

REPUTAIN®

A preservative for use in the manufacture of aqueous compositions, such as adhesives, tape joint compounds, synthetic polymer emulsions, aqueous slurries, industrial washwater, and metalworking fluids (rolling and cutting fluids).

Precautionary Statements
Hazards to Humans and
Domestic Animals

DANGER

KEEP OUT OF REACH OF CHILDREN

Corrosive. Causes irreversible eye damage. Causes skin burns. Harmful if inhaled. May be fatal if swallowed. Harmful if absorbed through skin. May cause skin sensitization. Do not get in eyes, on skin, on clothing, avoid breathing vapor. Do not swallow. Wear goggles, protective clothing, and rubber gloves. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish. Do not discharge effluent containing this active ingredient into lakes, streams, ponds, estuaries, oceans, or public 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 into sewer systems without notifying the sewage treatment plant authority. For guidance, contact your state water board or regional office of the EPA.

STORAGE AND HANDLING: REPUTAIN is corrosive to many commonly used materials of construction, such as steel, galvanized iron, aluminum, tin and zinc. These solutions can be stored and handled in baked phenolic-lined steel, or reinforced epoxy-plastic equipment. Protect from freezing. Store at temperatures less than 80°F. A stainless steel centrifugal pump is suggested for transfer service. Spiral wound stainless steel with TEFLON is suitable for gaskets and packing.

EPA Reg. No. 10182-359
EPA Est. No. 10182-NC-002

Active Ingredients:
Glutaraldehyde 46.5%
1, 2-Benzisothiazolin-3-one 02.9%
Inert Ingredients 50.6%

KEEP OUT OF REACH OF CHILDREN

DANGER

STATEMENT OF PRACTICAL TREATMENT:

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Get immediate medical attention.

IF ON SKIN: Immediately wash with plenty of soap and water. Get medical attention.

IF INHALED: Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, call a physician.

IF SWALLOWED: Do not induce vomiting. Do not give anything to drink. Seek medical advice with urgency.

NOTE TO PHYSICIAN:

Probable mucosal damage may contraindicate the use of gastric lavage. See left panel for additional statements.

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 REPUTAIN technical bulletin for directions for use.

STORAGE AND DISPOSAL

DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. 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 your Environmental Control Agency, or the hazardous waste representative at the nearest EPA regional office for guidance.

CONTAINER DISPOSAL: Metal containers or plastic containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or other procedures approved by state and local authorities. Do not cut, or weld on or near metal containers. Plastic containers: May be incinerated if allowed by state and local authorities. If burned, stay out of smoke. Metal containers: Must be incinerated.

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 the 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.

Manufactured by:

ZENECA

ACCEPTED

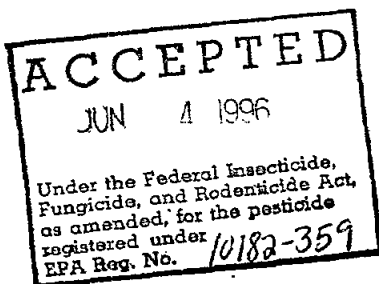
JUN 4 1996

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 10182-359

ZENECA Biocides
Wilmington
Delaware 19897 USA
(302) 886-3000
A business unit of Zeneca Inc.

2015

ZENECA Biocides



REPUTAIN™ Preservative

Technical Bulletin

SUMMARY

REPUTAIN™, an aqueous glutaraldehyde solution of 1,2 benzisothiazolin-3-one (BIT), is an efficient preservative for aqueous compositions such as tape joint compounds, adhesives, synthetic polymer emulsions, aqueous slurries, industrial washwater, and cutting and rolling fluids. REPUTAIN's EPA Registration Number is 10182-359.

GENERAL

Many aqueous dispersions and solutions can be seriously impaired during storage and use because of bacteria and fungi growth.

REPUTAIN is an effective preservative against growth of 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.
- Rapid antimicrobial activity.

PROPERTIES OF REPUTAIN

Composition: A solution of 1,2 benzisothiazolin-3-one (BIT) at 2.9% in aqueous glutaraldehyde (46.5%).

