



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

April 20, 2023

Kim Davis  
Consultant  
Reg West Company LLC  
Electronic Transmittal: [kim@regwest.com](mailto:kim@regwest.com)

Subject: Notification per PRN 98-10 – Add Distributor information, optional marking claims and alternate brand name  
Product Name: CAPPROTECT 100  
EPA Registration Number: 100414-1  
Received Date: October 26, 2022  
Action Case Number: 00403660

Dear Kim Davis:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Assurance.

The alternate brand name “**CONTRAM MB788**” has been added to the product record.

If you have any questions, please contact Zebora Johnson at (202) 566-0730 or by email at [johnson.zebora@epa.gov](mailto:johnson.zebora@epa.gov).

Sincerely,  
*Zebora Johnson*  
For  
Steven Snyderman  
Product Management 33  
Antimicrobials Division (7510M)

# CAPPROTECT 100

{Alternate Brand Names: CAPPROTECT-100 and CONTRAM™ MB7188}

For Direct Incorporation into Plastic, Rubber, Construction Materials and Coatings for  
Further Processing and Preservation of Metalworking Fluids

## NOTIFICATION

100414-1

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

04/20/2023

### Active Ingredient:

N-Butyl-1,2-benzisothiazolin-3-one ..... 98.3%

Other Ingredients ..... 1.7%

Total ..... 100.0%

**Keep Out of Reach of Children**

**DANGER/PELIGRO**

**Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.**

**(If you do not understand the label, find someone to explain it to you in detail.)**

*{Note to Reviewer: In accordance with 40 CFR 156.68(d), all first aid statements, as prescribed, will appear on the front panel of the product label.}*

### First Aid

<b>If in Eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on Skin or Clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Immediately rinse skin with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If Inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If Swallowed:</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. For general information on product use, etc., call the National Pesticides Information Center (NPIC) at 1-800-858-7378, 8:00 am-12:00 pm Pacific Time Monday-Friday; email: npic@ace.orst.edu; or website: http://npic.orst.edu/. You may also contact the Poison Control Center at 1-800-222-1222 for emergency medical treatment information.</p>	
<p><b>Note to Physician:</b> Probable mucosal damage may contraindicate the use of gastric lavage following ingestion.</p>	

*{Note: The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.}*

See side [back] [right] panel for additional Precautionary Statements.

EPA Reg. No. 100414-1

EPA Est. 100846-IND-1

Net Contents: \_\_\_\_\_ Gallons ( \_\_\_\_\_ Liters)

Manufactured for:  
**ForceChem Ltd.**  
58 Acacia Road  
London NW8 6AG  
United Kingdom  
Product of India

**Distributed in the U.S. for ForceChem Ltd. by**  
**Lubrizol Corporation**  
29400 Lakeland Boulevard  
Wickliffe, OH 44092  
(440) 943-4200

{Side [Back] Panel}

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

**DANGER: Corrosive.** Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Wear goggles or face shield, chemical-resistant gloves, coveralls or long-sleeved shirt and long pants, and shoes plus socks when handling this product. Do not breathe vapors or spray mist. Use with adequate ventilation. Wear a NIOSH certified respirator with an organic vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH-approved respirator with an organic vapor (OV) cartridge with an N, R, P or HE prefilter. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

### Environmental Hazards

*{For product packaged in containers less than 5 gallons:}*

This product is toxic to fish. Do not contaminate water by cleaning of equipment or disposal of wastes.

*{For product packaged in containers 5 gallons or greater:}*

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.

## DIRECTIONS FOR USE

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

This product is not registered for use as a sanitizer.

### Metalworking Fluids\*

This product [CAPPROTECT 100] is an effective fungicide in most aqueous metalworking fluids. Do not go above the application rate. Typical applications, and the suggested range of concentrations on which trials can be based, are:

**Fluid Concentrate:** Add this product [CAPPROTECT 100] to metalworking fluid concentrates at a level that ensures the final use dilution fluid contains 26 to 212 ppm of product (25 to 200 ppm active ingredient).

