



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Antimicrobials Division (7510C)
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460

EPA Reg. Number:
67869-31

Date of Issuance:
APR 08 2004

NOTICE OF PESTICIDE:
 X Registration
 Re-registration

Term of Issuance:
CONDITIONAL

Name of Pesticide Product:
N-948 WB

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP code):

Verichem, Inc.
3499 Grand Avenue
Pittsburgh, PA 15225

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/deregistered under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA Section 3(c)(5)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA Section 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA Section 4.

2. Submit three copies of a final printed production label which makes the following changes:

- A. Revise the EPA Registration Number to read, "EPA Reg. No. 67869-31".

Signature of Approving Official:

Marshall Swindell, Product Manager,
Team 33, Regulatory Management Branch I,
Antimicrobials Division

Date:

APR 08 2004

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B. Add the following clarifying statement (or similar) at the end of the introductory information in the "Directions For Use", but prior to the actual dose instructions, "All ppms are expressed as active ingredient in water".

For materials preservation and all uses listed after that, adding the product to materials which weigh more or less than water (ie., specific density of product and diluent material are not equal), requires a slight correction be made to the declared ppms. This correction is not required if the dose is expressed using pounds of product per pounds of material to be preserved, instead of pounds of product per gallons of material, as shown. This more accurate dosing expression change should be made with the first amendment to this product.

C. In the "Hydrotesting" section, correct "(10 to 4000 ppm)" to "(11 to 4400 ppm)". This correction is needed because the product weighs more than water.

3. The product specific data matrix must be revised to show "pay" after the two cited "Rhodia" acute studies. This change must be made with the first product amendment.

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

A stamped copy of the label (accepted with comments) is enclosed for your records.

If you have any questions concerning this letter, please contact myself at 703-308-6341, or Tony Kish at (703) 308-9443.

Sincerely,



Marshall Swindell
Product Manager 33
Regulatory Management Branch 1
Antimicrobial Division(7510C)

Enclosure

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMAN AND DOMESTIC
ANIMALS**

DANGER! CORROSIVE Causes skin burns and irreversible eye damage. May be fatal if swallowed. Harmful if inhaled. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Do not get in eyes, on skin, or on clothing. Avoid breathing vapors. Wear protective eyewear such as goggles or a face shield, and rubber gloves when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS
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.

FIRST AID:
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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 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.

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 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.

NOTICE TO BUYER: Buyer assumes all risks of use and handling which are at variance in any way with the directions hereon. There are no warranties, which extend beyond the description on this label.

N-948 WB

A WATER-BASED FORMULATION TO INHIBIT AND CONTROL THE GROWTH OF MICROORGANISMS IN VARIOUS INDUSTRIAL PROCESS AND WATER SYSTEMS AND MATERIAL PRESERVATION.

Active Ingredient:	
Methylene bis thiocyanate	10.0%
Inert Ingredients	
	90.0%
TOTAL	100.0%

DANGER

• KEEP OUT OF REACH OF CHILDREN

LOT NO. _____

EPA Reg. No. 67869-

EPA Est. No. 67869-PA-01

_____ LB. NET WT. _____ kg

Made in U.S.A.



VERICHEM INC.

3498 Grand Avenue
Pittsburgh, PA 15201

ACCEPTED
with COMMENTS
in EPA Letter Dated:

APR 0 8 2004

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

67869-31

DIRECTIONS FOR USE: It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

N-948 WB is effective against a wide variety of bacteria, fungi and yeast in various Industrial Process and Water Systems and Material Preservation. The following guidance is given as a range for each pattern. Actual field-testing is recommended to achieve optimum effectiveness. N-948 WB is approved by the FDA (21 CFR 176.300) for use in the manufacturer of paper and paper-board that contacts food. Other than the paper related uses on this label, do not use for any other listed applications, which may involve indirect food or drinking water contact.

INDUSTRIAL PROCESS AND WATER SYSTEMS AIR WASHER SYSTEMS: For use only in industrial air washing systems that maintain effective mist eliminating components. Add 0.12 to 0.90 pounds of N-948 WB to 1000 gallons of water (1.4 to 10.8 ppm) in the air washer sump, or chill water sump to ensure uniform mixing, for the control of bacteria, fungi, and algae. A repeat treatment may be needed depending on the severity of contamination.

RECIRCULATING COOLING TOWERS: For the control of bacteria, algae and fungi, feed N-948 WB to the lower basin or some other point to ensure uniform mixing. Add 0.3 to 1.86 pounds per 1000 gallons of water (3.6 to 22 ppm) weekly or as needed for maintenance. For noticeably fouled systems use an initial dose of 0.40 to 0.90 pounds of N-948 WB (4.8 to 11 ppm) per 1000 gallons of water. Repeat if necessary to achieve control.

