

39967-101

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

November 17, 2014

Luanne Jeram
Head, Regulatory Affairs MPP NA
LANXESS Corporation
111 RIDC West Park Drive
Pittsburgh, PA 15275-1112

Subject: Label Amendment – Revision of Label Language
Product Name: N-521 P
EPA Registration Number: 39967-101
Application Date: September 19, 2014
Decision Number: 495958

Dear Ms. Jeram:

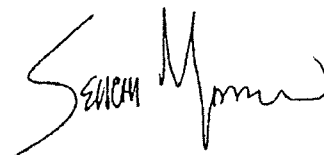
The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable.

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 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 black ink, appearing to read "SEIICHI Murasaki". The signature is written in a cursive style with a large initial "S" and "M".

Seiichi Murasaki
Acting Product Manager 33
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs

N-521[®] P

Fungicide/Bactericide

Inhibits and controls growth of
slime forming fungi and bacteria

PRESERVES AQUEOUS SYSTEMS

Active Ingredient:

Tetrahydro-3,5-dimethyl-2H1,3,5-thiadiazine-2-thione

.....98%

Inert Ingredients2%

Total.....100%

DANGER

KEEP OUT OF REACH OF CHILDREN

MAY BE HARMFUL IF SWALLOWED

EPA Reg. No. 39967-101

EPA Est. No.

LOT NO.:

NET WT.:

LANXESS

Energizing Chemistry

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

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PRECAUTIONARY STATEMENTS

DANGER

HAZARDS TO HUMANS AND DOMESTIC ANIMALS
Corrosive. Causes skin burns. Do not get in eyes, on skin, or on clothing. May be fatal if swallowed. Harmful if absorbed through skin or inhaled. Avoid breathing dust. Wear coveralls over long sleeved shirt and long pants, socks, shoes and chemical resistant gloves (such as made out of any waterproof material, selection category A).

User Safety Recommendations

Wash hands before, eating, drinking, chewing gum, using tobacco, or using the toilet.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Remove PPE after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

FIRST AID:

If on Skin or Clothing: Take off contaminated clothing. Rinse skin 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 a poison control center or doctor. Do not give anything by mouth 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 mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

If in Eyes: Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 15 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Poison Control Centers: 1-800-222-1222. You may also contact 1-800-410-3063 for emergency medical treatment information.

NOTE TO PHYSICIAN

Probable mucosal may contraindicate the use of gastric lavage. This product is corrosive to the skin. Treat symptomatically.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. 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.

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 applications information refer to the Product Bulletin.

RECOMMENDATIONS

NOTE: N-521® P should not be used in formulations containing mercurials or other components that are not compatible with sulfur compounds.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Keep away from heat and flame, protect from temperatures in excess of 140°F. Do not reuse container.

STORAGE: Keep container tightly closed when not in use. Do not store near food or feedstuffs. Can be stored at temperatures as low as minus 50°F.

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.

PVA BAGS: Water soluble bags are dissolved completely in the processes. Unused product should be disposed of according to pesticide disposal instructions. Obtain and read the Material Safety Data Sheet Section 13.

CONTAINER HANDLING AND DISPOSAL
FIBER DRUMS (or FIBER BOXES) WITH PLASTIC LINERS: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by state and local authorities. If fiber drum/box is contaminated and cannot be reused, dispose of in the same manner.

ACCEPTED

11/17/2014

Under the Federal Insecticide, Fungicide,
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 39967-101

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LANXESS

Energizing Chemistry

Product Information

N-521[®] P

EPA Registration Number 39967-101

N-521[®] 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[®] 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[®] 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[®] 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[®] 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.

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METHOD OF ADDITION: For preservation of aqueous systems, N-521[®] 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[®] 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[®] 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[®] P may be prescribed.

METHOD OF ADDITION: For best results add N-521[®] 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[®] P to maintain the proper concentration.

OILFIELD WATER TREATMENT AND WATER FLOODS

N-521[®] 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[®] P needed to produce a concentration of approximately 625 ppm N-521[®] P. For water-soluble bags add 1 pound of N-521[®] P per each 191 gallons of total volume will produce a concentration of approximately 625 ppm N-521[®] P

METHOD OF ADDITION: To maintain bacterial control, add 0.73 pounds of N-521[®] P to each 1000 gallons of total volume each week. For water-soluble bags, add 1 pound of N-521[®] 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[®] P maybe required in a particular location.

RECIRCULATING COOLING WATER SYSTEMS

N-521[®] 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[®] 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[®] P needed to produce a concentration of 7.5 – 15 ppm N-521[®] P per each 1000 gallons of water in the system. For water soluble bags add 1 pound of N-521[®] P per each 8,000 – 16,000 gallons of water in the system. This doses maybe 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[®] 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[®] P per each 16,000 – 96,000 gallons of water in the system.

BUILDING MATERIALS

N-521[®] P is effective for the control of bacteria, yeast and fungi in water based and water dispersed construction products. N-521[®] 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

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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

WOOD AND WOOD PRODUCTS

N-521[®] P is recommended for the internal remedial treatment and protection of wood products such as utility poles, pilings, timbers, and other large solid or laminated wood products against fungal decay. N-521[®] P is designed to be placed inside the wood product to be treated. The total amount applied will be dependent on the size of the wood unit and the zone to be protected. N-521[®] P is applied in treatment holes drilled into the wood at a 45 degree angle downward or greater, which are then plugged. For wood in ground contact, the first hole should start at or slightly below ground-line and should be arranged in a spiral pattern covering the treatment zone with about 6 to 12 inches vertically between holes. Do not overfill the treatment holes to allow room for a plug.

The following example can be used as a guide for the application of this product to treat the groundline zone of a 40 inch circumference standing utility pole.

1. Drill three 7/8 inch diameter by 14 inch long holes at a steep downward angle in a spiral pattern starting at groundline as described above.
2. Apply 70 grams of N-521[®] P into each hole, using a calibrated applicator.
3. Add liquid accelerant if desired to treatment hole.
4. Plug the treatment hole with a tight fitting treated wooden dowel, removable plastic plug or other suitable cap.

An accelerant of a 1% solution of copper naphthenate in mineral spirits may be added to treatment holes after N-521[®] P, and is designed to speed the decomposition and release of active fumigant inside the wood product. Accelerating the release of fumigant is especially desirable when active decay is present. Keep accelerants away from N-521[®] P except in treatment holes, which should be plugged immediately after they combine.

N-521[®] P is not to be used indoors or underneath indoor structures.

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.

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