

39967-101

9/18/2013

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460



Office of Pesticide Programs

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

SEP 18 2013

Attention: Barbara Sadler  
Regulatory Affairs Specialist

Subject: N-521 P  
EPA Registration No.39967-101  
Amendment Dated May 9, 2013

The amendment, submitted in connection with registration under section 3©(7)(A) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, to add additional use sites to the product label, is acceptable, provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3©(5) and sec. 4 uses when the Agency requires all registrants of similar products to submit such data.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the "accepted" product labeling is enclosed for your records. Submit two (2) copies of final printed labeling before you release the product for shipment.

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6217.

Sincerely,

A handwritten signature in black ink that reads "M Swindell".

Marshall Swindell  
Product Manager (33)  
Regulatory Management Branch 1  
Antimicrobials Division (7510P)

Enclosure

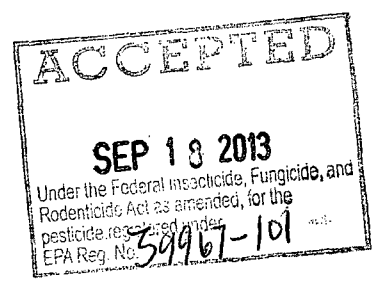


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# LANXESS

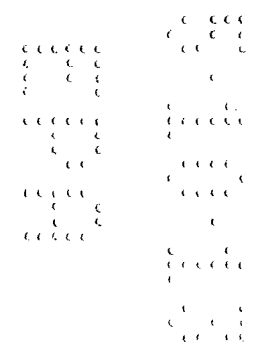
## Energizing Chemistry

Product Information



### N-521<sup>®</sup> P

EPA Registration Number 39967-101



# N-521<sup>®</sup> P

**FOR INDUSTRIAL USE AS A PRESERVATIVE TO INHIBIT AND CONTROL THE GROWTH OF SLIME FORMING FUNGI AND BACTERIA IN PULP AND PAPER MILL SYSTEMS, OILFIELD DRILLING MUDS AND WORKOVER OR COMPLETION FLUIDS, OILFIELD WATER TREATMENT AND WATER FLOODS, FOR THE PRESERVATION OF CLAY SLURRIES, ADHESIVES, COATINGS AND HIGH VISCOSITY SUSPENSIONS, RECIRCULATING COOLING WATER, BUILDING MATERIALS**

## 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.**

### **PULP AND PAPER MILL SYSTEMS**

N-521<sup>®</sup> P is effective in inhibiting the growth of slime forming fungi and bacteria in pulp and paper mill systems. Add 0.09 to 0.38 pounds of N-521<sup>®</sup> P per ton of finished product. The exact amount necessary for effective control will vary depending on the ingredients; temperature and equipment used in the mill system and should be determined by actual test. Systems, which show considerable slime fouling, should be cleaned thoroughly prior to treatment.

METHOD OF ADDITION: N-521<sup>®</sup> P should be added at a point in the system (raw stock chest, beater and / or refiner chest, or machine chest-wirepit) where there will be sufficient time and agitation for thorough dispersion.

### **FOR INDUSTRIALLY PREPARED WATER-BASED SUSPENSIONS (PIGMENT SLURRIES, ADHESIVES, POLYMERS AND STARCHES) USE: FOR THE PRESERVATION OF CLAY SLURRIES, ADHESIVES, COATINGS AND HIGH VISCOSITY SUSPENSIONS**

N-521<sup>®</sup> PAC-24 is effective in inhibiting the growth of fungi and bacteria which cause microbiological degradation and slime formation in slurries of starch, clay, calcium carbonate or titanium dioxide; paper coatings; and high viscosity suspensions (polymers, starches, adhesives, clay slurries, glues, coating, resin emulsions) during processing at use levels of 0.01% to 0.5% by weight. This material can be packaged in pre-measured water-soluble polyvinyl plastic bags for accurate additions and safe handling. Add 1 to 50 pre-measured PVA one pound bags per 10,000 lbs of material. The most effective product usage rate within the effective range of 0.01% to 0.5% by weight must be determined by actual test on each specific

formulation and situation since performance will vary depending on the ingredients in the formulation being preserved, its storage conditions, and the length of preservation time required.