PAPER AUXILIARIES/ADDITIVES: Use N-948 WB as a preservative for the control of bacteria and fungi in paper and paper additives and as slug dose for the control of bacterial and fungal slime in the production of paper. N-948 WB may be fed directly to the additive at the following dose ranges or to the Beater or Hydropulper to ensure uniform mixing.

DOSE RANGES PER 1000 GALLONS OF WATER:
Paper Auxiliaries/Additives 6.9 to 69 pounds (82-827) ppm
Paper Slurries 6.9 to 69 pounds (82-827) ppm

DOSE RANGES PER TON (DRY BASIS) OF PULP OR PAPER PRODUCED:
Paper Mills 0.14 to 0.36 pounds (7 to 18 ppm)

BREWERY PASTEURIZER WATER: For Control of Bacteria, Yeasts and Fungi: Dosages of N-948 WB will depend upon the condition of the system. Systems, which are heavily contaminated, should be cleaned first. N-948 WB should be added to the first section of the pasteurizer. The initial dose should be (0.19 to 0.37 pounds of N-948 WB per 1000 gallons of water (2.3 to 4.4 ppm) once or twice weekly, or as needed to obtain control of slime forming organisms. To maintain control, add 0.092 to 0.84 pounds per 1000 gallons of water of N-948 WB (1.1 to 10 ppm) once, twice or three times weekly, or as needed. Addition of N-948 WB may be continuously or intermittently, as required to control growth.

PETROLEUM PRODUCTION AND DISTRIBUTION DRILLING, COMPLETION AND WORKOVER FLUIDS: Add N-948 WB to a drilling fluid system at a point of uniform mixing such as the circulating mud tank. Initial Treatment: Add 0.2 to 4.0 gallons of N-948 WB per 100 barrels of fluid (4.1 to 83 ppm) to a freshly prepared fluid depending on the severity of contamination. Maintenance Dose: Maintain a dose of 4.1 to 83 ppm by adding 0.2 to 4.0 gallons of N-948 WB per 100 barrels

of additional fluid, or as needed, depending on the severity of contamination.

HYDROTESTING: Water used to hydrotest pipelines or vessels should contain 0.1 to 40 gallons of N-948 WB per 1000 gallons water (10 to 4000 ppm), depending on water quality and length of time the equipment will remain idle.

MATERIAL PRESERVATION
ADHESIVE, GLUES AND TACKIFIER PRESERVATION: Add N-948 WB as an in-container preservative for the control of bacteria and fungi in water soluble and water dispersed adhesives. N-948 WB can be directly mixed homogeneous into the dry glues before they are concentrated.

DOSE RANGES PER 1000 GALLONS OF MATERIAL:

Albumin Containing Glues	6.9 to 69 pounds (82-827) ppm
Bone Glues	6.9 to 69 pounds (82-827) ppm
Casein-Containing Adhesives	6.9 to 69 pounds (82-827) ppm
Cellulose-Based Adhesives	6.9 to 69 pounds (82-827) ppm
Dextrin-Based Adhesives	6.9 to 69 pounds (82-827) ppm
Fish Glues	6.9 to 69 pounds (82-827) ppm
Gelatin-Based Glues	6.9 to 69 pounds (82-827) ppm
Leather Glues	6.9 to 69 pounds (82-827) ppm
Plant Glues	6.9 to 69 pounds (82-827) ppm
Polymer Dispersion-Based Adhesives	6.9 to 69 pounds (82-827) ppm
Skin Glues	6.9 to 69 pounds (82-827) ppm
Starch-Based Glues (Liquid)	6.9 to 69 pounds (82-827) ppm
Starch-Based Glues (Solid)	6.9 to 69 pounds (82-827) ppm

CONSTRUCTION PRODUCTS AND HOUSEHOLD PRODUCTS: Add N-948 WB for the control of bacteria and fungi in water soluble and water dispersed construction products. N-948 WB 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)	6.9 to 69 pounds (82-827) ppm
Caulking Materials	6.9 to 69 pounds (82-827) ppm
Mastics	6.9 to 69 pounds (82-827) ppm
Ceramic Glazes	6.9 to 69 pounds (82-827) ppm
Chemical Cleaning Solutions	6.9 to 69 pounds (82-827) ppm
Cleaning Solutions	6.9 to 69 pounds (82-827) ppm
Concrete and Masonry Additives	6.9 to 69 pounds (82-827) ppm
Concrete	6.9 to 69 pounds (82-827) ppm
Fire Extinguishing Medium	6.9 to 69 pounds (82-827) ppm
Photographic Gelatins	6.9 to 69 pounds (82-827) ppm
Plasters	6.9 to 69 pounds (82-827) ppm
Polishes	6.9 to 69 pounds (82-827) ppm
Rubber Systems	6.9 to 69 pounds (82-827) ppm
Tints	6.9 to 69 pounds (82-827) ppm
Wax Emulsions	6.9 to 69 pounds (82-827) ppm

