

4564-18

0710212007

U.S. ENVIRONMENTAL PROTECTION
AGENCYOffice of Pesticide Programs
Antimicrobials Division (7510P)
1200 Pennsylvania Avenue NW
Washington, D.C. 20460

EPA Reg.

Number:

4564-18

Date of

Issuance:

JUL 2 2007

Term of Issuance:

Conditional

Name of Pesticide Product:

TOLCIDE® PS20A

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Ian Bartlett
Rhodia, Inc.
8 Cedar Brook Drive
Cranbury, N.J. 08512-3717

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. 4564-18".

Signature of Approving Official:

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

Date:

JUL 2 2007

Page 2


EPA Reg. No. 4564-18

- b. Change the precautionary statement to read: DANGER: Corrosive. Causes eye damage and skin irritation. Do not get in eyes, on skin or on clothing. Wear long-sleeved shirt and pants or coveralls, goggles or face shield and chemical resistant gloves when handling. Prolonged or frequent skin contact may cause allergic reactions in some individuals. Harmful if inhaled. Avoid breathing vapor. May be fatal if swallowed. Wash thoroughly with soap and water before eating drinking, chewing gum or using Tobacco. Remove contaminated clothing and wash before reuse.

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 (3) copies 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)

3
7

TOLCIDE® PS20A

INDUSTRIAL ANTIMICROBIAL

ACTIVE INGREDIENT:
Tetrakis(hydroxymethyl) phosphonium sulfate 20%
OTHER INGREDIENTS 80%
TOTAL 100%

EPA Reg. No. 4564-XX

EPA Est. 550-TX-2
EPA Est. 80347-TX-1

KEEP OUT OF REACH OF CHILDREN
DANGER

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 eye.• 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.• Do not 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, preferably mouth-to-mouth, if possible.• Call a poison control center for further treatment advice.
If on skin or clothing:	<ul style="list-style-type: none">• 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.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage.	

In case of emergency call CHEMTREC at 1-800-424-9300.

Manufactured for:

Rhodia

Rhodia Inc. • 8 Cedar Brook Drive • Cranbury, NJ 08512-7500 • 609-860-4000

Product of the United Kingdom

ACCEPTED
with COMMENTS
EPA Letter Dated:
JUL 2 2007

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

4564-18

4
7

**PRECAUTIONARY STATEMENTS
HAZARD TO HUMANS AND DOMESTIC ANIMALS**

DANGER: Corrosive. Causes eye damage and skin irritation. Do not get in eyes, on skin or on clothing. Wear long-sleeved shirt and pants or coveralls, goggles or face shield and chemical-resistant gloves when handling. Prolonged or frequent skin contact may cause allergic reactions in some individuals. Harmful if inhaled. Avoid breathing vapor. May be fatal if swallowed. Wash thoroughly with soap and water and before eating, drinking, chewing gum or using tobacco. Remove contaminated clothing and wash before reuse.

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.

STORAGE AND DISPOSAL

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

STORAGE: Store this product in a cool, dry area away from direct sunlight and heat to avoid deterioration. In case of a spill, flood the area with large quantities of water.

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 label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent) all containers and offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or other procedures approved by state and local authorities.

ACCEPTED
WITH COMMENTS
EPA Letter Dated:
JUL 2 2007

Note: Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk and/or handling of this material, when such use and/or handling is contrary to label directions.

DIRECTIONS FOR USE

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

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

4564-18

Note: For cooling water systems of equal to or greater than 4000 gallons, do not apply by open pouring of liquid to cooling water systems; a metering pump delivery system is required for this use and application method.

INDUSTRIAL AND/OR COMMERCIAL RECIRCULATING COOLING WATER SYSTEMS (for control of bacteria, fungi and algae)

Initial Slug Dose: Add 350-1312.5 ppm of TOLCIDE® PS20A (70-262.5 ppm THPS) based on total water volume. Repeat until control is obtained. Thereafter, add either **Intermittently** 131.25-525 ppm of TOLCIDE® PS20A (26-105 ppm THPS) or **Continuously** 70-245 ppm of TOLCIDE® PS20A (14-49 ppm THPS) per day. Dirty systems must be cleaned prior to treatment.

