FOR THE CONTROL OF BACTERIA, AND FUNGI in industrial processes and water systems, air washing systems, pulp and paper mill systems, adhesives, tackifiers and sealants, paints, coating and stains, pigments, dyes and filler suspension, consumer, household, and institutional products, inks and fountain solutions, concrete admixtures, metalworking fluids, polymer emulsions (polymer lattices), and water based agricultural pesticides concentrates.

ACTIVE INGREDIENTS: 2-bromo-2-nitropropane-1,3-diol ........................................................................................................... 15%
2-methyl-3(2H)-isothiazolone .............................................................................................................................................. 5%
INERT INGREDIENTS ......................................................................................................................................................... 80%
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 or on skin or on clothing. Wear a NIOSH approved respirator with an organic vapor cartridge or a NIOSH approved gas mask with a canister. Wear protective eyewear such as goggles, face shield or safety glasses, clothing and gloves. 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.

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 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.

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.

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

* Preventol is a registered trademark of LANXESS Corporation

LANXESS Corporation
111 RIDC Park West Drive ● Pittsburgh, PA 15275-1112

LABEL TEXT DATE 10/4/18
PREVENTOL® PM 310

EPA Registration Number 39967-146
PREVENTOL® PM 310

FOR THE CONTROL OF BACTERIA, AND FUNGI in Industrial processes and water systems, air washing systems, pulp and paper mill systems, building materials, adhesives, tackifiers and sealants, polymer emulsions (polymer lattices), paints, coating and stains, pigments, dyes and filler suspension, consumer, household, and institutional products, inks and fountain solutions, concrete admixtures, metalworking fluids, and water based agricultural pesticides concentrates.

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 25.2 oz. to 100.7 oz. /1000 gal. of PREVENTOL® PM 310 (167-667ppm) Repeat until control is achieved. Subsequent dose: When control is evident, apply 25.2 oz. to 100.7 oz. /1000 gal. (167-667 ppm) of PREVENTOL® PM 310 every three days or as needed. CONTINUOUS METHOD: Initial dose: When system is noticeably fouled, apply 25.2 oz to 100.7 oz. /1000 gal. of PREVENTOL® PM 310 (167-667 ppm) per day. Subsequent dose: Maintain initial rate by continuously feeding 25.2 oz. to 100.7 oz. /1000 gal. of PREVENTOL® PM 310 (167-667 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 25.2 oz. to 100.7 oz. /1000 gal. of PREVENTOL® PM 310 (167-667 ppm). Repeat until control is achieved. Subsequent dose: When control is evident, apply 25.2 oz. to 100.7 oz. of PREVENTOL® PM 310 (87.5 -115 ppm) every three days or as needed. CONTINUOUS METHOD: Initial dose: When system is noticeably fouled, apply 25.2 oz. to 100.7 oz. /1000 gal. of PREVENTOL® PM 310 (167-667 ppm) per day. Subsequent dose: Maintain initial rate by continuously feeding 25.2 oz. to 100.7 oz. /1000 gal. of PREVENTOL® PM 310 (167-667 ppm) per day.

CLOSED LOOP SYSTEMS

For use in closed loop cooling, PREVENTOL® PM 310 will reduce the biofouling of pipe work and condenser tubes. Apply PREVENTOL® PM 310 once weekly to once monthly to the sump or tank where the flow will ensure quick incorporation, a metering pump delivery system is required for this use and application method. Shock dose PREVENTOL® PM 310 at 167 to 667 ppm (25.2oz. to 100.7 oz. /1000 gal.). Subsequent dosing can be reduced to 87.5 -115 ppm.

PULP AND PAPER MILL SYSTEMS

PULP AND PAPER MILL SYSTEMS: PREVENTOL® PM 310 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. Apply 0.013 -0.334 lbs. of PREVENTOL® PM 310 per ton of pulp or paper (dry basis)-(6.67-167 ppm) once weekly to once daily. Repeat until control is achieved. Heavily fouled systems should be boiled out prior to initial treatment.
PULP AND PAPER MILL Bulk Paper/Paper Additives: Add PREVENTOL® PM 310 directly to the material to be preserved prior to manufacturing into the finished paper product, (i.e., pulp, broke, polymers, defoamers, alum, emulsions, adhesives, paper mill 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 50.28 to 201.41 oz. /1000 gal. of PREVENTOL® PM 310 (333.33 - 1334 ppm).

MATERIAL PRESERVATION

ADHESIVES, TACKIFIERS AND SEALANTS
PREVENTOL® PM 310 is used in the preservation of water based adhesives and water dispersible adhesive, tackifiers and sealants. 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: 350-5000 ppm of the finished product.

POLYMER EMULSIONS (POLYMER LATTICES)
PREVENTOL® PM 310 is recommended for the control of microorganisms in the manufacture and storage of synthetic and natural polymer emulsions and latexes including but not limited to acrylics; styrene/butadiene; carboxylated styrene/butadiene; ethylene/vinyl acetate including PVA; and biopolymers intended for industrial use, such as xanthan gum, gum arabic, guar gum, protein-derived polymers, starches, and casein-derived polymers. To ensure uniform mixing, add PREVENTOL® PM 310 to polymer emulsion or latex solutions slowly with agitation. Dosage Rate: 350 to 5000 ppm of the finished product.

PAINTS, COATINGS, AND STAINS:
PREVENTOL® PM 310 is used in the preservation of paints, coatings and stains. 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: 350 -3000 ppm of the finished product.

PIGMENTS, DYES, AND FILLER SUSPENSIONS:
PREVENTOL® PM 310 is used in the preservation of pigments, dyes, and filler suspension. Pigments, dyes and filler suspensions include dispersed pigments and mineral slurries such as kaolin clay, montmorillonite clay, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate, carbon black, iron oxide, and diatomaceous earth. 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: 200-3,333 ppm of the finished product.

CONSUMER, HOUSEHOLD AND INSTITUTIONAL PRODUCTS:
PREVENTOL® PM 310 is used in the preservation of consumer, household and institutional products such as surface cleaners and polishes. Surfactants and raw materials for the manufacture of industrial and consumer products. 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 : 667-3,333 ppm of the finished product.

BUILDING MATERIAL PRESERVATION:
PREVENTOL® PM 310 is used in the preservation of mastics, grout, caulks, joint compound, and spackling. 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 :500-3000 ppm of the finished product.
INKS AND FOUNTAIN SOLUTIONS:
PREVENTOL® PM 310 is used in the preservation of inks and fountain solutions. 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.

During the use of fountain solutions, shock dose of PREVENTOL® PM 310 at 334-667 ppm depending on the contamination. Apply once weekly in the fountain reservoir as a normal routine or more frequent, if required.

For In-Can preservation dose of PREVENTOL® PM 310 at 667-3333 ppm on the final formulation volume.

CONCRETE ADMIXTURES:
PREVENTOL® PM 310 is used in the preservation of concrete admixtures. 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: 500-5000 ppm of the finished product.

METALWORKING FLUIDS - TANKSIDE:
PREVENTOL® PM 310 is used in the preservation of metalworking fluids. 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.

Add PREVENTOL® PM 310 at 500-5000 ppm to the sump (with agitation) and allow to circulate for about one hour before shutdown.

WATER BASED AGRICULTURAL PESTICIDE CONCENTRATES:
PREVENTOL® PM 310 is used in the preservation of aqueous agricultural pesticide concentrates. 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: 667-3,334 ppm of the finished product.

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.