

PM31

10182-385

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Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 2-28-95



United States  
Environmental Protection Agency  
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

### Application for Pesticide - Section I

1. Company/Product Number 10182-385	2. EPA Product Manager M. Johnson	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) PROMEXAL X 50 PRESERVATIVE	PM# 31	
5. Name and Address of Applicant (Include ZIP Code) Zeneca Inc. 1800 Concord Pike Wilmington, DE 19850-5457 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

### Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**NOTIFICATION**  
SEP 2 1996

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Correction of typographical error in range expression for aqueous based inks.  
Change from 0.25 - 0.20 to read 0.025 - 0.20

### Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	If "Yes" Unit Packaging wgt. No. per container		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Package wgt. No. per container			
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Mark E. Burt	Title Chemical Regulatory Specialist	Telephone No. (Include Area Code) (302) 477-8129
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Chemical Regulatory Specialist	
4. Typed Name Mark E. Burt	5. Date August 16, 1996	

# PROMEXAL X50 PRESERVATIVE

A preservative for use in the manufacture of aqueous compositions

## PRECAUTIONARY STATEMENTS HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS

### DANGER

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

### ENVIRONMENTAL HAZARDS:

This pesticide is toxic to highly 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.

EPA REG. NO. 10182-385  
EPA EST. NO. 33909-EN-4

### NOTE TO PHYSICIAN:

2-Methyl-4, 5-Trimethylene-4-Isothiazolin-3-One..... 5%  
Inert Ingredients ..... 95%

### KEEP OUT OF REACH OF CHILDREN

## DANGER

### STATEMENT OF PRACTICAL TREATMENT:

Wash thoroughly with soap and water after handling. 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 contraindicated the use of gastric lavage.

SEE ADDITIONAL PRECAUTIONS 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 T.I. Bulletin 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, puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

CONTENTS: 440.9 LBS. NET MINIMUM  
APPROX. 55 U.S. GALLONS

MANUFACTURED BY:

MADE IN UNITED KINGDOM

**ZENECA**  
Wilmington, Delaware 19897, USA  
(302) 386-3000  
A business unit of Zeneca Inc.

LOT NUMBER:

PRODUCT CODE:  
84250

PROMEXAL is a registered trademark of Zeneca Inc.

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# ZENECA Biocides

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## PROMEXAL® X50 Preservative

### Technical Information Bulletin

#### SUMMARY

PROMEXAL® X50 preservative, an aqueous solution of 2-Methyl-4,5-Trimethylene-4-Isothiazolin-3-one (MTI), is an efficient preservative for aqueous compositions such as oil in water emulsions, latices, emulsion paints, water based adhesives, casein and rosin dispersions, textile spin-finish solution, aqueous slurries, titanium dioxide slurries and tape joint compounds.

PROMEXAL X50 is registered with the Environmental Protection Agency and has been granted EPA Registration No. 10182-385.

#### GENERAL

Many aqueous dispersions and emulsions can be seriously impaired during storage and use due to the growth of bacteria and fungi such as:

<i>Staphylococcus aureus</i>	<i>Escherichia coli</i>
<i>Acinetobacter calcoaceticus</i>	<i>Enterobacter cloacae</i>
<i>Micrococcus luteus</i>	<i>Pseudomonas fluorescens</i>
<i>Klebsiella pneumoniae</i>	<i>Proteus rettegeri</i>
<i>Bacillus subtilis</i>	<i>Cladosporium herbarum</i>
<i>Aspergillus niger</i>	<i>Phoma violacea</i>
<i>Pseudomonas aeruginosa</i>	<i>Candida albicans</i>
<i>Aeromonas hydrophila</i>	<i>Rhodotorula rubra</i>
<i>Streptococcus faecalis</i>	<i>Serratia marcescens</i>
<i>Fusarium solani</i>	<i>Aureobasidium pullulans</i>
	<i>Penicillium rubrum</i>

PROMEXAL X50 is an effective preservative against growth of the above microorganisms in the aqueous systems indicated 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 excellent compatibility in most aqueous systems.

#### PROPERTIES OF PROMEXAL X50

Composition: A solution of 2-Methyl-4,5-Trimethylene-4-Isothiazolin-3-one (MTI) at 5% in water.

Physical Form and Appearance: Clear golden brown liquid  
Viscosity (20°C):  $1.444 \times 10^{-3}$  Pascal Seconds  
pH, 5% (20°C): 4.8 (approx.)  
Relative Density (25°C): 1.02 lb/gal (approx.)

**DIRECTIONS FOR USE**

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

PROMEXAL X50 is an effective preservative in most aqueous compositions. Typical applications, and the suggested range of concentrations on which trials can be based, are:

Product	% PROMEXAL X50 (based on total weight of product)
Latices: Polymer latices based on acrylate, butadiene, PVA and styrene for various applications.	0.05-0.30
Oil-in-water emulsions: "Spin finish" solutions for use in the textile industry. Cutting/rolling oils. Soluble oils (metal and engineering industries).	0.025-0.20
Emulsion paint: For in-can preservation.	0.025-0.15
Process rinse waters: washwater use to clean equipment storage tanks, printing heads, mixing vessels, etc.	0.025-0.10
Adhesives: (non-food contact only) Carboxymethylcellulose (CMC) and derivatives, animal glues, adhesives based on gelatins and latex.	0.10-0.30
Paper coating compositions: (non-food contact only) Rosin dispersions. Starch and casein based products.	0.025-0.30
Aqueous Mineral Slurries: TiO2 and Calcium carbonate.	0.05-0.15
Tape joint compounds: wallboard, spackling and drywall joint products.	0.05-0.15
Aqueous based inks:	0.025-0.20
Aqueous Industrial or Household Chemicals:	0.01-0.30

**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 0.025%-0.30% PROMEXAL X50 is almost invariably sufficient.

The control of mold growth, especially on paste products, may occasionally demand dosages above 0.30%.

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**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

*Precautionary Statements*

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

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

**ENVIRONMENTAL HAZARDS**

**CAUTION:** This product is toxic to highly 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.

**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.

**SAFE HANDLING INFORMATION**

Refer to the Material Safety Data Sheet (MSDS) available from ZENECA Biocides 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:

ZENECA Biocides  
1800 Concord Pike  
ARTS Building  
Wilmington, DE 19897  
800-456-3669 extension 2055

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**FOR YOUR PROTECTION**

ZENECA Inc. ("ZENECA") 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 ZENECA'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 ZENECA, and the buyer or user assumes the risk of any such use. ZENECA 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 ZENECA BE LIABLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING LOST PROFITS, ON ANY THEORY WHATSOEVER, INCLUDING NEGLIGENCE, and ZENECA'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.

**ZENECA Biocides**

1800 Concord Pike  
Wilmington, DE 19897

A business unit of ZENECA Inc.