

PROXEL® 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.

EPA REG. NO. 72674-12

EPA EST. NO. 67003-NC-01

MANUFACTURED BY:

ACTIVE INGREDIENT:

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

INERT INGREDIENTS.....91%

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 QUANTITY OF EGG WHITES, GELATIN SOLUTION OR IF THESE ARE NOT AVAILABLE, DRINK LARGE QUANTITIES OF WATER. AVOID ALCOHOL. CALL A PHYSICIAN IMMEDIATELY.

NOTE TO PHYSICIAN:

POSSIBLE MUCOSAL DAMAGE MAY CONTRAINDICATE THE USE OF GASTRIC LAVAGE.

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.

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.

CONTENTS:

(APPROX.)

LBS. NET MINIMUM

U.S. GALLONS)

ACCEPTED

NOV 08 2001

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 72674-12

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

REV. DATE: 10/20/99

LOT NUMBER:

PRODUCT CODE:

PROXEL is a registered trademark of Avecia Inc.

72674-12

11/8/2001

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EPA

PROXEL® DL**Liquid Preservative for
Aqueous Systems****Technical Information Bulletin**

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Summary

PROXEL® 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

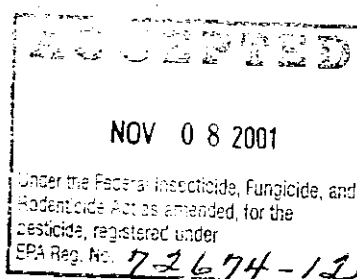
Pseudomonas aeruginosa
Rhizopus stolonifer
Aspergillus penicillioideus
Aspergillus niger
Alternaria radicina
Tricophyton mentagrophytes

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% 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)
Latices:	0.1-0.3
Polymer latices based on acrylate, butadiene, PVA and styrene for various applications, e.g., wax, floor polishes, Synthetic/rubber latices.	
Oil-in-water emulsions:	0.1-0.36
"Spin finish" solutions for use in the textile industry. Cutting/rolling oils. Soluble oils* (metal and engineering industries).	
*We suggest that the addition to metal-working fluid concentrations of PROXEL DL should be limited to 3.0% maximum. This will give a maximum recommended use level of 0.30% PROXEL DL in a 10:1 dilution of the concentrate and reduce the possibility of skin sensitization.	
Emulsion paint:	0.1-0.3
For preservation in the can	
Adhesives:	0.1-0.5
Carboxymethylcellulose (CMC) and derivatives, animal glues, adhesives based on gelatin and latex	
Paper coating compositions:	0.1-0.3
(For use only as components of paper and paperboard)	
Rosin dispersions.	
Starch and casein based products	
Pesticide formulations:	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 NOV 08 2001

DANGER

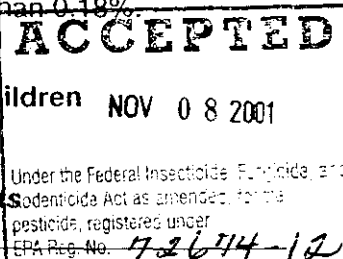
Precautionary Statements

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.

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 a large quantity of milk, egg whites, gelatin solution or if these are not available; drink large quantities of water. Avoid alcohol. Call a physician immediately.

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

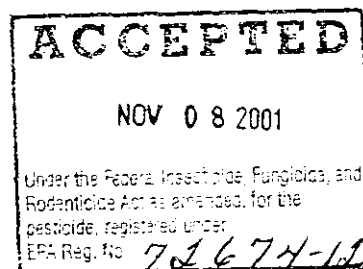
Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Safe Handling Information

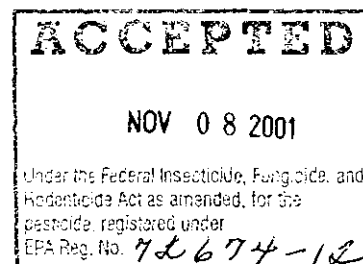
Refer to the Material Safety Data Sheet (MSDS) available from Avecia Biocides for information on the safe use, handling and disposal of this product.

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.



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ISO 9002
FS 22484

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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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.

Avecia Biocides

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