



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

March 5, 2020

Marcia Croce  
Regulatory Affairs Specialist  
Lanxess Corporation  
111 RIDC Park West Drive  
Pittsburgh, PA 15275-1112

Subject: Label Amendment – Adding a “Not for Use in CA” Qualifiers  
Product Name: Preventol IT 14 Preservative  
EPA Registration Number: 39967-91  
Application Date: 01/22/2020  
Decision Number: 560284

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.

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

Page 2 of 2  
EPA Reg. No. 39967-91  
Decision No. 560284

with FIFRA section 6. If you have any questions, you may contact Aline Heffernan at 703-347-8602 or via email at [Heffernan.Aline@epa.gov](mailto:Heffernan.Aline@epa.gov).

Sincerely,

A handwritten signature in black ink that reads "Steven Snyderman". The signature is written in a cursive style with a horizontal line underneath the name.

Steven Snyderman, Acting Product Manager 33  
Regulatory Management Branch 1  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

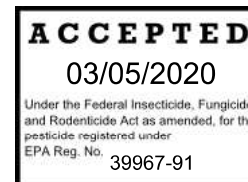
Enclosure: Stamped Label

# PREVENTOL® IT 14 PRESERVATIVE

FOR THE PRESERVATION OF PAINTS AND COATINGS, PIGMENT AND MINERAL SLURRIES\*, ADHESIVES AND TACKIFIERS, POLYMER EMULSIONS, METALWORKING FLUIDS\*, BUILDING MATERIALS\*, FOUNTAIN SOLUTIONS\*, INKS\*, AND PHOTOPLATE PROCESSING\*, PAPER MILL PROCESS WATER\*, RECIRCULATING COOLING WATER SYSTEMS, BREWERY PASTEURIZER AND CAN WARMER SYSTEMS\*, HYDRAULIC FLUIDS\*, OIL FIELDS INJECTION WATERS\*, AIR WASHER SYSTEMS\*, RECIRCULATING ELECTRODEPOSITION SYSTEMS\*, METAL CLEANING FLUIDS\*, COMMERCIAL PHOTOPROCESSING SYSTEMS\*, ELECTRODEPOSITION PAINT COMPONENTS\*, LIQUID HOUSEHOLD CONSUMER, INDUSTRIAL, JANITORIAL PRODUCTS\*, SEMI-SOLID/SOLID HOUSEHOLD CONSUMER, INDUSTRIAL, JANITORIAL PRODUCTS\*, PRESERVATIVE FOR AQUEOUS COMPONENTS\*, ULTRA FILTRATION REVERSE OSMOSIS SYSTEMS\*, INDUSTRIAL WASTEWATER TREATMENT SYSTEMS AND SEWAGE SYSTEMS\*, INDUSTRIAL PROCESS WATER SYSTEMS\*, FUEL PRESERVATION\*, WOOD AND WOOD PRODUCTS\*

\*Not For Use in the State of California

ACTIVE INGREDIENT: 5-chloro-2-methyl-4-isothiazolin-3-one	10.75%
2-Methyl-4-isothiazolin-3-one	3.60%
INERT INGREDIENTS	85.65%
TOTAL	100.0%



## KEEP OUT OF REACH OF CHILDREN DANGER

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER. CORROSIVE.** Causes irreversible eye damage and skin burns. May be fatal if absorbed through the skin or swallowed. Harmful if inhaled. Do not get in eyes, on skin, or on clothing. Avoid breathing vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Mixers, loaders and other exposed to this product must wear: Chemical resistant apron over long sleeved shirt and long pants, chemical resistant gloves such as nitrile or butyl rubber, shoes plus socks, goggles and face shield. Remove and wash contaminated clothing before reuse. Discard clothing or other absorbent material that have been drenched or heavily contaminated with this product. Do not reuse them. 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. 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.

[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

**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.

**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  
**IN CASE OF EMERGENCY, CALL: CHEMTREC 800-424-9300**  
INTERNATIONAL 703-527-3887

# 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.

Detailed directions for use can be found in the PREVENTOL® IT 14 Preservative Information Sheet. Obtain and read this information before undertaking the use of PREVENTOL® IT 14 Preservative in order to avoid process mistakes.

