



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

November 30, 2017

Marcia L. Croce
Regulatory Affairs
Lanxess Corporation
111 RIDC West Park Drive
Pittsburgh, PA 15275

Subject: Label Amendment – Include Closed Loop Systems Under Existing Use Pattern
Product Name: Preventol DP 1021
EPA Registration Number: 39967-136
Application Date: 9/21/17
Decision Number: 534519

Dear Ms. Croce:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

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) list 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 Compliance.

Page 2 of 2
EPA Reg. No. 39967-136
Decision No. 534519

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Terria Northern by phone at 703-347-0265, or via email at northern.terria@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Zeno Bain', with a long horizontal stroke extending to the right.

Zeno Bain, Product Manager 33
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs

Enclosure: Approved label

Preventol® DP 1021

FOR THE CONTROL OF BACTERIA, AND FUNGI IN A WIDE RANGE OF INDUSTRIAL PROCESS WATERS, PULP AND PAPER MILL SYSTEMS, WATER FLOOD INJECTION WATERS, FRACKING FLUIDS, DRILLING AND WORKOVER FLUIDS, GAS PRODUCTION SYSTEMS, GAS STORAGE WELLS, HYDROTESTING, PIPELINE PIGGING AND SCRAPPING OPERATIONS AND MATERIAL PRESERVATIONS

ACTIVE INGREDIENTS: 2-bromo-2-nitropropane-1,3-diol	21%
Dodecylguanidine hydrochloride	10.5%
INERT INGREDIENTS	68.5%
TOTAL.....	100.0%

DANGER

KEEP OUT OF REACH OF CHILDREN
PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER CORROSIVE Causes irreversible eye damage and skin burns. May be fatal if inhaled. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Harmful if swallowed or absorbed through skin. Do not breathe spray mists. Do not get in eyes, on skin, or on clothing. Wear appropriate protective eyewear such as goggles, face shield or safety glasses, clothing and gloves. Wear a NIOSH approved respirator with an organic vapor cartridge or a NIOSH approved gas mask with a canister. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

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 the poison control center or doctor.
- Do not give anything to an unconscious person.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN:

- Probable mucosal damage may contraindicate the use of gastric lavage.
- Treat according to symptoms

Have the product container or label with you when calling a poison control center or doctor or when going in for treatment.

The LANXESS Pittsburgh Emergency Response Telephone Number is 800-410-3063

LANXESS

LANXESS Corporation

111 RIDC Park West Drive • Pittsburgh, PA 15275-1112

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. For specific application information refer to the Product Bulletin.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear: Protective eyewear (goggles, face shield or safety glasses) and chemical resistant gloves. Coveralls over long sleeved shirt and long pants, socks and chemical resistant footwear. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, shrimp and oysters. Do not discharge effluent containing this product into lakes, stream, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination systems (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 waste. Apply this pesticide only as specified on this label.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Product should be stored in an area that is not subject to extreme temperatures. Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed.

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 HANDLING: Do no refill or reuse container. Triple rinse as follows: Empty remaining contents into application equipment or mix tank. 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. Empty the rinsate into the application equipment or mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.

IN CASE OF EMERGENCY, CALL: CHEMTREC 800-424-9300

INTERNATIONAL 703-527-3887

EPA Reg. No.: 39967-136

EPA Est. No.:

Net Contents:

Lot No.:

® Preventol is a registered trademark of LANXESS Corporation

LABEL TEXT DATE 9/21/17

ACCEPTED

Nov 30, 2017

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under

EPA Reg. No. 39967-136

LANXESS

Energizing Chemistry

Product Information

PREVENTOL[®] DP 1021

EPA Registration Number 39967-136

PREVENTOL[®] DP 1021

FOR THE CONTROL OF BACTERIA, AND FUNGI IN A WIDE RANGE OF INDUSTRIAL PROCESS WATERS, PULP AND PAPER MILL SYSTEMS, WATER FLOOD INJECTION WATERS, FRACKING FLUIDS, DRILLING AND WORKOVER FLUIDS, GAS PRODUCTION SYSTEMS, GAS STORAGE WELLS, HYDROTESTING, PIPELINE PIGGING AND SCRAPPING OPERATIONS AND MATERIAL PRESERVATIONS

