

39967-102

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

APR 29 2014

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

LANXESS Corporation  
111 RIDC Park West Drive  
Pittsburgh, Pennsylvania 15275-1112  
Attn: Luanne Jeram

**Subject: Amended Reregistration Label**  
N-521 PAC-24  
EPA Registration Number 39967-102  
EPA Decision Number 430134

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the reregistration of the above referenced product in connection with the Dazomet RED, and has concluded that your submission is acceptable.

NOTE: This product is **not** being reregistered under sections 3(c)5 and 4(g) of FIFRA at this time.

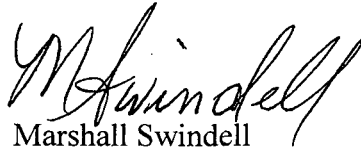
Please note that the record for this product currently contains the Confidential Statements of Formulation (CSFs) listed below. Any previously dated CSFs are superseded.

- Basic CSF, dated June 22, 2012

A copy of your label stamped "Accepted" is enclosed along with copies of the acute toxicity and product chemistry reviews completed for the subject product. Products shipped after 12 months from the date of this amendment or the next printing of the label whichever occurs first, must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e).

If you have any questions about this letter, please contact Karen Leavy at [leavy.karen@epa.gov](mailto:leavy.karen@epa.gov).

Sincerely,



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

# N-521<sup>®</sup> PAC-24

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 COMPLETION FLUIDS\*, OILFIELD WATER TREATMENT\*, PRESERVATION OF CLAY SLURRIES, ADHESIVES, COATINGS AND HIGH VISCOSITY SUSPENSIONS, RECIRCULATING COOLING WATER\* AND BUILDING MATERIALS\*

**ACTIVE INGREDIENT:** (present as sodium salt)  
Tetrahydro-3,5-dimethyl-2H1,3,5-thiadiazine-2-thione ... 24%

**INERT INGREDIENTS:** ..... 76%  
**TOTAL:** ..... 100%

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER PELIGRO**  
**CORROSIVE**  
**CAUSES EYE AND SKIN DAMAGE**

EPA Reg. No. 39967-102  
EPA Est. No.

NET WT.:

LOT NO.:

**ACCEPTED**

APR 29 2014

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 39967-102

**LANXESS**

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

**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.

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**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
Corrosive. Causes irreversible eye damage. Causes skin burns. Do not get in eyes, on skin, or on clothing. May be fatal if inhaled. Do not breathe vapor or spray mist. Harmful if swallowed. Harmful if absorbed through the skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear protective eyewear (goggles, face shield, safety glasses). Wear coveralls worn over long sleeved shirt and long pant, chemical resistant footwear, socks, and chemical resistant gloves (such as made out of any waterproof material, selection category A). Wear respirator with an organic vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with organic vapor (OV) cartridge or a canister with any NRP or HE prefilter. When mixing and loading wear a chemical resistant apron. When cleaning equipment wear a chemical resistant apron.

**User Safety Requirements**

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate Do not reuse them.

**User Safety Recommendations:**

Wash hands before, eating, drinking, chewing gum, using tobacco, or using the toilet. User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. User should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**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 the exposure conditions. For further applications information refer to the Product Bulletin.  
\*Refer to Product Bulletin for approved uses in California

**BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET (MSDS) FOR THIS PRODUCT.**

The LANXESS Pittsburgh Emergency Response Telephone Number is 800-410-3063

**IN CASE OF CHEMICAL EMERGENCY, CALL CHEMTREC: (800) 424-9300**

**FIRST AID**

**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 5 minutes, then continue rinsing eyes. 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 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person. 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

**Note to Physician:** Probable mucosal may contraindicate the use of gastric lavage. This product is corrosive to the eyes and skin. Treat symptomatically.

**STORAGE AND DISPOSAL**

**DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.**

**PESTICIDE STORAGE:** Container should be stored in a cool, dry, well-ventilated area. Do not store near heat or open flame. Exercise due caution to prevent damage to or leakage from the container. Keep container closed when not in use. Do not reuse container.