### PHYSICAL AND CHEMICAL HAZARDS

This product is corrosive to mild steel.

### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Do not store or transport in unlined metal containers. 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. Keep container closed when not in use. Do not apply this product in a way that will contact workers or other persons. Handle and open container in a manner as to prevent spillage. If the container is leaking, invert to prevent leakage. If the container is leaking material for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed below.

**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:** Nonrefillable container. **Do not reuse or refill this 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.

**Metal Containers:** **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.

**Plastic Containers:** **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.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic plants, fish and aquatic invertebrates. 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 Systems (NPDES) permit and the permitting authority has been notified in writing prior to the 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.

® PREVENTOL is a registered trademark of LANXESS Corporation

Net Contents:

EPA Reg. No. 39967-91

Lot No.:

EPA EST. No.:

LABEL TEXT DATE: 2/28/2020

# LANXESS

Energizing Chemistry  
Product Information

## PREVENTOL<sup>®</sup> IT 14 PRESERVATIVE

EPA Registration Number 39967-91  
CAS Number: 26172-55-4 and 2682-20-4

# PREVENTOL® IT 14 Preservative

FOR THE PRESERVATION OF PAINTS AND COATINGS, PIGMENT AND MINERAL SLURRIES\*, ADHESIVES AND TACKIFIERS, POLYMER EMULSIONS, METALWORKING FLUIDS\*, BUILDING MATERIALS\*, FOUNTAIN SOLUTIONS\*, INKS\*, AND PHOTOPLATE PROCESSING\*, PAPER MILL PROCESS WATER\*, RECIRCULATING COOLING WATER SYSTEMS, BREWERY PASTEURIZER AND CAN WARMER SYSTEMS\*, HYDRAULIC FLUIDS\*, OIL FIELDS INJECTION WATERS\*, AIR WASHER SYSTEMS\*, RECIRCULATING ELECTRODEPOSITION SYSTEMS\*, METAL CLEANING FLUIDS\*, COMMERCIAL PHOTOPROCESSING SYSTEMS\*, ELECTRODEPOSITION PAINT COMPONENTS\*, LIQUID HOUSEHOLD CONSUMER, INDUSTRIAL, JANITORIAL PRODUCTS\*, SEMI-SOLID/SOLID HOUSEHOLD CONSUMER, INDUSTRIAL, JANITORIAL PRODUCTS\*, PRESERVATIVE FOR AQUEOUS COMPONENTS\*, ULTRA FILTRATION REVERSE OSMOSIS SYSTEMS\*, INDUSTRIAL WASTEWATER TREATMENT SYSTEMS AND SEWAGE SYSTEMS\*, INDUSTRIAL PROCESS WATER SYSTEMS\*, FUEL PRESERVATION\*, WOOD AND WOOD PRODUCTS\*

## DIRECTIONS FOR USE

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

The following guidance is given as an approximation for each use pattern, but field-testing is recommended to achieve optimum effectiveness. Application rates must be within ranges listed and must not be exceeded.

### PAINTS AND COATINGS

PREVENTOL® IT 14 Preservative is an in-container preservative for the control of microorganisms in water-based coatings such as paints, paper and wood coatings used for architectural, product finishes and special-purpose coatings. Add 0.06 – 0.22 pound of PREVENTOL® IT 14 Preservative to each 1000 pounds of fluid to provide 60 to 220 ppm product (8.4 – 30.8 ppm active isothiazolones).

### PIGMENT AND MINERAL SLURRIES (Not for Use in the State of California)

PREVENTOL® IT 14 Preservative is an in-container preservative for the control of microorganisms in the manufacture and storage of dispersed pigments and mineral slurries such as kaolin clay, montmorillite clay, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate, carbon black, iron oxide, and diatomaceous earth used in paint and paper production. Add 0.044 – 0.225 pound of PREVENTOL® IT 14 Preservative to each 1000 pounds of fluid to provide 44 to 225 ppm product (6.3 -32 ppm active isothiazolones).