DIRECTIONS FOR USE

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

INDUSTRIAL PROCESSES AND WATER SYSTEMS

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS: For use only in Industrial Recirculating Water Cooling Towers that maintain effective mist eliminating components. Badly fouled systems must be cleaned before treatment is begun. **SLUG OR INTERMITTENT METHOD: Initial dose:** When system is noticeably fouled apply 13.4 oz to 53.7 oz./1000 gal. (50-350 ppm) Repeat until control is achieved. **Subsequent dose:** When control is evident, apply 13.4 oz. to 17.7 oz. /1000 gal (87.5 -115 ppm) every three days or as needed. **CONTINUOUS METHOD: Initial dose:** When system is noticeably fouled, apply 13.4 oz to 17.7 oz./1000 gal. (87.5 -115 ppm) per day. **Subsequent dose:** Maintain initial rate by continuously feeding 13.4 oz. to 17.7 oz. /1000 gal (87.5-115 ppm)per day.

AIR WASHING SYSTEMS: For use only in Industrial Air Washer Systems that maintain effective mist eliminating components. Badly fouled systems must be cleaned before treatment is begun. **SLUG OR INTERMITTENT METHOD: Initial dose:** When system is noticeably fouled apply 7.7 oz to 53.7 oz./1000 gal. (50-350 ppm). Repeat until control is achieved. **Subsequent dose:** When control is evident, apply 13.4 oz/1000 gal to 17.7 oz. (87.5 -115 ppm) every three days or as needed. **CONTINUOUS METHOD: Initial dose:** When system is noticeably fouled, apply 13.4 oz to 17.7 oz./1000 gal. (87.5 -115 ppm) per day. **Subsequent dose:** Maintain initial rate by continuously feeding 13.4 oz. to 17.7 oz. /1000 gal (87.5-115 ppm) per day.

CLOSED LOOP SYSTEMS

For use in closed loop cooling, PREVENTOL[®] DP 1021 will reduce the biofouling of pipe work and condenser tubes. Apply PREVENTOL[®] DP 1021 once weekly to once monthly to the tank where the flow will ensure quick incorporation, a metering pump delivery system is required for this use and application method.

Shock dose PREVENTOL[®] DP 1021 at 50 to 350 ppm (13.4 oz. to 53.7 oz. /1000 gal.). Subsequent dosing can be reduced to 87.5 -115 ppm.

PULP AND PAPER MILL SYSTEMS

PULP AND PAPER MILL SYSTEMS: PREVENTOL[®] DP 1021 should be added to a paper making system at a point of uniform mixing such as the beaters, broke chest pump, save-all tank, or white tank. **Initial Dose:** When the system is noticeably contaminated, add 0.007 -0.57 lbs of PREVENTOL[®] DP 1021 per ton of pulp or paper (dry basis) (1.06-88.6 active ppm) as a slug dose. Repeat until control is

PREVENTOL[®] DP 1021

39967-136

Page 2

achieved. Heavily fouled systems should be boiled out prior to initial treatment. **Subsequent Dose:** When microbial control is evident, add 0.007-0.57 lbs of PREVENTOL[®] DP 1021 per ton of pulp or paper (dry basis) (1.06-88.6 active ppm) as a slug dose as necessary to maintain control.

