



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

May 5, 2016

Sarah Plittman  
Regulatory Affairs Representative  
Belcan Tech Services  
LANXESS Corporation  
Material Protection Products  
111 RIDC Park West Drive  
Pittsburgh, PA 15275-1112

Subject: Label Amendment – Change Name, revise dose rates, impose CA restriction and add equipment cleaning use  
Product Name: Antimicrobial N-20  
EPA Registration Number: 39967-103  
Application Date: June 30, 2015  
Decision Number: 506571

Dear Ms. Plittman:

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. 39967-103  
Decision No. 506571

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 Tom Luminello by phone at (703) 308-8075, or via email at [luminello.tom@epa.gov](mailto:luminello.tom@epa.gov).

Sincerely,

A handwritten signature in red ink that reads "Jacqueline Hardy". The signature is written in a cursive style and is enclosed within a faint, light-colored rectangular border.

Jacqueline Hardy, Product Manager (34)  
Regulatory Management Branch II  
Antimicrobials Division (7510P)

Enclosure      Stamped Label

# Antimicrobial N- 20

Controls bacteria, fungi, and yeasts in Industrial Process and Water Systems including: paper mills, and industrial cooling water systems; controls slime forming in air washer systems. Controls the growth of microorganisms in preservation applications including; adhesives, glues and tackifier preservation; construction products and household products; metal working fluids containing water; enhanced oil recovery; paints coatings and stains; pigments, dyes and filler suspensions; polymer dispersions and emulsions; Pulp & Paper Mills; Equipment Cleaning.

KEEP OUT OF REACH OF CHILDREN

## DANGER

PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

Corrosive. Causes irreversible eye damage or skin burns. Do not get in eyes, on skin, or on clothing. May cause loss of vision. Fatal if absorbed through skin. May be fatal if swallowed. Harmful if inhaled. Avoid breathing vapor. Wear goggles of face shield (safety glasses). Wear protective clothing (long-sleeve shirt and long pants, socks plus shoes and chemical resistant gloves such as waterproof gloves). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove contaminated clothing and wash before reuse.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. 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 waste. Apply this pesticide only as specified on this label.

**IN CASE OF A TRANSPORTATION EMERGENCY CALL CHEMTREC 1-800-424-9300. NOTICE: DO NOT SHIP OR STORE WITH FOOD, FEEDS, DRUGS OR CLOTHING.**

EPA Reg. No.: 39967-103

EPA Est. No.:

Net Contents:

Lot No.: **LANXESS**

### Active Ingredient:

2,2-Dibromo-3-nitrilopropionamide .....20.0%

**Inert Ingredients:** .....80.0%

**TOTAL** ..... 100.0%

KEEP OUT OF REACH OF CHILDREN

## DANGER

### 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 by mouth to an unconscious person.

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

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

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

LANXESS Corporation

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

Label date 8/18/2015

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply in a way that will contact workers or other persons.

The amount necessary for desired protection varies, depending on exposure conditions. For further application information refer to the Product Bulletin.

### STORAGE AND DISPOSAL

**PESTICIDE STORAGE:** Do not contaminate water, food or feed by storage or disposal.

**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 the label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA regional Office for guidance. **STORAGE:** To maintain product quality, store at temperatures below 60° C. Keep container tightly closed when not in use.

**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 back and forth, ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip back and forth several times. Turn container over onto its other end and tip it back and forth several times. Empty rinsate into application equipment or mix tank or store rinsate into the application equipment or mix tank or store 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.

**ACCEPTED**

5/5/2016

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

EPA Reg. No. 39967-103

[Text in brackets [XXX] may or may not appear on final label]

# LANXESS

Energizing Chemistry  
Product Information

## Antimicrobial N- 20

EPA Registration Number 39967-103  
CAS Number: 55965-84-9

[Text in brackets [XXX] may or may not appear on final label]

## Antimicrobial N- 20

Controls bacteria, fungi, and yeasts in Industrial Process and Water Systems including: paper mills, and industrial cooling water systems; controls slime forming in air washer systems. Controls the growth of microorganisms in preservation applications including; adhesives, glues and tackifier preservation; construction products and household products; metal working fluids containing water; enhanced oil recovery; paints coatings and stains; pigments, dyes and filler suspensions; polymer dispersions and emulsions; Pulp & Paper Mills; Equipment Cleaning.

### DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.  
NOTE: ADD ANTIMICROBIAL N-20 SEPARATELY TO THE SYSTEM. DO NOT MIX IT WITH OTHER ADDITIVES, IN ORDER TO AVOID DECOMPOSITION OF ANTIMICROBIAL N-20 DUE TO THE HIGH pH OF MANY ADDITIVE FORMULANTS.

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### INDUSTRIAL PROCESS AND WATER SYSTEMS

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#### INDUSTRIAL RECIRCULATING WATER COOLING TOWERS

Add Antimicrobial N-20 to the basin (or any other point of uniform mixing). Additions must be made with a metering pump; it may be continuous intermittent, depending on the severity of the contamination when treatment is begun, and the retention time of the system. Optimum performance with this product is attained by continuous or intermittent treatment. If "shock" treatment is used, the blowdown must be discontinued for 24-48 hours.

**FOR CONTROL OF BACTERIA:** Add 0.00095-0.0095 gallon Antimicrobial N-20 per 1,000 gallon of water in system, depending on severity of contamination.

**Intermittent or Slug Method: Initial Dose:** When system is noticeably fouled, add 0.0048-0.0095 gallon Antimicrobial N-20 per 1,000 gallon of water in the system every 4 days, or as needed to maintain control. **Subsequent Dose:** When microbial control is evident add 0.0024-0.0095 gallon Antimicrobial N-20 per 1,000 gallon of water in the system every 4 days, or as needed to maintain control. Badly fouled Systems must be cleaned before treatment is begun.

#### Continuous Feed Method

**Initial Dose:** When the system is noticeably fouled, add 0.0048- 0.0095 gallon Antimicrobial N-20 per 1,000 gallon of water to the system. **Subsequent Dose:** Maintain this level by pumping a continuous feed of 0.00095-0.0048 gallon Antimicrobial N-20 per 1,000 gallon of water to the system per day. Badly fouled Systems must be cleaned before treatment is begun.

#### FOR CONTROL OF FUNGI AND ALGAE

Add 0.029-0.095 gallon Antimicrobial N-20 per 1,000 gallon of water in system, depending on severity of contamination.

**Intermittent or Slug Method: Initial Dose:** When system is noticeably fouled, add 0.0048-0.0095 gallon Antimicrobial N-20 per 1,000 gallon of water in the system every 4 days, or as needed to maintain control. **Subsequent Dose:** When microbial control is evident add 0.0024-0.0095 gallon Antimicrobial N-20 per 1,000 gallon of water in the system every 4 days, or as needed to maintain control. Badly fouled Systems must be cleaned before treatment is begun.

#### Continuous Feed Method

**Initial Dose:** When the system is noticeably fouled, add 0.048- 0.095 gallon Antimicrobial N-20 per 1,000 gallon of water to the system. **Subsequent Dose:** Maintain this level by pumping a continuous feed of 0.029-0.095 gallon Antimicrobial N-20 per 1,000 gallon of water to the system per day. Badly fouled Systems must be cleaned before treatment is begun.

[Text in brackets [XXX] may or may not appear on final label]

### **ENHANCED OIL RECOVERY SYSTEMS**

For controlling slime-forming bacteria, sulfide producing bacteria, yeasts, and fungi in oil field water, polymer or micellar flood, water disposal systems, or other oil field water systems, add 1-80 ppm Antimicrobial N-20 (0.1-6.4 gallon Antimicrobial N-20 per 2400 barrels of water) depending on the severity of contamination.

Additions must be made with a metering pump either continuously or intermittently.

#### **Continuous Feed Method**

When the system is noticeably fouled, add 10-80 ppm Antimicrobial N-20 (0.8-6.4 gallon Antimicrobial N-20 per 2400 barrels of water) continuously until the desired degree of control is achieved. Subsequently, treat with 1-15 ppm Antimicrobial N-20 (0.1-1.2 gallon Antimicrobial N-20 per 2400 barrels of water) continuously or as needed to maintain control.

#### **Intermittent or Slug Method**

When the system is noticeably fouled, or to maintain control of the system, add 10-80 ppm Antimicrobial N-20 (0.8-6.4 gallon Antimicrobial N-20 per 2400 barrels of water) intermittently for 4-8 hours per day, and from 1-4 times per week, or as needed depending the severity of contamination. Addition of Antimicrobial N-20 may be made at the free knockouts, before or after the injection pumps and injection well headers. NOTE: For control of bacteria, yeast, and fungi in aqueous solutions biopolymer used in flooding operations, add 15-80 ppm Antimicrobial N-20 (1.2-6.4 gallon Antimicrobial N-20 per 2400 barrels of water). Additions of Antimicrobial N-20 must be made with a metering pump immediately after preparation of the aqueous biopolymer solution to prevent loss of viscosity.