FUEL PRESERVATION: Add N-948 WB for the control of bacteria and fungi in the following liquid hydrocarbon fuels and oils: crude oils, aviation fuels, kerosene, heating oils, diesel fuels, residual fuel oils, coal slurries, liquefied petroleum gases and petrochemical feedstock. Add N-948 WB directly into a fuel tank, storage or a flowing stream of fuel in a manner to ensure uniform distribution of the preservative in the fuel system. Slug dose or continuous feed methods are recommended. When the system is noticeably fouled, add 32 - 64 fluid ounces of N-948 WB per 10,000 gallons of fluid in the system. This will provide 25 to 50 ppm of N-948 WB and 2.5 - 5.0 ppm active ingredient. Repeat until control is achieved. Grossly contaminated systems should be physically cleaned to remove debris. When the system

is noticeably fouled add 64 - 128 fluid ounces of WB per 10,000 gallons of fluid to maintain the system. This will provide 50 to 100 ppm of N-948 WB 5.0 - 10 ppm active ingredient. Repeat every 4-6 weeks or when microbial contamination is detected.

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.

LEATHER TANNING: N-948 WB is used as preservative for the control of bacteria and fungi. Add N-948 WB directly into pickle solutions. An effective protection against mold attack may be obtained by adding N-948 WB into the pickling solution. For vegetable - tanned leathers and chrome leathers also be protected against mold attack by a treatment both sides of the material with a 0.025% - 0.1% solution of N-948 WB.

Dose Ranges:
Chrome leather (calculated on pick weight) 0.025 - 0.2
Leather pickling adhesives 0.025 - 0.2
Leather pigment finishes 0.025 - 0.2
Pickle solutions and pickled hides 0.025 - 0.2

METALWORKING FLUIDS, LUBRICANTS AND MINERAL OIL BASED PRODUCTS: Use N-948 WB as a preservative for the control of bacteria and fungi in Metalworking, Lubricants and Mineral Oil Based Products. Add N-948 WB directly to the cutting fluid recommended.

DOSE RANGES PER 1000 GALLONS OF MATERIAL:

Metalworking fluids-Mineral Oil Based	
Boring and Cutting Oils	6.9 to 37 pounds (82-444)
Cooling fluids (concentrates)	6.9 to 37 pounds (82-444)
(ready for use)	6.9 to 37 pounds (82-444)
Fuel oils	6.9 to 37 pounds (82-444)
Hydraulic oils	6.9 to 37 pounds (82-444)
Metalworking fluids-Non-Mineral Oil Based	
Cooling fluids	6.9 to 37 pounds (82-444)
Cutting Oils	6.9 to 37 pounds (82-444)

PAINTS, COATINGS AND STAINS: N-948 WB generally incorporated directly into pigments and but it can also be first dissolved in a suitable solvent such as water, or added directly to the pre-heated systems. For best results, N-948 WB should be homogeneously incorporated into the stain or Discoloration may occur, and should be evaluated.

DOSE RANGES PER 1000 GALLONS OF MATERIAL:

Allyl Resin-Based Systems	6.9 to 69 pounds (82-827)
Casein-Systems	6.9 to 69 pounds (82-827)
Latices-Based Systems	6.9 to 69 pounds (82-827)
Oil-Containing Systems	6.9 to 69 pounds (82-827)
Synthetic Resin Dispersions	6.9 to 69 pounds (82-827)

PIGMENTS, DYES AND FILLER SUSPENSIONS: N-948 WB is metered directly into the material preserved during the cooling step after the temperature falls below 50°C and homogeneously distributed during stirring.

DOSE RANGES PER 1000 GALLONS OF MATERIAL:

Calcium Carbonate Slurries	6.9 to 69 pounds (82-827)
Carbon Black Pigment Slurries	6.9 to 69 pounds (82-827)
Clay Slurries	6.9 to 69 pounds (82-827)
Iron Oxide Pigment Slurries	6.9 to 69 pounds (82-827)
Kaolin Slurries	6.9 to 69 pounds (82-827)
Organic Dyes and Pigment Slurries	6.9 to 69 pounds (82-827)
Other Filler Suspensions	6.9 to 69 pounds (82-827)

Final Approved 37-104