### ADHESIVES AND TACKIFIERS

PREVENTOL® IT 14 Preservative is an in-container preservative for the control of microorganisms in water-soluble and water-dispersed adhesives such as animal glues, plant

glues, starch-based glues, natural rubber latexes, polyvinyl acetate, styrene butadiene, and acrylic latexes. PREVENTOL® IT 14 Preservative is a preservative for tackifiers derived from rosin and hydrocarbon resins. Add 0.06 – 0.225 pound of PREVENTOL® IT 14 Preservative to each 1000 pound of fluid to provide 60 to 225 ppm product (8.4 – 31.5 ppm active isothiazolones).

### **POLYMER EMULSIONS**

PREVENTOL® IT 14 Preservative is used for the control of microorganisms in the manufacture and storage of synthetic and natural polymer emulsions and latexes including: 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. Add 0.06 – 0.45 pound PREVENTOL® IT 14 Preservative to each 1000 pounds of fluid to provide 60 to 450 ppm product (8.4 - 63 ppm active isothiazolones). To ensure uniform mixing, add PREVENTOL® IT 14 Preservative to polymer emulsion or latex solutions slowly with agitation.

### **METALWORKING FLUIDS (Not for Use in the State of California)**

PREVENTOL® IT 14 Preservative is used for the control of microorganisms in soluble and emulsifiable type aqueous metal working fluid (MWF) solutions and emulsions. Add 0.23 – 1.3 pounds of PREVENTOL® IT 14 Preservative per 1000 gallons of MWF every four weeks for maintenance of a non-fouled system. For a noticeably fouled system, use an initial dose of 0.6 to 1.3 pounds of PREVENTOL® IT 14 Preservative per 1000 gallons of MWF followed by subsequent maintenance dosages as listed above. PREVENTOL® IT 14 Preservative should be dispensed into the use dilution of the metal working fluid using a metering pump or by manual pouring and uniformly dispersed throughout the system.

### **BUILDING MATERIALS (Not for Use in the State of California)**

PREVENTOL® IT 14 Preservative is an in-container preservative for the control of microorganisms in building materials such as grouts, mastics, caulks, joint cements, concrete admixtures and spackling. Add 0.044 – 0.225 pound of PREVENTOL® IT 14 Preservative to each 1000 pounds of building material to provide 44 to 225 ppm product (6.3 - 32 ppm active isothiazolones).

### **FOUNTAIN SOLUTIONS, INKS, AND PHOTOPLATE PROCESSING (Not for Use in the State of California)**

PREVENTOL® IT 14 Preservative controls microorganisms in fountain solutions, inks, and photoplate processing such as stabilizer solutions. PREVENTOL® IT 14 Preservative is used for water-based printing inks such as flexographic, gravure, screen and ink jet types. PREVENTOL® IT 14 Preservative is used for the control of microorganisms in printing ink components such as resins, plasticizers, water soluble dyes, pigments, gelling agents, waves, surfactants, and thickeners.

PREVENTOL® IT 14 Preservative is added to achieve the recommended dosage range of 1000 – 10000 ppm for ink, ink components, fountains solutions and photoplate processing chemicals. The optimum level range for acidic fountain solutions is 2000 to 5000 ppm of PREVENTOL® IT

14 Preservative; the optimum use level for basic fountain solutions is 5000 to 8000 ppm of PREVENTOL® IT 14 Preservative.

**PAPER MILL PROCESS WATER** (Not for Use in the State of California)

Add as a slug dose 0.048 to 0.17 pounds of PREVENTOL® IT 14 Preservative per ton (dry basis) of pulp or paper produced for the control of microbial slime in the production paper. Repeat daily as needed. Heavily fouled systems should be boiled out prior to initial dosing. PREVENTOL® IT 14 Preservative should be added at a point such as the beater, hydropulper, fan pump, or broke storage pump to ensure uniform mixing.