PULP AND PAPER MILL PROCESSING CHEMICALS, ADHESIVES, AND

COATINGS: Add PREVENTOL[®] DP 1021 directly to the material to be preserved prior to manufacturing into the finished paper product, (i.e., pulp, broke, polymers, defoamers, alum, emulsions, adhesives, papermill coatings, pigment slurries, and paper products). The dosage rate will depend upon the material to be preserved and the storage time. The usual addition should be 5.4 to 16.1 oz./1000 gal (35-105 ppm). Under extreme conditions of spoilage, the dosage rate should be increased to 6.8 to 43.0 oz/1000 gal (44-280 ppm). The dosage rates are based on a maximum storage time of 2 weeks. For storage time greater than 2 weeks the maximum concentration should be increased to 7.7 oz to 53.7 oz./1000 gal. (50-350 ppm). Do not use for adhesives or coatings that involve direct or indirect food, or human drinking water contact application.

Dosage Rate per 1000 gallons of material:

Adhesives:	5.4 to 53.8 oz. (35-350 ppm)
Alum:	5.4 to 53.8 oz. (35-350 ppm)
Broke:	5.4 to 53.8 oz. (35-350 ppm)
Defoamers:	5.4 to 53.8 oz. (35-350 ppm)
Emulsions:	5.4 to 53.8 oz. (35-350 ppm)
Papermill coatings:	5.4 to 53.8 oz. (35-350 ppm)
Pigment slurries:	5.4 to 53.8 oz. (35-350 ppm)
Polymers:	5.4 to 53.8 oz. (35-350 ppm)
Pulp:	5.4 to 53.8 oz. (35-350 ppm)
Other Paper Processing Additives	5.4 to 53.8 oz. (35-350 ppm)

MATERIAL PRESERVATION

ADHESIVE SYSTEMS (NON-FOOD CONTACT PAPER):

PREVENTOL[®] DP 1021 is used in the preservation of non-food contact paper related aqueous systems. The exact amount for the preservative of any given formulation will depend on the components, storage time, temperature, etc., and can be determined by the actual testing based on formula weight. Dosage Rate per 1000 gallons of material:

Automobile adhesives tapes:	1.72 to 3.45 lbs (175-350 ppm)
Glues:	1.72 to 3.45 lbs (175-350 ppm)
Nonfood packaging adhesives:	1.72 to 3.45 lbs (175-350 ppm)
Wallpaper:	1.72 to 3.45 lbs (175-350 ppm)
Wood glue:	1.72 to 3.45 lbs (175-350 ppm)

PAINTS, COATINGS, AND STAINS:

PREVENTOL[®] DP 1021 is used in the preservation of non-food contact paper related aqueous systems. The exact amount for the preservative of any given formulation will depend on the components, storage time, temperature, etc., and can be determined by the actual testing based on formula weight. Dosage Rate per 1000 gallons of material:

Paints and coatings (between manufacture and formation):	4.69 to 23.43 lbs (476-2380 ppm)
Coatings systems (paints and coatings as finished products):	4.69 to 23.43 lbs (476-2380 ppm)
Titanium dioxide and calcium carbonates (precursors to paint and coating products):	4.69 to 23.43 lbs (476 -2380 ppm)

PIGMENTS, DYES, AND FILLER SUSPENSION:

PREVENTOL® DP 1021 is used in the preservation of non-food contact paper related aqueous systems. The exact amount for the preservative of any given formulation will depend on the components, storage time, temperature, etc., and can be determined by the actual testing based on formula weight. Dosage Rate per 1000 gallons of material:

Pigments slurries (paint dyes for non-clothing such as industrial fibers):	4.69 to 23.43 lbs (476 -2380 ppm)
Calcium Carbonate:	4.69 to 23.43 lbs (476 -2380 ppm)
Clay:	4.69 to 23.43 lbs (476 -2380 ppm)
Titanium dioxide:	4.69 to 23.43 lbs (476 -2380 ppm)

POLYMER DISPERSION AND EMULSIONS:

PREVENTOL® DP 1021 is used in the preservation of non-food contact paper related aqueous systems. The exact amount for the preservative of any given formulation will depend on the components, storage time, temperature, etc., and can be determined by the actual testing based on formula weight. Dosage Rate per 1000 gallons of material:

Contact polymer systems:	4.69 to 23.43 lbs (476 -2380 ppm)
Latex emulsions systems:	4.69 to 23.43 lbs (476 -2380 ppm)

OIL AND GAS SYSTEMS

OIL FIELD WATER SYSTEMS: Badly fouled systems should be cleaned prior to treatment. Addition may be made at the free water knockouts before or after the injection pumps and injection well headers.