**METHOD OF ADDITION:** For preservation of aqueous systems, N-521<sup>®</sup> P should be added at a point in the processing where there will be sufficient time and agitation for thorough dispersion.

### **OILFIELD DRILLING MUDS AND WORKOVER OR COMPLETION FLUIDS**

N-521<sup>®</sup> PAC-24 is effective in the control of slime-forming and/or spoilage bacteria in oilfield drilling mud and completion fluids. Calculate the number of pounds of N-521<sup>®</sup> P needed to produce a concentration of 520 ppm (0.18lb/bbl) in the drilling mud circulation system. Because of the wide variation in drilling mud composition and bacterial contamination, greater or lesser amounts of N-521<sup>®</sup> P may be prescribed.

**METHOD OF ADDITION:** For best results add N-521<sup>®</sup> P in a thin stream to the mud pit while the drilling fluid is circulating. As the total volume increases, due to greater well depth, add additional N-521<sup>®</sup> P to maintain the proper concentration.

### **OILFIELD WATER TREATMENT AND WATER FLOODS**

N-521<sup>®</sup> P is effective in the control of slime-forming and/or spoilage bacteria in oilfield water treatment and water floods. Calculate the total volume of water to be treated. Using this volume, calculate the number of pounds of N-521<sup>®</sup> P needed to produce a concentration of approximately 625 ppm N-521<sup>®</sup> P. For water-soluble bags add 1 pound of N-521<sup>®</sup> P per each 191 gallons of total volume will produce a concentration of approximately 625 ppm N-521<sup>®</sup> P

**METHOD OF ADDITION:** To maintain bacterial control, add 0.73 pounds of N-521<sup>®</sup> P to each 1000 gallons of total volume each week. For water-soluble bags, add 1 pound of N-521<sup>®</sup> P to each 1363 gallons of total volume. Because of the wide variation in waters found in the oilfield, greater or lesser amounts of N-521<sup>®</sup> P maybe required in a particular location.

### **RECIRCULATING COOLING WATER SYSTEMS**

N-521<sup>®</sup> P is effective for control of algae, fungi, and slime forming bacteria. Dosages for recirculating cooling water systems will depend on the condition of the system prior to treatment initiation. Systems, which are heavily contaminated, should be cleaned first. Apply N-521<sup>®</sup> P to the cleaned system when growth is first noticed.

**INITIAL DOSE:** Calculate the total volume of water to be treated. Using this volume, calculate the number of pounds of N-521<sup>®</sup> P needed to produce a concentration of 7.5 – 15 ppm N-521<sup>®</sup> P per each 1000 gallons of water in the system. For water soluble bags add 1 pound of N-521<sup>®</sup> P per each 8,000 – 16,000 gallons of water in the system. This doses may be a continuous treatment or applied once, twice or three times weekly or as required to control the growth of slime forming organisms.

**SUBSEQUENT DOSAGE:** When microbial control is evident add 1.25 – 7.5 ppm of N-521<sup>®</sup> P per 1000 gallons of water in the system as a continuous treatment daily or every three days as required to maintain control. For water-soluble bags, add 1 pound of N-521<sup>®</sup> P per each 16,000 – 96,000 gallons of water in the system.

**BUILDING MATERIALS**

N-521<sup>®</sup> P is effective for the control of bacteria, yeast and fungi in water based and water dispersed construction products. N-521<sup>®</sup> P can be fed at a concentration of 200 – 2000 ppm either directly to the finished building material or to one of the raw materials, which may include lignin, molasses, polymer or biopolymer dispersions, emulsions, or solutions used in formulation of building industry materials.

EFFECTIVE DOSAGES:

Caulking materials	200 – 2000 ppm
Concrete admixtures	200 – 2000 ppm
Concrete and masonry additives	200 – 2000 ppm
Other materials and auxiliaries	200 – 2000 ppm

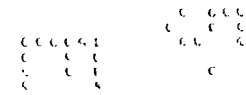
**REMARKS**

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



<p>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.</p>
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