**RECIRCULATING COOLING WATER SYSTEMS**

Add 0.032 - 0.196 pounds PREVENTOL® IT 14 Preservative per 1000 gallons of cooling water in the system weekly to maintain microbial control. Add PREVENTOL® IT 14 Preservative to a point in the cooling water system to ensure uniform mixing. For noticeably fouled systems dose as initial treatment with 0.13 - 0.79 lbs. of PREVENTOL® IT 14 Preservative per 1000 gallons cooling water. Repeat as necessary to achieve control.

**INDUSTRIAL RECIRCULATING PROCESS WATER SYSTEMS** (Not for Use in the State of California)

For the control of microbial biofilms, bacteria, algae and fungi, add PREVENTOL® IT 14 Preservative to: **Industrial process water systems, industrial recirculating closed loop water cooling systems.** Add PREVENTOL® IT 14 Preservative weekly in the reservoir, recirculating line or some other point in the system to ensure uniform mixing.

INITIAL DOSE: When the system is noticeable fouled, apply 14.8 – 88 ppm PREVENTOL® IT 14 Preservative (0.12 – 0.74 pounds or 1.9 – 11.3 fluid ounces of PREVENTOL® IT 14 Preservative per 1000 gallons of water in the system). Repeat until control is achieved. Badly fouled systems should be cleaned before treatment is begun.

SUBSEQUENT DOSE: When microbial control is evident, add PREVENTOL® IT 14 Preservative (0.03 – 0.186 pounds or 0.45 – 0.28 fluid ounces per 1000 gallons of water in the system) weekly or as needed to maintain control.

**INDUSTRIAL WASTEWATER TREATMENT SYSTEMS AND SEWAGE SYSTEMS** (Not for Use in the State of California)

PREVENTOL® IT 14 Preservative is recommended for the control of microbial biofilms, bacteria, fungi and algae in industrial wastewater treatment and sewage systems. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority.

INITIAL DOSE: When the system is noticeable fouled, apply 14.8 – 88 ppm PREVENTOL® IT 14 Preservative (0.12 – 0.74 pounds or 1.9 – 11.3 fluid ounces of PREVENTOL® IT 14 Preservative per 1000 gallons of water in the system). Repeat until control is achieved. Badly fouled systems should be cleaned before treatment is begun.

SUBSEQUENT DOSE: When microbial control is evident, apply 3.5 – 22 ppm PREVENTOL® IT 14 Preservative (0.03 – 0.186 pounds or 0.45 – 0.28 fluid ounces per 1000 gallons of water in the system) or as needed to maintain control.

**LIQUID HOUSEHOLD CONSUMER, INDUSTRIAL, JANITORIAL PRODUCTS** (Not for Use in the State of California)

PREVENTOL® IT 14 Preservative is added at a level of 0.04 to 0.15 pounds (18 – 68 grams) to each 1000 pounds of product to be protected to provide 6 to 22 ppm of active isothiazolinones. For the control of bacteria and fungi in liquid soaps, liquid cleaners, liquid detergents, liquid laundry products, liquid dishwashing detergents, waxes, polishes, liquid fabric treatments / refresher products, liquid air fresheners / deodorizers, car care products, and other similar cleaners.

**SEMI-SOLID/SOLID HOUSEHOLD CONSUMER, INDUSTRIAL, JANITORIAL PRODUCTS** (Not for Use in the State of California)

PREVENTOL® IT 14 Preservative is added at a level of 0.04 to 0.15 pounds to each 1000 pounds of product to be protected to provide 6 – 22 ppm of active isothiazolinones. For the control of bacteria and fungi in semi-solid/solid detergents, semi-solid laundry products, semi-solid/solid soaps, semi-solid/solid cleaners, semi-solid/solid fabric treatment / refresher products, semi-solid/solid air fresheners / deodorizers, car care products, and other similar cleaners.