SLUG OR INTERMITTENT METHOD: Initial dose: When system is noticeably fouled apply 7.7 oz to 53.7 oz./1000 gal. (50-350 ppm). Repeat until control is achieved for 2 to 8 hours per day once per week or daily as needed. **Subsequent dose:** When control is evident, apply 53.7 oz./1000 gal. (350 ppm) every three days or as needed. **CONTINUOUS METHOD: Initial dose:** When system is noticeably fouled, apply 17.7 oz. /1000 gal (115 ppm) per day. **Subsequent dose:** Maintain initial rate by continuously feeding 13.4 oz. to 17.7 oz. /1000 gal (87.5-115 ppm)per day.

OIL RECOVERY DRILLING FLUIDS: Add directly to the packer fluid or drilling mud. The dosage rate will depend upon the severity of the contamination. **SLUG OR INTERMITTENT METHOD: Initial dose:** when system is noticeably fouled apply 17.7 oz. /1000 gal (115 ppm) per day intermittently for 2 to 8 hours per week or daily as needed. Repeat until control is achieved. **Subsequent dose:** When control is established, apply 13.4 oz. to 17.7 oz. /1000 gal (87.5-115 ppm) every three days or as needed to maintain control.

WATER FLOOD INJECTION WATER

Initial Treatment: When the system is noticeably contaminated, add 0.09 to 0.350 gal/1000 gallons flood water. (87.5-350 ppm) PREVENTOL® DP 1021 to the system Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 87.5 to 350 ppm PREVENTOL® DP 1021 (0.09 to 0.350 gallons PREVENTOL® DP 1021 per 1,000 gallons flood water) to the system weekly, or as needed to maintain

FRAC FLUIDS

Add PREVENTOL® DP 1021 to the frac water storage tanks or directly into the well head injection pipeline as the water is being pumped down-hole.

Dose Range: PREVENTOL® DP 1021 should be added at a rate of 87.5 to 350 ppm (0.09 to 0.350 gallons per 1,000 gallons) depending on the degree of bacterial fouling in the source water.

DRILLING, COMPLETION AND WORKOVER FLUIDS

PREVENTOL® DP 1021 should be added to a drilling fluid system at a point of uniform mixing such as the circulating mud tank.

Initial treatment: Add 87.5 to 350 ppm PREVENTOL® DP 1021 (0.0276 to 1.10 gallons PREVENTOL® DP 1021 per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination.

Maintenance dosage: Maintain a concentration of 87.5 to 350 ppm of PREVENTOL® DP 1021 by adding 0.0276 to 1.10 gallons of PREVENTOL® DP 1021 per 100 barrels of additional fluid, or as needed, depending on the severity of the contamination.

REMARKS

If you need assistance or information, please call your nearest LANXESS representative, or our Pittsburgh office at 800-LANXESS.

IN CASE OF EMERGENCY, CALL: CHEMTREC 1-800-424-9300

INTERNATIONAL (703)-527-3887

HAVE THE PRODUCT CONTAINER OF LABEL WITH YOU WHEN CALLING A POISON CONTROL CENTER OR DOCTOR OR GOING FOR TREATMENT.

LANXESS Corporation
111 RIDC Park West Drive
Pittsburgh, PA 15275
412-809-1000

The conditions of your use and application of our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis at least must include testing to determine suitability from a technical as well as health, safety and environmental standpoint. Such testing has not necessarily been done by LANXESS Corporation. All information is given without warranty or guarantee. It is expressly understood and agreed that the customer assumes and hereby expressly releases LANXESS from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance and information. Any statement or recommendation not contained herein is unauthorized and shall not bind LANXESS. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.

9/17