### **INDUSTRIAL AIR-WASHER SYSTEMS**

Add 0.0015-0.095 gallon Antimicrobial N-20 per 1,000 gallon of water in the system, depending upon the severity of the contamination of control slime-forming bacteria and fungi in industrial air-washer systems.

**Intermittent or Slug Method** NOTE: For use only in industrial air washer systems that maintain effective mist eliminating components.

### **PULP & PAPER MILLS**

For the control of bacterial, fungal, and yeast growths in pulp, paper and paperboard mills, add Antimicrobial N-20 at the rate of 0.15-0.50 lb/ton of pulp or paper (dry basis). Addition may be continuous or intermittent, depending upon the type of system and the severity of contamination. It must be made with a metering pump at a location that will ensure uniform distribution of Antimicrobial N-20 in the mass of fiber and water, such as the beaters, jordan inlet or discharge, broke chests, furnish chests save-alls, and white-water tanks. Heavily fouled systems must be boiled out, then treated with 0.15-0.35 lb Antimicrobial N-20 per ton of paper (dry basis), as necessary for control. Moderately fouled systems must be treated continuously with 0.35-0.50 Antimicrobial N-20 per ton of paper (dry basis) until the slime accumulation is controlled. Addition rates can then be reduced to 0.15-0.35 lb Antimicrobial N-20 per ton of paper on a continuous or intermittent basis, as needed for control. Dislodged slime may cause breaks in the paper and a clean up of the paper machine is advisable. Slightly fouled systems must be treated continuously with 0.15-0.35 lb Antimicrobial N-20 per ton of paper (dry basis) until the slime is controlled, then added on an intermittent basis to maintain control.

[Text in brackets [XXX] may or may not appear on final label]

### **PAPER & PAPER AUXILIARIES\*/ADDITIVES\***

Use Antimicrobial N-20 as a preservative for the control of bacteria and fungi in paper and paper additives\*. Antimicrobial N-20 may be fed directly to the additive at the following recommended dosages.

Dose Ranges:

Paper Auxiliaries\*/Additives\* and Paper Slurries.....125-2000 ppm

**\*Not For Use In The State Of California**

### **REVERSE OSMOSIS SYSTEM**

(Not For Use In The State Of California)

Antimicrobial N-20 may be used to control bacteria and reduce biofouling in industrial membrane systems (reverse osmosis, ultrafiltration, micro filtration). Acceptable applications include reverse osmosis for the production of boiler makeup water, rinsing of electric components, and industrial wastewater treatment. Antimicrobial N-20 may be either slug fed or continuously fed to the feed streams of membrane systems. For slug feed, add between 50 and 70 ppm Antimicrobial N-20 for 30 minutes to 3 hours. Frequency of addition must be every 5 days or as needed. When fed continuously, feed rate must be between 10 and 100 ppm Antimicrobial N-20. NOTE: For industrial systems in which Antimicrobial N-20 residuals cannot be tolerated, Antimicrobial N-20 must be slug fed. During and for 30 minutes to 1 hour following chemical addition, permeate and concentrate streams must be diverted to waste.

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## **MATERIAL PRESERVATION**

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### **ADHESIVE, GLUES AND TACKIFIER PRESERVATION:**

Add Antimicrobial N-20 as an in-container preservative for the control of bacteria and fungi in water soluble and water dispersed adhesives. Antimicrobial N-20 can be directly mixed homogeneous into to dry glues before they are concentrated.

Dose Ranges (per 1000 gallons of material):

Albumin Containing Glues, Bone Glues, Casein-Containing Adhesives, Cellulose-Based Adhesives, Dextrin-Based Adhesives, Fish Glues, Gelatin-Based Glues, Leather Glues, Plant Glues, Polymer Dispersion-Based Adhesives, Skin Glues, Starch-Based Glues (Liquid) (Solid) 25-2000 ppm

### **CONSTRUCTION PRODUCTS AND HOUSEHOLD PRODUCTS**

**[(Not For Use In The State Of California)]**

Add Antimicrobial N-20 for the control of bacteria and fungi in water soluble and water dispersed construction products. Antimicrobial N-20 can be fed either directly to the finished construction or household product or to one of the raw materials used in the formulation of the construction and/or household product.