**Use Dilution Fluid:** Note that grossly contaminated systems may require mechanical removal of fungal masses and cleaning of the system before biocide treatment is begun.

**Initial Dose:** For a noticeably fouled system add 0.25 to 2 lbs (3.3 to 26.5 fl oz) of this product [CAPPROTECT 100] per 1000 gallons of fluid. This will generate a concentration of 25 to 200 ppm active agent.

**Subsequent Dose:** For maintenance of a clean system, add 0.047 to 0.31 lbs (0.62 to 4.1 fl oz) of this product [CAPPROTECT 100] per 1000 gallons of fluid on a periodic basis to maintain microbial control. This quantity will generate a fungicide concentration of 5 to 30 ppm active agent. The frequency of maintenance dosing will be affected by the amount of fluid lost to drag out and other displacements, the severity of the contamination, the system design, the effectiveness of system filtration and other system variables.

\*Not approved for use in California.

### Plastics

Many plastics are considered to be resistant to microbial attack, but there are significant exceptions that merit preventative action by the use of an antimicrobial additive. Plasticized PVC, polyurethane and silicones are particularly susceptible. The biodeterioration of products based on these types of plastics can be a serious problem

for manufacturers. Failure to add the proper amount of antimicrobial additive can lead to premature product failure due to loss of mechanical/adhesive strength or flexibility. Adverse aesthetic problems, such as a musty odor, permanent staining or microbial surface growth, can lead to customer complaints. This product [CAPPROTECT 100] is effective against the microbes that degrade plastics, plastic additives or natural rubber and can increase the useful life of articles made from these materials. This product [CAPPROTECT 100] is effective in most plastic compositions and can be used to preserve natural rubber, synthetic rubbers and elastomers, EPDM and such plastics as PVC, polyurethane, silicone, acrylics and others to produce articles such as coated fabric (e.g. ski wear, raincoats, tents, seat covers), floor coverings, underlay and mats, vinyl wall coverings, tarpaulins and awnings, roofing membranes, synthetic leather (e.g. sneakers and training shoe uppers), swimming pool liners, ornamental pond liners, appliance gaskets (e.g. washers, refrigerator), shoe soles, mid-soles and outers, sealants, sealers, coatings, caulks, weather stripping and non-food contact adhesives, pet toys and general household items (e.g. shower curtains, bath mats, sink drain mats, rubber or plastic coated wire shelving and dish drainers), auto parts (e.g. landau tops, door seals, shock absorbers), foam (e.g. seat cushions, gaskets, insulation), tubing (e.g. marine hose and sleeving), electrical and pipe wrap, furniture (e.g. outdoor, leisure, water bed liners, cushions, covered foam mattress padding, covered foam pillow cushions). Do not use this product [CAPPROTECT 100] to treat food/feed- or drinking water-contact items or toys. This product [CAPPROTECT 100] has been found to be an effective polymer preservative at concentrations of 0.03% to 1% based on the total weight of the substrate. The typical range of concentrations on which trials can be based are:

Application	Percent Antimicrobial [CAPPROTECT 100]**
Plasticized PVC	0.03 to 0.5%
Polyurethane	0.05 to 0.5%
Silicones	0.05 to 1%
Polyesters	0.05 to 1%
Polyolefins	0.05 to 1%
Acrylics	0.05 to 1%
Synthetic elastomers such as butadiene-styrene, styrene-isoprene and acrylonitrile-butadiene-styrene	0.03 to 1%
Natural latex rubber	0.03 to 0.5%

\*\*Based on total weight of final product

The concentration required to give protection depends on several factors including the susceptibility of the system to microbiological degradation, the extent to which micro-organisms can gain access, the species involved, pH, temperature, moisture and length of time for which protection is required. Do not go above the application rate.

