

72674-17

8/29/2002

Page 185

**PROXEL<sup>®</sup> XL 2****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, CASEINROSIN 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 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 CONTACT WITH SKIN OR CLOTHING.

**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 POLLUTION 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.

**ACTIVE INGREDIENT:**

1,2-BENZISOTHIAZOLIN-3-ONE.....9%

INERT INGREDIENTS.....91%

**KEEP OUT OF REACH OF CHILDREN.****DANGER****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 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. 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.

**DIRECTIONS FOR USE**

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING. SEE TECHNICAL INFORMATION BULLETIN 00034 FOR DIRECTIONS FOR USE.

**STORAGE AND DISPOSAL PROHIBITIONS:**

DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL. OPEN DUMPING IS PROHIBITED.

**PESTICIDE 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.

**FOR INFORMATION ON SPILLS,  
CALL 1-800-424-2466**

SEE ADDITIONAL PRECAUTIONARY  
STATEMENTS ON SIDE PANEL

CONTENTS:  
(APPROX.

LBS. NET MINIMUM  
U.S. GALLONS)

**MANUFACTURED BY:****Avecia**

Medical Emergency Information Center - 800-286-7850  
Chemical Emergency Response Center - 800-424-2466

P.O. Box 15457  
Wilmington  
Delaware 19850-5457  
USA  
800-435-8679

EPA REG. NO. 72674-17

LOT NUMBER:

PRODUCT CODE:

PROXEL is a registered trademark of Avecia Inc.

EPA EST. NO. 74637-GBR-001

**84185****ACCEPTED**

AUG 29 2002

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide, registered under  
EPA Reg. No. 72674-17

# ProXel<sup>®</sup> XL2

## Preservative

### Technical Information Bulletin

#### Summary

PROXEL<sup>®</sup> XL2, an aqueous solution 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 XL2 is registered with the Environmental Protection Agency and has been granted EPA Registration No. 72674-17. 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:

*Staphylococcus aureus*  
*Salmonella typhosa*  
*Klebsiella pneumoniae*  
*Bacillus subtilis*  
*Bacillus megaterium*  
*Escherichia coli*  
*Proteus vulgaris*

*Pseudomonas aeruginosa*  
*Rhizopus stolonifer*  
*Aspergillus penicilloides*  
*Aspergillus niger*  
*Alternaria radicina*  
*Tricophyton mentagrophytes*

PROXEL XL2 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 good compatibility in most aqueous compositions.

#### Properties of PROXEL XL2

Composition:	A solution of 1,2-benzisothiazolin-3-one at 9% in propylene glycol and water.
Physical Form and Appearance:	Brown liquid
Viscosity (10/25°C)	
15/7 Brookfield:	10 cps (approx.)
Specific Gravity (25°C/25°C):	1.08 (approx)
pH, 10% (25°C):	13.5 (approx)
Density (25°C):	9.5 lb/gal (approx)
Initial Boiling Point:	106°C
Solubility:	Soluble in water at use dilutions
Stability:	Stable under all normal storage conditions down to -10°C. If frozen, allow to thaw before use. Maintain the pH above approximately 4. The active agent is heat stable and non-volatile.

**ACCEPTED**

AUG 29 2002

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 72674-17

## Directions for Use

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

PROXEL XL2 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 XL2 (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.	0.10-0.30
Oil-in-water emulsions: "Spin finish" solutions for use in the textile industry. Cutting/ rolling oils. Soluble oils* (metal and engineering industries).	0.10-0.36

\*We suggest that the addition to metal-working fluid concentrations of PROXEL XL2 should be limited to 3% maximum. This will give a maximum recommended use level of 0.30% PROXEL XL2 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 XL2 (based on total weight of product)
Emulsion paint: For preservation in the can.	0.10-0.30
Adhesives: Carboxymethylcellulose (CMC) and derivatives, animal glues, adhesives based on gelatin and latex.	0.10-0.50
Paper coating compositions: Rosin dispersions. Starch and casein based products.	0.10-0.30
Pesticide formulations: For product preservation. For ultimate use - dilution protection.	0.10-0.50

PROXEL XL2 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 1.0% (10000 ppm) PROXEL XL2 are allowed.

Product	% PROXEL XL2 (based on total weight of product)
Aqueous Mineral Slurries	0.08-0.25
Tape joint compound	0.16-0.50

## Preservation of Fresh Animal Hides and Skins

To preserve the integrity of fresh animal hides and skins prior to or during processing, use 26 fluid ounces to 5 gallons (2.0-48 lbs) of PROXEL XL2 per 1000 pounds of hides or skins. Add the appropriate quantity of PROXEL XL2 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 XL2 at levels of 0.05-0.4% for the preservation of leather processing solutions.

## General Recommendations

The concentrations required to give protection depends on several factors. These include the susceptibility of the system to microbial 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 0.04-0.70% PROXEL XL2 is almost invariably sufficient.

The control of mold growth, particularly on paste products of high solids content, may occasionally demand dosages above 0.50%.

In dilute fluid systems, spoilage is usually controlled with dosages not greater than 0.18%.

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## 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 reactions. Do not get in eyes. Wear goggles or face shield and rubber gloves when handling. Harmful inhaled, swallowed or absorbed through the skin. 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 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.

#### 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.

#### 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.

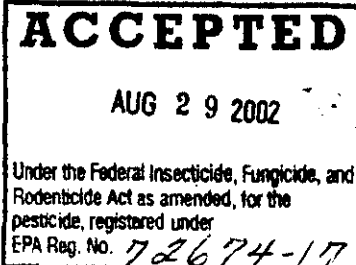
For information on spills, call 1-800-424-2466

#### Safe Handling Information

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

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

For more information, visit our website at [www.aveciabiocides.com](http://www.aveciabiocides.com).



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AUG 29 2002

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide, registered under  
EPA Reg. No. 72654-17



ISO 9002  
FS 22484

*PROXEL is a registered trademark of Avecia Inc.*

#### FOR YOUR PROTECTION

AVECIA Inc. ("AVECIA") 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 AVECIA'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 AVECIA, and the buyer or user assumes the risk of any such use. AVECIA DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WAR-

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

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#### Avecia Biocides

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