

72674-12

05/13/2003

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**PROXEL<sup>®</sup> DL****INDUSTRIAL MICROBIOSTAT**

A MICROBIOSTAT PRESERVATIVE FOR USE IN THE MANUFACTURE OF AQUEOUS COMPOSITIONS SUCH AS LATICES, OIL IN WATER EMULSIONS, (TEXTILE SPIN-FINISH SOLUTIONS, CUTTING OILS), EMULSION PAINTS, WATERBASE ADHESIVES, PAPER COATING COMPOSITIONS (CASEIN/ROSIN DISPERSIONS) AND PESTICIDE FORMULATIONS.

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND  
DOMESTIC ANIMALS**

**CORROSIVE.** CAUSES SEVERE EYE AND SKIN DAMAGE. MAY CAUSE ALLERGIC SKIN REACTIONS. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. WEAR GOGGLES OR FACESHIELD AND RUBBER GLOVES WHEN HANDLING. HARMFUL OR FATAL IF SWALLOWED. AVOID CONTAMINATION OF FOOD. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

**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 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.

**ACTIVE INGREDIENT:**

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

**INERT INGREDIENTS.....91%**

**DIRECTIONS FOR USE**

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING. SEE T. I. BULLETIN 64-0000-028 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 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**

**CONTENTS:**

**LBS. NET MINIMUM**

**(APPROX)**

**U.S. GALLONS)**

**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.

**SEE ADDITIONAL PRECAUTIONARY  
STATEMENTS ON SIDE PANEL**

**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. 72674-12  
EPA EST. NO. 67003-NC-01

**LOT NUMBER:**

**PRODUCT CODE:**

**84183**

**PROXEL is a registered trademark of Avecia Inc.  
MADE IN USA**

**ACCEPTED**

MAY 13 2003

Under the Federal Insecticide, Fungicide, and Rodenticide Act  
This product has been found to comply with the Act  
and is registered under FIFRA Section 24(c)  
EPA Reg. No. 72674-12

# Proxel<sup>®</sup> DL

## Liquid Preservative for Aqueous Systems

### Technical Information Bulletin

#### Summary

PROXEL<sup>®</sup> DL, an aqueous solution of 1,2-benzisothiazolin-3-one, is a microbiostat preservative for use in the manufacture of aqueous compositions such as oil in water emulsions (textile spin-finish solutions, cutting oils), latices, emulsion paints, water based adhesives, paper coating compositions (casein/rosin dispersions) and pesticide formulations.

PROXEL DL is registered with the Environmental Protection Agency and has been granted EPA Registration No. 72674-12.

#### 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*

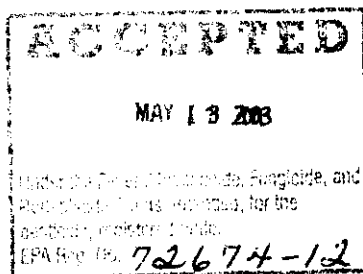
*Pseudomonas aeruginosa*  
*Rhizopus stolonifer*  
*Aspergillus penicilloides*  
*Aspergillus niger*  
*Alternaria radicina*  
*Tricophyton mentagrophytes*

PROXEL DL 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.
- Ease of use due to its liquid form and good compatibility in most aqueous compositions.

#### Properties of PROXEL DL

Composition:	A solution of 1,2 benzisothiazolin-3-one at 9.0% in dipropylene glycol and water.
Physical Form and Appearance:	Dark brown liquid
Viscosity (25°C)	
Brookfield:	10 centipoise (approx.)
Specific Gravity (25°C/25°C):	1.08 (approx)
Density (25°C):	8.9 lb/gal (approx)
pH, (25°C):	12 (approx)
Initial Boiling Point:	100°C
Solubility:	Soluble in water at use dilutions
Stability:	Dilute aqueous solutions are stable in the presence of electrolytes at pH down to approximately 4.



## Directions for Use

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

PROXEL DL 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 DL (based on total weight of product)
<b>Latices:</b>	0.1-0.3
Polymer latices based on acrylate, butadiene, PVA and styrene for various applications, e.g., wax, floor polishes, Synthetic/rubber latices.	
<b>Oil-in-water emulsions:</b>	0.1-0.36
"Spin finish" solutions for use in the textile industry. Cutting/rolling oils. Soluble oils* (metal and engineering industries).	
<b>Emulsion paint:</b>	0.1-0.3
For preservation in the can	
<b>Adhesives:</b>	0.1-0.5
Carboxymethylcellulose (CMC) and derivatives, animal glues, adhesives based on gelatin and latex	
<b>Paper coating compositions:</b>	0.1-0.3
(For use only as components of paper and paperboard)	
Rosin dispersions.	
Starch and casein based products	
<b>Pesticide formulations:</b>	0.1-0.5
For product preservation	
For use - dilution	

Based on the current limit of 0.1% 1,2-benzisothiazolin-3-one in pesticide formulations, use levels up to 1.0% (10,000 ppm) PROXEL DL are allowed.

## General Recommendations

The concentrations of PROXEL DL required to control microorganisms depends on several factors. These include the susceptibility of the system to microbial degradation, the extent to which microorganisms can gain access, the species involved, pH, temperature, and length of time for which control is required.

For protection against bacterial attack, a concentration within the range 0.04-0.7% PROXEL DL 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%.

**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, on skin or clothing. Wear goggles or face shield and rubber gloves when handling. Harmful or fatal if swallowed. Avoid contamination of food. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

## 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.

100-18-EP-12  
MAY 13 2003  
Under the provisions of the Federal Insecticide, Fungicide, and Rodenticide Act, this product has been found to be a pesticide under the provisions of the Act.  
EPA Reg. No. 72674-12

**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**

**Caution:** This product is toxic to fish. Do not discharge into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the 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 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.

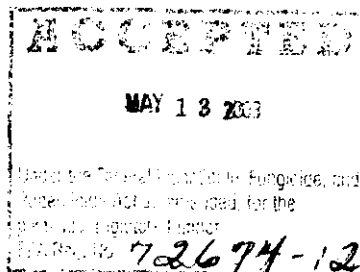
**For information on spills, call 1-800-424-2466**

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

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



ACCEPTED  
MAY 13 2008  
72674-12



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-

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**Avecia Biocides**  
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