Physical Form

and Appearance: Brown liquid
Viscosity (20°C): 24 centipoise (approx.)
pH, 1.0% (20°C): 4 (approx.)
Density (20°C): 1.14 lb/gal (approx.)
Solubility: Soluble in water at use dilutions
Stability: Stable under all normal storage conditions. Protect from freezing and exposure to temperatures above 80°F.

DIRECTIONS FOR USE

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

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

Product	% REPUTAIN (based on total weight of product)
Adhesives/Tape Joint Compounds: Carboxymethylcellulose (CMC) and derivatives, animal glues, adhesives based on gelatin and latex	0.025-0.50
Metalworking fluids: Rolling and cutting fluids	0.005-0.30
Synthetic polymer emulsions	0.01-0.35
Aqueous Slurries: Kaolin, calcium carbonate and titanium dioxide and pigment slurries [Do not exceed 0.06% by weight of slurry solids when preserving pigment and filler slurries used in the manufacture of paper and paperboard in contact with food.]	0.005-0.30
Industrial Washwater: For use only in treatment of recirculated washwater used in the manufacture of industrial aqueous based products.	0.01-0.35

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 0.005-0.5% REPUTAIN is almost invariably sufficient.

In dilute fluid systems, spoilage is usually controlled with dosages not greater than 0.1%

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DANGER

Precautionary Statements

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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Wear goggles, protective clothing, and rubber gloves.

Wash thoroughly with soap and water after handling.

Remove contaminated clothing and wash before reuse.

Statement of Practical Treatment:

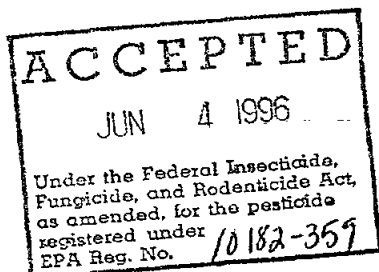
IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Get immediate medical attention.

IF ON SKIN: Immediately wash with plenty of soap and water. Get medical attention.

IF INHALED: Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, call a physician.

IF SWALLOWED: DO NOT INDUCE VOMITING. Do not give anything to drink. Seek medical advice with urgency.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.



ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not discharge effluent containing this active ingredient into lakes, streams, ponds, estuaries, oceans, or public 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 into sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

STORAGE AND HANDLING

REPUTAIN is corrosive to many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. These solutions can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment.

Protect from freezing. Store at temperatures less than 80°F.

A stainless steel centrifugal pump is suggested for transfer service. Spiral wound stainless steel with TEFLON® is suitable for gaskets and packing.

STORAGE AND DISPOSAL

Pesticide Disposal

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. 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

Metal containers or Plastic containers: 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. Do not cut, or weld on or near metal containers.

Plastic containers: may be incinerated, if allowed by state and local authorities. If burned, stay out of smoke.

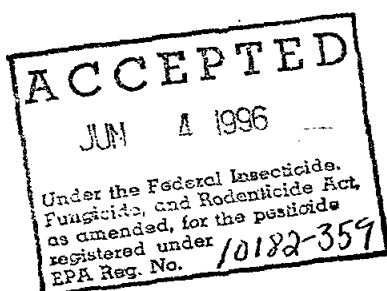
Metal containers: must not be incinerated.

SAFE HANDLING INFORMATION

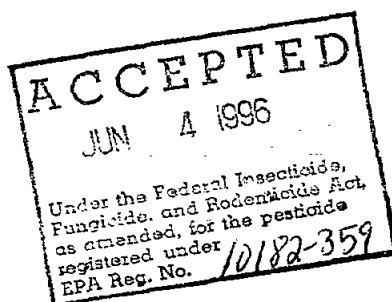
Refer to the Material Safety Data Sheet (MSDS) available from Zeneca Biocides for information on the safe use, handling and disposal of this product.

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

For technical information, please contact:
Zeneca Biocides
Application Research and Technical Services
Wilmington, Delaware 19897
(800) 822-8215 extension 8428



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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

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A business unit of ZENECA Inc.