#### **Incorporation of This Product [CAPPROTECT 100] into Polymers**

Do not use for any application involving direct or indirect food contact.

**PVC Plastics:** For addition to PVC plastics, this product [CAPPROTECT 100] may be added along with the other additives. Calculate use levels based upon the total weight of the formulation.

**Cross Linked Polyurethane:** For addition to cross linked polyurethane, add this product [CAPPROTECT 100] to the polyol at a concentration that will yield the desired use level in the final product after reaction with the isocyanate component. This product [CAPPROTECT 100] may also be incorporated at an injection port of a reaction injection molding ("RIM") machine.

**Melt Processed Polymers:** For addition to melt processed polymers (PVC, thermoplastic polyurethane, synthetic elastomers, thermoplastic acrylics, etc.), this product [CAPPROTECT 100] may be metered into the melt to yield the desired end-use concentration; for example, at the injection point in an extrusion system. Alternatively, this product [CAPPROTECT 100] may be made into a concentrated chip (as above at up to 20% this product [CAPPROTECT 100]) and these chips blended with non-preserved chips in the users' plant to yield the desired end-use concentration upon subsequent processing. For thermoplastic polyurethane, concentrated granules may also be produced by absorbing this product [CAPPROTECT 100] to granules through shear mixing (up to 20% this product

[CAPPROTECT 100]). These can be blended with non-preserved polymer chips in the users' plant to the desired use concentration and then further heat processed (i.e. via extrusion).

*{Only one of the following two paragraphs will be used on the market label:}*

**PVC:** This product [CAPPROTECT 100] may be added to the mixed liquid components or added to concentrate(s) that will be added to a blend of PVC resin and solids, shear mixed until a dry blend is achieved and then processed through extrusion, calendering, molding or other system. The concentrate must be used in proportion to untreated plastic and other inputs in the fabrication of plastic articles entering commerce so that the final concentration of active ingredient does not exceed the application rate range (0.03 to 0.5%) specified for the various plasticized PVC articles to be preserved.

**PVC:** This product [CAPPROTECT 100] may be added to the mixed liquid components or added to concentrate(s) that will be further processed to manufacture PVC articles or added to a blend of PVC resin and solids, shear mixed until a dry blend is achieved and then processed through extrusion, calendering, molding or other system. The concentrate must be used in proportion to untreated plastic and other inputs in the fabrication of plastic articles entering commerce to ensure the final concentration of active ingredient does not exceed the application rate range (0.03 to 0.5%) specified for the various plasticized PVC articles to be preserved.

**Acrylics:** In addition to the above, this product [CAPPROTECT 100] can be added to the liquid monomers before polymerization, at levels to yield the desired use level in the final product after polymerization.

**Silicone:** For silicone sealants, this product [CAPPROTECT 100] may be added to the silicone oil before processing or to the manufacturing vessel before packing off.

**Natural Rubber:** This product [CAPPROTECT 100] can be added to the latex.

Contact the ForceChem Ltd. technical service department for additional guidance on the proper use of this product [CAPPROTECT 100].

#### **Construction Materials\***

Many building construction materials support the growth of a wide range of bacteria, fungi and algae. The uncontrolled growth of these microorganisms either in the wet or dry stage can lead to aesthetic problems such as odor or surface staining or it can lead to premature product failure.

This product [CAPPROTECT 100] additive has been found to be an effective wet state preservative at concentrations of 0.01 to 0.05% and an effective dry state preservative at concentrations of 0.075 to 0.115%, based on the total weight of the substrate. Example end-use applications are:

For preservation of emulsions, dispersions, slurries and thickeners including latex emulsions, urethane dispersions, mineral or pigment slurries (such as clay, kaolin, calcium carbonate and titanium dioxide). For preservation of pulp/paper slurries and paper coating compositions including starch preparations, add 0.01 to 0.05% this product [CAPPROTECT 100]. Not for use in food contact paper products or paper coatings.

