

Some Arch<sup>®</sup> biocides may not be registered or registered for only certain uses in your country.

No statement herein is intended as a representation or warranty regarding PROXEL products or any other product of Arch Chemicals, Inc.

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## Arch Biocides

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