Dose Ranges (per 1000 gallons of material):

Biopolymers \*(e.g. Xanthan), Caulking Materials, Mastics, Ceramic Glazes\*, Chemical Cleaning Solutions, Cleaning Solutions, Concrete and Masonry Additives\*, Fire Extinguishing Medium\*, Photographic Gelatins\*, Plasters\*, Polishes, Rubber Systems\*, Tints\*, Wax Emulsions 25-2000 ppm

For Use In Non Food Contact Applications Only

**[\*Not For Use In The State Of California]**

[Text in brackets [XXX] may or may not appear on final label]

**METAL WORKING FLUIDS CONTAINING WATER**

This product is effective in metalworking fluid concentrates, which have been diluted in water at ratios of 1:100 -1:4. For controlling (or inhibiting) the growth of bacteria, fungi, and yeasts that may deteriorate metalworking fluids containing water, add Antimicrobial N-20 to the fluid in the collection tank. Additions must be made with a metering pump.

**Initial or Slug Dose:** When the system is just noticeably fouled, add 0.25 gallon Antimicrobial N-20 per 1,000 gallon of metalworking fluid to the system. Repeat until control is achieved.

**Subsequent Dose:** When microbial control is evident, add 0.1-0.2 gallon Antimicrobial N-20 per 1,000 gallon of metal working fluid per day, or as needed to maintain control. Additions can be made continuously or intermittently. Slug the system as required.

**PAINTS, COATINGS AND STAINS\*- For Use In Non Food Contact Applications Only:**

Antimicrobial N-20 is generally incorporated directly into pigments and fillers, but it can also be first dissolved in a suitable solvent or added directly to the pre-heated binder systems. For best results, the preservative must be homogeneously incorporated into the stain or paint. Discoloration may occur, and must be evaluated.

Dose Ranges (per 1000 gallons of material): Alkyd Resin-Based Systems, Casein-Systems, Latex-Based Systems, Oil-Containing Systems, Synthetic Resin Dispersions.....125-2000 ppm

For Use In Non Food Contact Applications Only

**\*Not For Use In The State Of California**

**PIGMENTS, DYES AND FILLER SUSPENSIONS**

Mix Antimicrobial N-20 evenly with dispersing agents for processes where the temperature does not exceed 100°C. For all other processes, Antimicrobial N-20 is metered directly into the material to be preserved during the cooling step after the temperature falls below 50°C and homogeneously distributed by stirring.

Dose Ranges (per 1000 gallons of material):

Calcium Carbonate Slurries, Carbon Black Pigment Slurries, Clay Slurries, Iron Oxide Pigment Slurries, Kaolin Slurries, Organic Dyes and Pigment Slurries, Other Filler Suspensions, Starch Slurries.....125-2000 ppm

For Use In Non Food Contact Applications Only

**POLYMER DISPERSIONS AND EMULSIONS:**

Antimicrobial N-20 is added immediately after the preparation of the polymer dispersion or emulsion during the cooling process. Losses of active ingredient caused by elevated temperatures must be avoided.

Dose Ranges: (Polymer Dispersions and Emulsions) (per 1000 gallons of material):

Acrylic-Systems, Other Polymer Dispersions, Polyester-Based Systems, Polyurethane-Based Systems, Polyvinyl acetate (PVA) Systems, Styrene Butadiene Systems, VinyU Acrylic-Based System.....125-2000 ppm

For Use In Non Food Contact Applications Only



[Text in brackets [XXX] may or may not appear on final label]

## **EQUIPMENT CLEANING**

**[(Not For Use In The State Of California)]**

This product can be used to kill microorganisms present in solutions or growing on the surfaces of process equipment such as reaction vessels, storage tanks, and containers, piping and hoses. For standard cleaning of equipment, add 50 to 250 ppm of this product in an aqueous solution to process piping and equipment. Heavily fouled solutions or equipment may be treated with this product. After treating process equipment with this product, allow the solution to be in contact with surfaces for up to four hours. If bleach is being used for cleaning purposes at 50-250 ppm available chlorine, this product can be used as part of a dual treatment program at 50-100 ppm by weight, in combination with sodium hypochlorite. Treatment process equipment with chlorine first. Follow this treatment with this product. Do not combine concentrated sodium hypochlorite solution with this product.

Not for use in Food/Beverage processing equipment.

**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.

8/15