**PRESERVATIVE FOR AQUEOUS COMPOSITION** (Not for Use in the State of California)

PREVENTOL® IT 14 Preservative is recommended as an in-container preservative for the control of bacteria and fungi in aqueous products such as fiber glass sizing solutions, aqueous emulsions and dispersions including stabilized oil/water emulsions, surface preparation compound, foam control products, nutrient solutions and pesticide formulations. Add 0.05 to 0.35 pounds ( 22g to 159g) of PREVENTOL® IT 14 Preservative to each 1000 pounds of aqueous product to provide 7 – 50 ppm active isothiazolones)

**TREATMENT OF ELECTRODEPOSITION PAINT COMPONENTS** (Not for Use in the State of California)

INITIAL DOSE OF PAINT COMPONENTS:

PREVENTOL® IT 14 Preservative should be added to the resin, pigments, or other components of the electrodeposition paint at a level to ensure that the final use-dilution fluid will contain 35 to 245 ppm product (5 – 35 ppm active isothiazolones)

**SUPPLEMENTAL TANKSIDE DOSING OF ELECTRODEPOSITION SYSTEM**

If additional microbial control is necessary, PREVENTOL® IT 14 Preservative may be added to the electrodeposition system tank side to supplement microbicide incorporated through paint components.

INITIAL DOSE: If the system becomes noticeably fouled, add 70 to 245 ppm PREVENTOL® IT 14 Preservative (0.70 – 2.44 gallons per 10,000 gallon of fluid in the system). This will provide 10 – 35 ppm active ingredients. Repeat until control is achieved.

SUBSEQUENT DOSE: When microbial control is evident, add 35 to 100 ppm PREVENTOL® IT 14 Preservative (0.33 – 1.0 gallon per 10,000 gallon of fluid in the system) weekly or as needed.



NOTE: Regardless of the manner of incorporation, the total active ingredient level in the system should at no time exceed 35 ppm (equivalent to 245 ppm PREVENTOL® IT 14 Preservative or 2.45 gallons per 10,000 gallon system fluid).

**ULTRA FILTRATION UNITS AND REVERSE OSMOSIS SYSTEM** (Not for Use in the State of California)

PREVENTOL® IT 14 Preservative is recommended for the control of microbial biofilms, bacteria and fungi in ultra filtration units such as reverse osmosis systems. Add 1.05 – 35 ppm PREVENTOL® IT 14 Preservative (0.15 – 5 ppm active ingredient) into industrial ultra filtration or reverse osmosis systems by either continuous or periodic injection. Compatibility of PREVENTOL® IT 14 Preservative with reverse osmosis membranes should be confirmed with membrane manufacturers. For the control of bacteria and fungi in carbon beds, add 1.05 – 35 ppm of PREVENTOL® IT 14 Preservative (0.15 – 5 ppm active ingredient) by either continuous or batch feed. For periodic membrane cleaning, add 0.04 – 0.105 pounds of PREVENTOL® IT 14 Preservative to every 120 gallon of cleaning solution (6 – 15 ppm active ingredient). Badly fouled systems should be cleaned before treatment is begun.

**FUEL PRESERVATION** (Not for Use in the State of California)

PREVENTOL® IT 14 Preservative is recommended for the control of bacteria and fungi in liquid hydrocarbon fuels and oils such as: crude oils, aviation fuels, kerosene, heating oil, diesel fuels, residual fuel oils, coal slurries, liquefied petroleum gases and petrochemical feedstock.

PREVENTOL® IT 14 Preservative is recommended for REFINERY AND TERMINAL USE ONLY. PREVENTOL® IT 14 Preservative should be directly dispensed into a fuel tank, storage tank or a flowing stream of fuel in a manner to ensure uniform distribution of the preservative in the fuel system. Slug does or continuous feed methods are recommended.

CURATIVE DOSE: When the system is noticeable fouled, add 11 -21 gallons of PREVENTOL® IT 14 Preservative per 1 million gallons of fluid in the system. This will provide 11 to 21 ppm PREVENTOL® IT 14 Preservative. Repeat until control is achieved. A shock dose of up to 42 gallons of PREVENTOL® IT 14 Preservative per 1 million gallons of fluid is recommended in the case of extreme contamination. Grossly contaminated systems should be physically cleaned to remove debris.

