

Proxel™ BD20 Preservative

Summary

Proxel™ BD20 Preservative, an aqueous dispersion of 1,2-benzisothiazolin-3-one, is an efficient microbiostat preservative for aqueous compositions such as oil in water emulsions, latices, emulsion paints, water based adhesives, casein and rosin dispersions, textile spin-finish solutions, pesticide formulations, aqueous slurries, titanium dioxide slurries, tape joint compounds, leather processing solutions, and for the preservation of fresh animal hides and skins.

Proxel™ BD20 Preservative is registered with the Environmental Protection Agency and has been granted EPA Registration No. 1258-1260. Its components are also cleared by EPA for use under 40 CFR CFR 180.920 (d) for agricultural use.

General

Many aqueous dispersions and emulsions can be seriously impaired during storage and use due to the growth in them of bacteria and fungi.

Proxel™ BD20 Preservative is an effective preservative against growth of these microbial agents in the aqueous systems listed and exhibits:

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

Properties of Proxel™ BD20 Preservative

Composition	An aqueous dispersion of 1,2-benzisothiazolin-3-one at 19.3% (range 18.8–19.8) in very fine particle form.
Physical Form and Appearance	Off white liquid
Viscosity (25°C) Brookfield	2000 cps (approx)
Specific Gravity (25°C/ 25°C)	1.04 (approx)
pH, (25°C)	7.0 (approx)
Density (25°C)	9.0 lb/gal (approx)
Initial Boiling Point	100°C
Solubility	Soluble in water at use dilutions
Stability	Stable under all normal storage conditions. Maintain the pH above approximately 4. The active agent is heat stable and non-volatile. Protect from frost.

Directions for Use

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

Proxel™ BD20 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™ BD20 Preservative (based on total weight of product)
Latices: Polymer latices based on acrylate, butadiene, PVA and styrene for various applications, e.g., wax, floor polishes, synthetic/rubber latices.	0.05–0.15
Oil-in-Water Emulsions: "Spin finish" solutions for use in the textile industry. Cutting/rolling oils. Soluble oils (metal and engineering industries).	0.05–0.18
Emulsion Paint: For preservation in the can.	0.05–0.25
Adhesives: Carboxymethylcellulose (CMC) and derivatives, animal glues, adhesives based on gelatin and latex.	0.05–0.25
Paper Coating Compositions: Rosin dispersions. Starch and casein based products.	0.05–0.15
Aqueous Mineral Slurries	0.04–0.25
Tape Joint Compound	0.08–0.25
Pesticide Formulations: For product preservation. For ultimate use – dilution protection.	0.10–0.50

NOTE: Standard suggested concentrations only; specific concentration is subject to each user's analysis of the particular application environment.

Proxel™ BD20 Preservative is exempt from tolerance under 40CFR CFR 180.920(d); materials exempted from the requirements of a tolerance when used in accordance with good agricultural practice as inert (or occasionally active) ingredients in pesticide formulations applied to growing crops only. Based on the current CFR 180.920(d) limit of 0.1% BIT in formulations, use levels up to 0.5% (5000 ppm) Proxel™ BD20 Preservative are allowed.

Preservation of Fresh Animal Hides and Skins

To preserve the integrity of fresh animal hides and skins prior to or during processing, use 13 fluid ounces to 2.5 gallons (1.0–24 lbs) of Proxel™ BD20 Preservative per 1000 pounds of hides or skins. Add the appropriate quantity of Proxel™ BD20 Preservative to the brine solution during the curing operation or treat hides or skins with an appropriately diluted aqueous solution during other portions of the processing operation. The specific use rate and contact time needed to control microbial attack will depend upon the degree of decomposition of the hides or skins prior to treatment.

Leather Processing Solutions

Use Proxel™ BD20 Preservative at levels of 0.05–0.25% for the preservation of leather processing solutions.

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

For protection against bacterial attack, a concentration within the range 0.02–0.50% Proxel™ BD20 Preservative is almost invariably sufficient.

The control of mold growth, particularly on paste products of high solids content, may occasionally demand dosages above 0.25%.

In dilute fluid systems, spoilage is usually controlled with dosages not greater than 0.09%.

KEEP OUT OF REACH OF CHILDREN

DANGER

PRECAUTIONARY STATEMENTS

HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS

Corrosive. Causes eye and skin damage. May cause allergic skin reaction. Do not get in eyes. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed or absorbed through the skin. Avoid contamination of food.

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 immediately 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.

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. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply in marine and estuarine oil fields.

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 Safety Data Sheet from Lonza for information on the safe use, handling and disposal of this product.

Application

For product application and formulation information please refer to Proxel™ BD20 Preservative product labeling.

For information on spills, call 1 800 654 6911.

For more information, visit www.lonza.com.

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