



U.S. ENVIRONMENTAL PROTECTION
AGENCY

Office of Pesticide Programs
Antimicrobials Division (7510P)
1200 Pennsylvania Avenue NW
Washington, D.C. 20460

EPA Reg.

Number:

84366-2

Date of

Issuance:

JAN 8 2008

Term of Issuance:

Conditional

Name of Pesticide Product:

Phicide Sodium (Sodium
Pyrethione 41% Aqueous
Solution) Industrial
Fungicide &
Bactericide

NOTICE OF PESTICIDE:

Registration
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Jim Wagner
PhiChem USA
c/o SynTech Global
PO Box 640
Hockessin, DE 19707

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration 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/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

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 sec 3(c)(7)(a) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 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. Make the labeling changes listed below before you release the product for shipment:
 - a. Revise the "EPA Registration Number to read, "EPA Reg. No. 84366-2".

Signature of Approving Official:

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

Date:

JAN 8 2008

Page 2

EPA Reg. No. 84366-2

- b. On page 1, the ingredient statement on the label must be changed from 59.00% Inert ingredients to 58.43% Inert ingredients to be consistent with the submitted Confidential Statement of Formula (dated September 14, 2007)

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 label is enclosed for your records. Submit one (1) copy of your final printed labeling prior to release of this product for shipment. If you have any questions concerning this letter, please contact Demson Fuller at (703) 308-8062.

Sincerely,



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

Enclosure: (Stamped Label)

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Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) Industrial Fungicide & Bactericide

Active Ingredient:

Sodium 2-pyridinethiol-1-oxide 41%

Inert Ingredients:

~~50%~~ 58.43

TOTAL:

100%

EPA Registration Number:

EPA Establishment Number:

Net Contents:

Keep Out of Reach of Children

WARNING

Manufactured by:

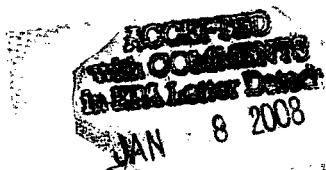
PhiChem USA
5280 Stoneridge Road
Suite 100
Pleasanton, CA 94588

First Aid

If in Eyes	<ul style="list-style-type: none"> - 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. - Call a Poison Control Center or doctor for treatment advice.
If on Skin or Clothing	<ul style="list-style-type: none"> - Take off contaminate clothing. Rinse skin immediately with plenty of water for 15-20 minutes. - Call a Poison Control Center or doctor for treatment advice.
If Swallowed	<ul style="list-style-type: none"> - 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. - Never give anything by mouth to an unconscious person.
If Inhaled	<ul style="list-style-type: none"> - Move person to fresh air. - If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable mouth-to-mouth, if possible. - Call a Poison Control Center or doctor for further treatment advice.

Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

Note to Physician: Convulsions, if persistent, may be controlled by careful intravenous use of short-acting barbiturates. Probably mucosal damage may contraindicate the use of gastric lavage.



Under the Federal Insecticide, Fungicide, and Rodenticide Act, amended, for the purpose of registered under FIFRA

84366-2

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**Precautionary Statements:
Hazards to Humans and Domestic Animals
Warning**

May be fatal if absorbed through the skin or inhaled. Causes substantial, but temporary, eye injury. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Do not breathe spray mist. Remove contaminated clothing and wash clothing before reuse.

Personal Protective Equipment (PPE):

Applicators and other handlers must wear:

- Goggles or face shield
- Long sleeved shirt and long pants
- Socks and shoes
- Chemical resistant gloves (such as rubber or waterproof gloves)

ACCEPTED
WITH COMMENTS
In EPA Letter Dated
JAN 8 2008
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
(FIFRA), for use as a pesticide,
Registration No. 84366-2

User Safety Requirements:

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing.

Chemical Hazards

Do not store or mix this product with strong oxidizing agents.

Environmental Hazards

This product is toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, ponds, streams, estuaries, oceans or public 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. This product is a chelating agent and should not be used with other chelating agents or chlorine.

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Do not store above 130°F (55°C). Keep container tightly closed when not in use. Do not store with strong oxidizing agents.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Triple rinse container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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Directions for Use

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- Do not apply this product in a way that will contact workers or other people.
- Do not use for applications involving direct or indirect food/drinking water contact.

Aqueous Based Fluids (Metalworking, Cutting, Cooling, and Lubricating Fluids):

To inhibit fungal and bacterial growth add an initial dose of up to 1,250 ppm of Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) (1.25 lbs. to 1,000 lbs. of solution) to the solution by pouring from the container and subsequent maintenance doses of up to 1,250 ppm (1.25 lbs. of Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) per 1,000 lbs. of solution) every 7-10 days or as needed.

Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) can be used at fluid to water ratios of 1:10 to 1:100. Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) may be added to the fluid at the time it is prepared (diluted) or to the reservoir (sump) containing the fluid after it is put into use. If it is added to the reservoir, the fluid should be circulated after addition to ensure mixing. Contaminated fluid systems should be cleaned prior to the initial addition of Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution). Drain the system, clean with a cleaner designed for this purpose, rinse with water and refill with fresh fluid containing Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) (up to 1,250 ppm). Frequent checks (at least once per week) of the bacterial and fungal population in the system should be made using standard microbiological plate count procedures or any of the commercial "dip-stick" type devices. When the bacterial count reaches 10^7 and/or the fungal count reaches 10^3 organisms per ml, add additional product according to the above directions. If this does not reduce the bacterial and/or fungal count below the above value in 12-24 hours, the fluid should be discarded and replaced after cleaning the system. Add Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) to the fresh fluid according to the above directions. When adding fresh diluted fluid to compensate for dragout or other losses, add Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) to make-up fluid according to the above directions.

To Inhibit the Growth of Bacterial and Fungi in Metalworking, Cutting, Cooling and Lubricating Fluid Concentrates:

Add an amount of Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) that will give up to a 1,250 ppm solution. The amount required in the concentrate will depend on the end use dilution. For example: If the desired level of Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) is 1,250 ppm and the end use dilution of the fluid is 5%, then a 2.5% concentration of Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) is required in the concentrate ($1,250 \text{ ppm} / 0.05 = 25,000 \text{ ppm}$ or 2.5%).

For the In-Can Preservation of Latex Emulsions Used in Adhesives, Caulks, Patching Compounds, Sealants, Pastes and Grouts:

To inhibit bacterial growth in latex emulsions for up to 1 year, a dosage of up to 1,000 ppm of Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) (1 lb. of Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) per 1,000 lbs. of emulsion) is recommended. Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) may be added at any time during the formulation procedure by pouring from the container.

In Aqueous Synthetic Fiber Lubricating (Spin Finishes):

To inhibit the growth of bacteria and the formation of bacterial slime in synthetic fiber lubricants (spin finishes) for up to 2-4 weeks during use, add 1,250 ppm (1.25 lbs. per 1,000 lbs. of lubricant) of Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) to the diluted lubricant. Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) may be used in lubricant solutions containing 5-10% lubricant concentrate to water to lubricant ratios of 20-1 to 10-1. Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) should be added by pouring from the container to the diluted lubricant in the dilution tank.

JAN 8 2008

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

84366-2

In Aqueous Based Inks:

To inhibit the growth of bacteria and fungi in inks such as aqueous based inks, printing solutions, pigment slurries or press cake, add up to 1,250 ppm of Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution). While the inks are in use, a concentration of 0.125% w/w of Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) is necessary. The amount of Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) to be added at the time of manufacture of the ink to obtain the above concentrations at the time of use will vary with the shelf-life of the ink. The table below shows the relationship.

Shelf-Life Ink (in Months)	% Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution)
8	0.25
12	0.3125
18	0.475
24	0.65
36	1.25

To inhibit the growth of bacteria in neutral or slightly acidic aqueous based jet-printer inks for up to 4 weeks while the inks are in use, add 0.75% w/w of Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) to the ink at the time of manufacture. To avoid decomposition of Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) during shelf-life of the ink, airtight packaging must be used. In all cases, Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) may be added to the ink at any point in the manufacturing process by pouring from the container.

For the Dry Film Preservation of Natural, and Synthetic Adhesives, Latexes, Urethane Foams, Caulks, Patching Compounds, Sealants, Architectural Paints, Industrial Paints and Coatings (Including Wood Coatings), Pastes, and Grouts:

Addition of up to 5,000 ppm (5 lbs. of Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) per 1,000 lbs. of formulation of the active ingredient can inhibit microbial growth (bacterial and fungal) in the dry film of these products. Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) can be added at any time during the formulation procedure. For example, sheet vinyl adhesives used in the installation of vinyl flooring can be preserved by the addition of 2,100 ppm of Phicide Sodium (Sodium Pyrithione 41% Aqueous Solution) (2.1 lbs. per 1,000 lbs. of adhesive).

Disclaimer

To the extent consistent with applicable law, Seller (whether manufacturer, distributor, or other) makes no warranty express or implied, including the implied warranty of merchantability, regarding this product except the composition as set forth in the ingredient statement herein, and shall not be liable for special or consequential damages, the exclusive remedy being the replacement of the product. To the extent consistent with applicable law, buyer and/or user assume all risk of possession, handling or use of this material when such use and/or handling is contrary to label instructions.

ACCEPTED
with COMMENTS
the EPA Letter Dated:

JAN 8 2008

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
enacted for the purpose of
regulating the sale and use of

84366-2