PROXEL® BD 20
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 ROBIN DISPERSIONS, TEXTILE SPIN-FINISH SOLUTIONS, PESTICIDE FORMULATIONS, AQUEOUS SLURRIES, TITANIUM DIOXIDE SLURRIES AND TAPE JOINT COMPOUND.

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. WEAR EYES PROTECTIVE EYEWEAR OR FACE SHIELD AND GLOVES WHEN HANDLING. HARMFUL IF SWALLOWED 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.

EPA REG. NO. 1258-1260
EPA EST. NO. 44816-MO-2

ACTIVE INGREDIENT:
1,2-BENZISOTHIAZOLONE S-ONE..................................15.0%
INSERT INGREDIENTS..............................................85.0%

KEEP OUT OF REACH OF CHILDREN
DANGER

FIRST AID
IF IN EYES:
HOLD EYES OPEN AND RINSE SLOWLY AND GENTLY WITH WATER FOR 15-30 MINUTES. REMOVE CONTACT LENSES, IF PRESENT. IF NO CONTACT LENSES ARE PRESENT, RINSE EYES FOR AN ADDITIONAL 30 MINUTES. IF CONJUNCTIVITIS OCCURS, CALL A PHYSICIAN OR TREATMENT CENTER.

IF ON SKIN OR CLOTHING:
WASH NOVAMICRIDE THOROUGHLY WITH PLenty OF WATER FOR 15-30 MINUTES. CALL A PHYSICIAN OR TREATMENT CENTER.

IF SWALLOWED:
CALL A POISON CONTROL CENTER OR DOCTOR IMMEDIATELY FOR TREATMENT ADVICE. HAVE PERSON DRINK 1-2 GLASSES OF WATER IF ABLE TO SWALLOW. DO NOT INDUCE VOMITING UNLESS TOLD TO DO SO BY A PHYSICIAN, POISON CONTROL CENTER OR DOCTOR. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

MEDICAL EMERGENCY INFORMATION CENTER:
1.800.498.8665

HOLD THE PRODUCT CONTAINER OR LABEL WITH YOU WHEN CALLING A PHYSICIAN OR TREATMENT CENTER.

NOTE TO PHYSICIAN:
PROXEL® MAY CONTRIBUTE THE USE OF GASTRO INTESTINAL DEPRESSION AND CONVULSIONS MAY BE NEEDED.

SEE ADDITIONAL PRECAUTIONARY STATEMENTS ON SIDE PANEL.

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 NO. 0284 FOR DIRECTIONS FOR USE.

STORAGE AND DISPOSAL PROHIBITION:
DO NOT CONTAMINATE WATER FOOD OR FEED BY STORING OR DISPOSING. OPEN DUMPING IS PROHIBITED.

PESTICIDE STORAGE:
PROTECT FROM FROST, IF FROZEN ALLOW TO THAW AND STIR WELL BEFORE USE.

PESTICIDE DISPOSAL:
PESTICIDE WASTES ARE ACUTE HAZARDOUS. IMPROPER DISPOSAL OF EXCESS PESTICIDE SPRAY MIXTURE OR RESIDUE IS A VIOLATION OF FEDERAL LAW. IF THESE WASTES CANNOT BE DISPOSED OF BY USE ACCORDING TO LABEL INSTRUCTIONS, CONTACT YOUR STATE PESTICIDE CONTROL 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 RECONSIDERING, OR DISPOSE OF IN A SANTANITY LANDFILL OR BY OTHER PROCEDURES APPROVED BY STATE AND LOCAL AUTHORITIES.

FOR INFORMATION ON SpILLS,
CALL 1.800.498.8665

CONTENTS: 50 LBS. NET MINIMUM

(Aprox. 8 U.S. GALLONS)

REV. DATE: 02/10/04

LOT NUMBER: 12345
PRODUCT CODE: 84315

PROXEL® is a registered trademark of Arch UK Bioceides, Ltd.
SUMMARY
PROXEL™ BD20, 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 BD20 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 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.

PROXEL BD20 is an effective preservative against growth of these 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 BD20
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: Fawn-colored, dispersion
Viscosity (25°C): 2000 cps (approx.)
Brookfield: 1.08 (approx)
Specific Gravity: 7.0 (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.
**PROXEL™ BD20**

Preservative

**DIRECTIONS FOR USE**

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

**PROXEL BD20** is an effective preservative in most aqueous compositions. Typical applications, and the suggested range of concentrations on which trials can be based, are:

<table>
<thead>
<tr>
<th>Product</th>
<th>% PROXEL BD20</th>
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<tbody>
<tr>
<td><strong>Latices:</strong></td>
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<tr>
<td>Polymer latices based on acrylate, butadiene, PVA and styrene for various applications, e.g., wax, floor polishes, Synthetic/rubber latices.</td>
<td>0.05-0.25</td>
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<td><strong>Oil-in-water emulsions:</strong></td>
<td>0.05-0.25</td>
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<td>“Spin finish” solutions for use in the textile industry, Cutting/rolling oils. Soluble oils (metal and engineering industries).</td>
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<tr>
<td><strong>Emulsion paint:</strong></td>
<td>0.05-0.25</td>
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<td>For preservation in the can.</td>
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<tr>
<td><strong>Adhesives:</strong></td>
<td>0.05-0.25</td>
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<tr>
<td>Carboxymethylcellulose (CMC) and derivatives, animal glues, adhesives based on gelatin and latex.</td>
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<tr>
<td><strong>Paper coating compositions:</strong></td>
<td>0.05-0.25</td>
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<tr>
<td>Rosin dispersions. Starch and casein based products.</td>
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<td><strong>Pesticide formulations:</strong></td>
<td>0.10-0.50</td>
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<td>For product preservation. For ultimate use – dilution protection.</td>
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**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 per 1000 pounds of hides or skins. Add the appropriate quantity of PROXEL BD20 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 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 0.02-0.35% PROXEL BD20 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.

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
1-800-654-6911

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.

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 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 1-800-654-6911.

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

For more information, visit our website at: www.archchemicals.com

PROXEL™ BD20
Preservative

SAFE HANDLING INFORMATION
Refer to the Material Safety Data Sheet (MSDS) available from Arch Chemicals, Inc. for information on the safe use, handling and disposal of this product.

FOR YOUR PROTECTION
Arch Chemicals, Inc. ("Arch") 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 Arch'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 Arch, and the buyer or user assumes the risk of any such use. ARCH DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY. Statements herein, therefore, should not be construed as representations or warranties.