MAINTENANCE DOSE: When the system is not noticeably fouled, add 5 – 16 gallons of PREVENTOL® IT 14 Preservative per 1 million gallons of fluid to maintain the system. This will provide 5 – 16 ppm of PREVENTOL® IT 14 Preservative. Repeat every 4 – 6 weeks or when microbial contamination is detected.

FOR USE IN AVIATION FUEL, THE FEDERAL AVIATION ADMINISTRATION MUST BE CONSULTED AS TO THE ACCEPTABILITY OF THE ADDITIVE FOR USE IN SPECIFIC ENGINES AND/OR AIRCRAFT.

**BREWERY PASTEURIZER AND CAN WARMER SYSTEMS** (Not for Use in the State of California)

Add 0.032 - 0.196 lb PREVENTOL® IT 14 Preservative per 1000 gallons of water in the system weekly or as needed to maintain control of microorganisms. For noticeably fouled systems dose as initial treatment with 0.13 - 0.79 lb PREVENTOL® IT 14 Preservative per 1000 gallons of water. Repeat as necessary to achieve control. The total active isothiazolone in the system should never exceed 248 ppm PREVENTOL® IT 14 Preservative.

PREVENTOL® IT 14 Preservative

39967-91

Page 6

#### HYDRAULIC FLUIDS (Not for Use in the State of California)

PREVENTOL® IT 14 Preservative is used as a preservative for use in the manufacture and use of water-based hydraulic fluids and invert emulsion hydraulic fluids typically prepared by emulsifying 40% by volume water in 60% by volume mineral oil using an oil soluble emulsifying agent.

For the maintenance of a non-fouled system, use PREVENTOL® IT 14 Preservative at 0.76 – 1.2 pounds per 1000 gallons hydraulic fluid every eight weeks. For a noticeably fouled system use an initial dose of 1.1 – 2.0 pounds PREVENTOL® IT 14 Preservative per 1000 gallons fluid to be followed by subsequent maintenance dosing. PREVENTOL® IT 14 Preservative should be dosed into the circulating use-dilution of the hydraulic fluid using a metering pump or by manual pouring, and uniformly dispersed throughout the system.

#### OIL FIELDS INJECTION WATERS (Not for Use in the State of California)

Add 2.4 to 6.2 pounds PREVENTOL® IT 14 Preservative per 1000 barrels of water weekly or as needed to maintain control of slime-forming and sulfate reducing bacteria in oil and gas field water systems including enhanced recovery injection fluids, fracturing, completion and drilling fluids. An initial dose of 6.1 to 12.5 lb PREVENTOL® IT 14 Preservative per 1000 barrels of water may be used until microbial control is achieved. Dose again after three days or as needed until microbial control is achieved. Add at a point in the system to ensure adequate mixing. PREVENTOL® IT 14 Preservative may be used for terrestrial and off-shore oil drilling muds and packer fluids.

#### AIR WASHER SYSTEMS (Not for Use in the State of California)

For use only in industrial air washing systems with effective mist eliminating elements. Badly fouled air washer systems must be cleaned before initial dosing. Add PREVENTOL® IT 14 Preservative to the air washer sump or chill water sump to ensure uniform mixing for the control of microorganisms.

##### Intermittent or slug dosing:

**INITIAL DOSING:** when system is noticeably fouled, add 0.26 – 0.71 pound PREVENTOL® IT 14 Preservative to 1000 gallons of air washer water.

**MAINTENANCE DOSING:** when microbial control is evident, dose 0.12 – 0.20 pound PREVENTOL® IT 14 Preservative to 1000 gallons of air washer water. Repeat treatment as needed depending on the severity of contamination.

##### Continuous dosing method:

**INITIAL DOSEING:** when system is noticeably fouled, add 0.26 – 0.71 pound PREVENTOL® IT 14 Preservative to 1000 gallons of air washer water.

Maintenance dosing: Add a continuous dose of 0.12 – 0.20 pound PREVENTOL® IT 14 Preservative to 1000 gallons air washer make-up water. Repeat treatment as needed depending on the severity of contamination.