HEAT TRANSFER SYSTEMS (Evaporative Condensers, Dairy Sweetwater Systems, Hydrostatic Sterilizers and Retorts, Brewery and Other Pasteurizers, and Warmers)

Add TOLCIDE® PS20A at the same application rates, and in the same manner as described above. It should be added to the system at a point of uniform mixing such as a basin area, sump area, or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

SERVICE WATER AND AUXILIARY SYSTEMS

TOLCIDE® PS20A should be added to service water and auxiliary systems at the same application rates, and in the same manner as described above. It should be added to the system at a point of uniform mixing such as a basin area, sump area, or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

AIR WASHER SYSTEMS

For control of bacteria and fungi. This product may be used only in air washer systems which have mist eliminating components. Pre-clean the system with detergent and allow air washer to run with fan on for two hours. Flush and check nozzles, manually cleaning as necessary. Add 131.25-350 ppm of TOLCIDE® PS20A (26-70 ppm THPS) at a point where uniform mixing and even distribution will occur. Repeat as needed to maintain control.

PAPER AND PAPERBOARD MANUFACTURING (for control of bacteria, fungi and algae)

a) For use as a slimicide in the manufacture of paper and paperboard products and adhesives that do not contact food.

Dosing: Additions should be made at a point in the system where mixing action is good, e.g. raw stock chest beater or mixing unit.

Add intermittently or continuously depending on mill conditions.

Intermittent Dosing: Add 122.5-1750 ppm of TOLCIDE® PS20A (24.5-350 ppm THPS) based on total water volume or an equivalent based on dry weight of paper produced.

Continuous Dosing: Add 70-245 ppm of TOLCIDE® PS20A (14-49 ppm THPS) based on total water volume or an equivalent based on dry weight of paper produced.

b) For use as a preservative to retard microbial growth in water-based coatings, starches, pigments and filler slurries. Do not use in paper and paperboard and adhesives that will contact food.

The treatment rate necessary to retard spoilage of the additive will vary with the extent of contamination of make-up water and the length of storage.

Dosing: Apply from 875-2500 ppm of TOLCIDE® PS20A (175-500 ppm THPS) to the additive or preservative based on the total weight of the additive and water.

INDUSTRIAL FRESH WATER SYSTEMS

Do not use in freshwater used in the manufacture of paper and paperboard products that may contact food. TOLCIDE® PS20A is effective in controlling algae in holding ponds and in controlling bacteria and fungi in holding and processing tanks of industrial fresh water systems supplying water to pulp and paper mills, textile mills, and other manufacturing plants. In pulp and paper mills, treatment of the fresh water with TOLCIDE® PS20A can make an important contribution to slime control. The use of TOLCIDE® PS20A as described will reduce the development of slime in fresh water pipes and other equipment, and on the pulp and paper mill machine parts contacted by fresh water.

For the control of algae in industrial fresh water systems, TOLCIDE® PS20A should be added to provide a concentration of 5-50 ppm of product (1-10 ppm THPS). Treatment should be based on the amount of water entering a pond or reservoir or leaving the pond or reservoir and entering the immediate processing operations. While treatment can be made continuously, regular slug-dosing treatment will provide adequate control.

INDUSTRIAL WASTEWATER SYSTEMS (Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks)

TOLCIDE® PS20A should be added to a wastewater system or sludge at a convenient point of uniform mixing such as digester. Add 1250-6250 ppm of TOLCIDE® PS20A (250-1250 ppm THPS) per 1,000 gallons of wastewater or sludge.

MACROFOULING CONTROL

TOLCIDE® PS20A should be added continuously to maintain a level of 20 ppm active ingredient (THPS) in the system for a period of at least 96 hours.

Initial Dose: When macrofouling is present in the system, apply 100 ppm of TOLCIDE® PS20A (20 ppm THPS) based on total water volume. Continue to add TOLCIDE® PS20A as needed to maintain the 20 ppm active ingredient (THPS) level for a period of at least 96 hours.

FIRE PROTECTION SYSTEMS

TOLCIDE® PS20A is effective at controlling microbial growth in waters and on pipe surfaces in fire protection systems. Such microbial growth when combined with other forms of corrosion can lead to accelerated corrosion rates and pitting corrosion, commonly referred to as microbiologically influenced corrosion. TOLCIDE® PS20A also helps to remove free oxygen from the water, thus eliminating an important nutrient for bacteria and an important reactant in many corrosion reactions.

5
7

ACCEPTED
with COMMENTS
Letter Dated:
JUL 2 2007
Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, and the Pesticide Act as
amended under EPA Reg. No.
4564-18

6
7

TOLCIDE® PS20A should be added to a fire protection system using a chemical metering pump capable of variable pump rates. The TOLCIDE® PS20A should be injected at a point, such as a riser, manifold or makeup feed water line, where uniform mixing and distribution will occur. Add 375-1500 ppm TOLCIDE® PS20A (75-300 ppm THPS) depending on severity of microbial contamination in the system. Repeat as needed.

