

PROXEL® GXL

Industrial Microbiostat

For Industrial Use Only as a Microbiostat Preservative for Aqueous Compositions such as Oil in Water Emulsions, Latices, Emulsion Paints, Water Based Adhesives, Casein/Rosin Dispersions, Textile Spin-finish Solutions, Pesticide Formulations, Aqueous Slurries, Titanium Dioxide Slurries, Tape Joint Compound, Leather Processing Solutions, and for the Preservation of Fresh Animal Hides and Skins.

**Precautionary Statements
Hazards to Humans and
Domestic Animals**

DANGER

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

ENVIRONMENTAL HAZARDS: This product is toxic to fish. Do not discharge into lakes, streams, ponds, or public waters unless in accordance with an NPDES permit. For guidance contact your Regional Office of the EPA. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply in marine or estuarine oil fields.

Active ingredient:
1,2-Benzisothiazolin-3-one..... 19.3
Inert ingredients..... 80.7
CONTENTS: 45 LBS. NET MINIMUM
(approx. 5 U.S. gal.)

KEEP OUT OF REACH OF CHILDREN DANGER

STATEMENT OF PRACTICAL TREATMENT: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes call a physician. Remove and wash contaminated clothing before reuse. If swallowed, drink promptly large quantities of water. Avoid alcohol. Call a physician immediately.

NOTE TO PHYSICIAN: Possible mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

**SEE ADDITIONAL PRECAUTIONS
ON SIDE PANEL**

EPA Reg. No. 10182-30
EPA Est. No. 10182-NC-002

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. See T.J. Bulletin 64-0000-013 for directions for use.

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.

MANUFACTURED BY

ZENECA Inc.

PO Box 751
Wilmington, Delaware 19897

(302) 886-3000

PROXEL is a registered trademark of ZENECA Inc.

NET WEIGHT: 400 KG.

PRODUCT CODE: 08284

ACCEPTED

OCT 28 1994

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 10182-30

BEST AVAILABLE COPY



PROXEL® GXL Preservative

SUMMARY

PROXEL® GXL preservative aqueous solution of 1,2 benzisothiazolin-3-one (BIT), 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 GXL is registered with the Environmental Protection Agency and has been granted EPA Registration No. 10182-30. Its components are also cleared by EPA for use under 40 CFR 180.1001 (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 such as:

- | | |
|-----------------------------------|----------------------------------|
| <i>Staphylococcus aureus</i> | <i>Pseudomonas</i> |
| <i>Salmonella typhi</i> | <i>aeruginosa</i> |
| <i>Klebsiella pneumoniae</i> | <i>Rhizopus stolonifer</i> |
| <i>Bacillus subtilis</i> | <i>Aspergillus penicilloides</i> |
| <i>Bacillus megaterium</i> | <i>Aspergillus niger</i> |
| <i>Escherichia coli</i> | <i>Alternaria radicina</i> |
| <i>Enterococcus faecalis</i> | <i>Tricophyton</i> |
| <i>Streptococcus lactis</i> | <i>mentagrophytes</i> |
| <i>Enterobacter cloacae</i> | <i>Serratia marcescens</i> |
| <i>Pseudomonas fluorescens</i> | <i>Saccharomyces cerevisiae</i> |
| <i>Rhodopseudomonas capsulata</i> | <i>Saccharomyces turbidans</i> |
| <i>Proteus vulgaris</i> | <i>Aureobasidium pullulans</i> |
| <i>Penicillium notatum</i> | <i>Cladosporium herbarum</i> |

PROXEL GXL is an effective preservative against growth of the above microbial agents in the aqueous systems listed and exhibits:

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

PROPERTIES OF PROXEL GXL

Composition: A solution of 1,2 benzisothiazolin-3-one (BIT) at 19.3% in di-propylene glycol and water.

Physical Form and Appearance: Dark brown liquid

Viscosity (25°C): 500 centipoise (approx.)

Brookfield: 500 centipoise (approx.)

Specific Gravity (25°C/25°C): 1.13 (approx.)

pH, 10% (25°C): 12 (approx.)

Density (25°C): 9.5 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.

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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 GXL 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 GXL (based on total weight of product)
Latices: Polymer latices based on acrylate, butadiene, PVA and styrene for various applications, e.g., wax, floor polishes, 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

*We suggest that the addition to metal-working fluid concentrates of PROXEL GXL should be limited to 1.5% maximum. This will give a maximum recommended use level of 0.15% PROXEL GXL in a 10:1 dilution of the concentrate and reduce the possibility of skin sensitization. Do not use in metal-working fluids in California.

Product	% PROXEL GXL (based on total weight of product)
Emulsion paint: For preservation in the can	0.05-0.15
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
Pesticide formulations: For product preservation For ultimate use — dilution protection	0.05-0.25

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PROXEL GXL is exempt from tolerance under 40CFR 180.1001(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 180.1001(d) limit of 0.1% BIT in formulations, use levels up to 0.5% (5000ppm) PROXEL GXL are allowed.

Product	% PROXEL GXL (based on total weight of product)
Aqueous Mineral Slurries	0.04-0.125
Tape joint compound:	0.08-0.25

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 GXL per 1000 pounds of hides or skins. Add the appropriate quantity of PROXEL GXL to the brine solution during 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 GXL at levels of 0.025-0.2% for the preservation of leather processing solutions.

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 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 0.02-0.35% PROXEL GXL 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%.

495

KEEP OUT OF REACH OF CHILDREN

DANGER

Precautionary Statements

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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Statement of Practical Treatment: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. If irritation continues call a physician. Remove and wash contaminated clothing before reuse. If swallowed, drink promptly large quantities of water. Avoid alcohol. Call a physician immediately.

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

CAUTION: This product is toxic to fish. Do not discharge into lakes, streams, ponds or public waters unless in accordance with an NPDES permit. For guidance contact your 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 the pesticide residue remaining in the container 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 ICI Americas Inc. for information on the safe use, handling and disposal of this product.

For literature, samples and order information, please contact Customer Services: 800-523-7391.

For technical information, please contact:
ICI Specialties
Application Research and Technical Services
Wilmington, Delaware 19897
(800) 822-8215 extension 8428

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PROXEL is a registered trademark of Imperial Chemical Industries PLC.

FOR YOUR PROTECTION

ICI Americas Inc. ("ICI") warrants that this product conforms to the chemical description on the label and that it is reasonably fit for the purposes stated on the label when used in accordance with ICI's directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to ICI, and the buyer or user assumes the risk of any such use. ICI DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING

ANY WARRANTY OF MERCHANTABILITY. (Statements herein, therefore, should not be construed as representations or warranties.)

IN NO EVENT SHALL ICI BE LIABLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING LOST PROFITS, ON ANY THEORY WHATSOEVER, INCLUDING NEGLIGENCE, and ICI's sole liability and Buyer's and User's exclusive remedy shall be limited to the refund of the purchase price. Statements concerning the use of products or the formulations

described therein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is assumed.



Biocides

Wilmington, Delaware 19897