For preservation of coatings add 0.075 to 0.115% this product [CAPPROTECT 100]. Not for marine use.

For preservation of adhesives, tape joint compounds, spackle, stucco, grout, glazing compounds, fillers, sealants, caulks and weather stripping add 0.057 to 0.115% this product [CAPPROTECT 100]. Not for use in food-contact adhesives.

For preservation of manufactured paper and paperboard products, such as insulation facing, wallboard facing, stationeries and paper packaging add 0.075 to 0.115% this product [CAPPROTECT 100]. Not for use in food-contact paper products.

For preservation of gypsum, perlite, plaster-like or mineral and cellulose materials, ceiling tiles, partitions, drywall and wallboard add 0.075 to 0.115% this product [CAPPROTECT 100].

\*Not approved for use in California

*{For product in containers greater than 5 gallons (non-refillable container):}*

### Storage and Disposal

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

**Pesticide Storage:** Protect from frost. Do not freeze. If frozen, allow to thaw and stir well before use. **Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticides, 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 Management:** Non-refillable container; do not reuse or refill this container. Offer for recycling, if available. Triple rinse container promptly after emptying 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. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

*{For product in containers less than or equal to 5 gallons (non-refillable container):}*

### Storage and Disposal

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

**Pesticide Storage:** Protect from frost. Do not freeze. If frozen, allow to thaw and stir well before use. **Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticides, 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 Management:** Non-refillable container; do not reuse or refill this container. Offer for recycling, if available. Triple rinse container promptly after emptying 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. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Container Management:** Non-refillable container; do not reuse or refill this container. Offer for recycling, if available. Triple rinse container promptly after emptying 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. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

*{For product in totes (non-refillable container):}*

### Storage and Disposal

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

**Pesticide Storage:** Protect from frost. Do not freeze. If frozen, allow to thaw and stir well before use. **Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticides, 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 Management:** Non-refillable container; do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Fill container 1/4 full with water and reclose the container. Agitate vigorously and dispose of rinsate consistent with pesticide disposal instructions. Repeat two more times then offer for recycling, if available, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities. Follow pesticide disposal instructions for rinsate. If not triple rinsed, these containers are acute hazardous wastes and must be disposed of according with local, state and federal regulations.

**Container Management:** Non-refillable container; do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Fill container 1/4 full with water and reclose the container. Agitate vigorously and dispose of rinsate consistent with pesticide disposal instructions. Repeat two more times then offer for recycling, if available, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities. Follow pesticide disposal instructions for rinsate. If not triple rinsed, these containers are acute hazardous wastes and must be disposed of according with local, state and federal regulations.

*{Per PR Notice 2007-4 the batch code/lot number will appear on the label or container.}*

{Sample Size Container Label:}

**CAPPROTECT 100**

**Active Ingredient:**

N-Butyl-1,2-benzisothiazolin-3-one ..... 98.3%

**Other Ingredients** ..... 1.7%

Total ..... 100.0%

**Keep Out of Reach of Children**

**DANGER**

See accompanying label {or other descriptive term}  
for complete Directions for Use and Precautionary Statements.

EPA Reg. No. 100414-1

EPA Est. 100846-IND-1

Net Contents: 3.5 fl oz (0.1 L)

Manufactured for:  
**ForceChem Ltd.**  
58 Acacia Road  
London NW8 6AG  
United Kingdom  
Product of India

Distributed in the U.S. for ForceChem Ltd. by  
**Lubrizol Corporation**  
29400 Lakeland Boulevard  
Wickliffe, OH 44092  
(440) 943-4200

{End of Sample Size Container Label:}

{Graphic(s):}



UN 1760  
CORROSIVE LIQUID, N.O.S.  
(CONTAINS N-BUTYL-1,2-BENZISOTHIAZOLIN-3-ONE)

{End of Graphic(s):}

[ ] Denotes alternate/optional language

{ } Denotes language that does not appear on the market labeling