SOLUTIONS / EMULSIONS

Not for use in manufacture of paper and paperboard products and adhesives that may come in contact with food. For the preservation of solutions, emulsions, adhesives and other aqueous liquid products, the addition of 0.0875% to 0.875% of TOLCIDE® PS20A (0.0175-0.175% THPS) is effective. Add at a point in the processing system where there will be sufficient time and agitation for good mixing and dispersion. The exact amount of TOLCIDE® PS20A to be added for the preservation of given formulations will depend on the components as well as local storage time and requirements.

OIL FIELD AND PETROCHEMICAL OPERATIONS

TOLCIDE® PS20A is effective in controlling sulfate reducing bacteria, general aerobic bacteria, including microorganisms that contribute to biofilm formation in oil field recovery, processing and distribution applications and supporting systems; such as injection water, water holding tanks, disposal well water, recirculating water handling systems, and pipelines. TOLCIDE® PS20A has been shown to dissolve iron sulfide and sequester iron when used under these conditions, leading to improved filter life and well injectivity, and reduction of hydrocarbon sheen. TOLCIDE® PS20A is also effective for use in controlling microbial growth in fluids used for drilling and stimulation of oil wells.

Water Floods

TOLCIDE® PS20A should be added to a water flood system at a point where uniform mixing will occur.

Initial Treatment: For a noticeably fouled system, add 350-1312.5 ppm TOLCIDE® PS20A (70-262.5 ppm THPS). When added to a flowing system, slug dose for 2-6 hours based on flow rates. Repeat as necessary until control is achieved.

Subsequent Treatment: Once control has been achieved, add 52.5-367.5 ppm TOLCIDE® PS20A (10.5-73.5 ppm THPS) weekly or as needed to maintain control. When added to a flowing system, slug dose for 2-6 hours based on flow rates.

Continuous Treatment: TOLCIDE® PS20A can be dosed continuously at a level of 52.5-250 ppm (10.5-50 ppm THPS).

Oil and Gas Production and Transmission Pipelines and Systems

TOLCIDE® PS20A should be added at a point in the pipeline where uniform mixing will occur. The application should be conducted to ensure maximum distribution of TOLCIDE® PS20A through the entire internal surface of the pipeline by adding an amount of biocide which eventually comes out the other end of the pipeline. **ACCURATED** success of the treatment will be reduction in bacterial count and/or corrosion rates.

Slug Dosing: Follow instructions for water flood treatment.

Continuous Dosing: TOLCIDE® PS20A can be dosed continuously at a level of 52.5-376 ppm (10.5-75 ppm THPS).

Drilling Muds, Packer Fluids, Completion and Workover Fluids

TOLCIDE® PS20A should be added to these fluids at a point where uniform mixing will occur. Add 52.5-5250 ppm of TOLCIDE® PS20A (24.5-1050 ppm THPS) to a freshly prepared fluid depending on severity of contamination.

Gas Storage Well and Systems

Individual injection wells should be treated with TOLCIDE® PS20A at the same application rates, and in the same manner as described under Water Floods. Injections should be repeated as needed to maintain control. Individual drips should be treated with a sufficient quantity of TOLCIDE® PS20A to produce a concentration of 125-500 ppm TOLCIDE® PS20A (25-100 ppm THPS) when diluted by the water present in the drip. Injections should be repeated as needed to maintain control.

Well Remediation Operations

Individual production or injection wells may be bullheaded with TOLCIDE® PS20A to control bacteria and simultaneously dissolve iron sulfide deposits. The TOLCIDE® PS20A will be pumped into the well as a solution in water containing from 50 to 100% TOLCIDE® PS20A (10 - 20% THPS). The well is shut-in for a period of time (at least 6 hours) then put back into operation.

ACCURATED
with COMMENTS
EPA Letter Dated:
JUL 2 2007

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

4564-18

Hydrotesting

Water used to hydrotest pipelines or vessels should contain 250-2500 ppm TOLCIDE® PS20A (50-500 ppm THPS), depending on water quality and length of time the equipment will remain idle.

Pipeline Pigging And Scraping Operation

Add TOLCIDE® PS20A to a slug of water immediately following the scraper (ideally this water volume can be kept to a minimum and contained between the scraper and a trailing pig). Sufficient TOLCIDE® PS20A should be added to produce a concentration of 0.025% to 0.25% (50-500 ppm THPS) in the water at the discharge point or pig trap, depending on the length of the pipeline and the severity of biofouling.

TOLCIDE ® is a registered trademark of Rhodia UK Limited.

XX-0107

NET CONTENTS: As Marked on Container

ACCEPTED
with COMMENTS
EPA Letter Dated:

JUL 2 2007

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

4564-18