**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.

**CONTAINER HANDLING AND DISPOSAL**

**NONREFILLABLE CONTAINER.** Do not refill or reuse container. Triple rinses container (or equivalent) promptly after emptying. Triple rinse as follows: **PALLS** (equal to or less than 5 gallons): Empty remaining contents into application equipment or mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**DRUMS and TOLES/BINS** (greater than 5 gallons): Empty remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. 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. Turn container over onto its other 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.

**ALL NONREFILLABLE CONTAINERS:** Offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.

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# LANXESS

Energizing Chemistry

Product Information

ACCEPTED  
APR 29 2014  
Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide, registered under  
EPA Reg. No. 39967-102

**N-521<sup>®</sup> PAC-24**

EPA Registration Number 39967-102

# N-521<sup>®</sup> PAC-24

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> PAC-24 is effective in inhibiting the growth of slime forming fungi and bacteria in pulp and paper mill systems a use levels of 5-20 fluid ounces 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> PAC-24 can be added directly from drums by pump or gravity feed to the wet end of the mill system. Continuous flow by metering pumps is preferred to ensure adequate concentrations. Shock addition is to be avoided.

### FOR THE PRESERVATION OF SLURRIES AND HIGH VISCOSITY SUSPENSIONS

N-521<sup>®</sup> PAC-24 is effective as a preservative in aqueous systems at levels of 0.05 to 0.1% based on the total formulation in slurries of starch, clay, paper coating, and high viscosity suspensions (e.g. adhesives, resin emulsions, glues, etc.). The most effective product usage rate within the effective range of 0.05% to 0.1% 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> PAC-24 should be added at a point in the processing where there will be sufficient time and agitation for thorough dispersion. N-521<sup>®</sup> PAC-24 can be added directly from drums by pumps or gravity feed. Shock addition to be avoided.

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

\*NOT REGISTERED FOR THIS SPECIFIC USE IN CA.

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 at use levels of 75 gallons of N-521<sup>®</sup> PAC-24 per 1000 barrels of drilling fluids. Calculate the number of gallons on N-521<sup>®</sup> PAC-24 needed to produce a concentration of 2080 ppm (0.73lb/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> PAC-24 may be prescribed.

METHOD OF ADDITION: For best results add N-521<sup>®</sup> PAC-24 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> PAC-24 to maintain the proper concentration.

**OILFIELD WATER TREATMENT AND WATER FLOODS**

\*NOT REGISTERED FOR THIS SPECIFIC USE IN CA.

N-521<sup>®</sup> PAC-24 is effective in the control of slime-forming and/or spoilage bacteria in oilfield water treatment and water floods at use of 2.1 gallons of N-521<sup>®</sup> PAC-24 per each 1000 gallons of total volume will produce a concentration of approximately 2500 ppm N-521<sup>®</sup> PAC-24

METHOD OF ADDITION: To maintain bacterial control add 0.30 gallons of N-521<sup>®</sup> PAC-24 to each 1000 gallons of total volume each week. Because of the wide variation in waters found in the oilfield, greater or lesser amounts of N-521<sup>®</sup> PAC-24 maybe required in a particular location.

**RECIRCULATING COOLING WATER SYSTEMS**

\*NOT REGISTERED FOR THIS SPECIFIC USE IN CA.

N-521<sup>®</sup> PAC-24 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.

INITIAL DOSE: Apply 3.25 – 6.5 fluid ounces (30 – 60 ppm) per 1000 gallons of water in the system. This dose 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: Apply 0.5 – 3.25 fluid ounces of N-521<sup>®</sup> PAC-24 per 1000 gallons of water in the system as a continuous treatment daily or every three days or as required to maintain control.

**BUILDING MATERIALS**

\*NOT REGISTERED FOR THIS SPECIFIC USE IN CA., REGISTERED ONLY FOR CONCRETE ADMIXTURES IN CA.

N-521<sup>®</sup> PAC-24 is effective for the control of bacteria, fungi in water based and water dispersed construction products. N-521<sup>®</sup> PAC-24 can be fed at a concentration of 1000 – 10000 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 materials.

EFFECTIVE DOSAGES:

Caulking materials	1000 – 10000 ppm
Concrete admixtures	1000 – 10000 ppm
Concrete and masonry additives	1000 – 10000 ppm
Other materials and auxiliaries	1000 – 10000 ppm

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**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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