## **RECIRCULATING ELECTRODEPOSITION SYSTEMS (Not for Use in the State of California)**

PREVENTOL® IT 14 Preservative is used as a tankside additive for the control of microorganisms in recirculating systems and associated rinse systems. Alternatively, PREVENTOL® IT 14 Preservative may be added through the components of the electrodeposition paint prior to their addition to the electrodeposition system.

**TANKSIDE ADDITION TO ELECTRODEPOSITION SYSTEMS:** PREVENTOL® IT 14 Preservative should be dispensed into the recirculating rinse system, ultrafilter permeate, or final distilled rinse system at a point to insure uniform mixing.

**INITIAL DOSE:** When the system is noticeably fouled, add 71-245 ppm PREVENTOL® IT 14 Preservative. This provides 10 to 35 ppm of active isothiazolone. Repeat until microbial control is achieved.

**SUBSEQUENT DOSE:** When microbial control is evident, add 35-106 ppm PREVENTOL® IT 14 Preservative weekly or as needed to maintain the system. This provides 5-15 ppm of active isothiazolone.

## **METAL CLEANING FLUIDS (Not for Use in the State of California)**

PREVENTOL® IT 14 Preservative is used as a preservative in the manufacture and use of alkaline, acid and emulsion based metal cleaning fluids typically used in electroplating, phosphatizing, galvanizing and general metal cleaning operations. For addition to a metal cleaning concentration, add PREVENTOL® IT 14 Preservative at a level to ensure that the final use-dilution fluid will contain 44 – 244 ppm product (6.3 – 35 ppm isothiazolone). For direct addition to a fouled system, add 0.48 – 2.3 pounds PREVENTOL® IT 14 Preservative to each 1000 gallons of use-dilution metal cleaning fluid every three to four weeks to provide 44 – 244 ppm product (6.3 – 35 ppm isothiazolone). PREVENTOL® IT 14 Preservative should be dispensed into the use-dilution of the metal cleaning fluid using a metering pump or by manual pouring and uniformly disperse throughout the system.

## **COMMERCIAL PHOTOPROCESSING SYSTEMS (Not for Use in the State of California)**

PREVENTOL® IT 14 Preservative is recommended to prevent slime formation or accumulation in filters and ion exchange resin tanks of commercial photoprocessing systems.

For the maintenance of a non-fouled system, use PREVENTOL® IT 14 Preservative at 0.23 – 0.46 pound per 1000 gallon fluid every eight weeks. For a noticeably fouled system, use an initial dose 0.46-1.15 pounds per 1000 gallon fluid to be followed by subsequent maintenance dosing. Increased frequency of treatment may be required depending upon rate of dilution of the preservative with makeup fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc. PREVENTOL® IT 14 Preservative should be dispensed into the final rinse or used water collection tank for adequate distribution.

**NOTE:** PREVENTOL® IT 14 Preservative may be added to those products formulated as concentrates which are in turn diluted for use at a level to ensure that the final use-dilution product will contain between 0.04% to 0.15% PREVENTOL® IT 14 Preservative.

**PRESERVATIVE FOR WOOD AND WOOD PRODUCTS** (Not for Use in the State of California)

PREVENTOL® IT 14 Preservative is recommended for the protection of wood and wood products such as landscape timbers, fences, posts, pilings, cross ties, decks and similar exterior structures, from mold and mildew. Treat pressure-treatment solution with 0.023 to 0.071 gallons (3.48 to 11.26 fluid ounces) of PREVENTOL® IT 14 Preservative per 1000 gallons of solution (4.0 to 12.6 ppm active isothiazolones) in the pressure treating process for mold and mildew control. Under extreme mildew conditions, PREVENTOL® IT 14 Preservative may be used up to a maximum concentration of 334 ppm PREVENTOL® IT 14 Preservative (up to 42.8 fluid ounces per 1000 gallons of treatment solution). This application will afford protection up to 12 weeks and during repeated use of solution.

PREVENTOL® IT 14 Preservative may be used at higher concentrations so long as the end-use product/article contains a maximum concentration of 334 ppm PREVENTOL® IT 14 Preservative.

**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, when the product is not used as directed. 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.