



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Antimicrobials Division (7510P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

4564-25

Date of Issuance:

1/2/18

NOTICE OF PESTICIDE:

☒ Registration  
☐ Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Tolcide TP5W

Name and Address of Registrant (include ZIP Code):

Joseph Haupt  
Solvay USA Inc.  
504 Carnegie Center  
Princeton, NJ 08504

**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 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 section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Eric Miederhoff, Product Manager 31  
Regulatory Management Branch I  
Antimicrobials Division (7510P)  
Office of Pesticide Programs

Date:

1/2/18

2. *Include this text if there is a DCI or EDSP Order; otherwise, delete this section.* You are required to comply with the data requirements described in the DCI or EDSP Order identified below:

- a. Tributyl tetradecyl phosphonium chloride GDCl-128824-1317

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI or EDSP Order listed above, you may contact the Reevaluation Team Leader (Team 36): <http://www2.epa.gov/pesticide-contacts/contacts-office-pesticide-programs-antimicrobial-division>

3. Be aware that proposed data requirements have been identified in a Work Plan or proposed DCI. For more information on these proposed data requirements, you may contact the Reevaluation Team Leader (Team 36): <http://www2.epa.gov/pesticide-contacts/contacts-office-pesticide-programs-antimicrobial-division>
4. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.
5. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 4564-25.”
6. Submit one copy of the final printed label for the record before you release the product for shipment.

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.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 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. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 08/07/2017

The alternate brand name “[Plexcide P5](#),” has been added to the product record.

If you have any questions, please contact Karen M. Leavy by phone at (703)-308-6237, or via email at [Leavy.Karen@epa.gov](mailto:Leavy.Karen@epa.gov).

Enclosure

# TOLCIDE® TP5W [Plexcide P5]

For use as an algicide, bactericide, fungicide, for the control of algae, slime forming bacteria, sulfate reducing bacteria, and fungi in air-washers and industrial air scrubbing systems, recirculating cooling water and process water systems including cooling towers, evaporative coolers, brewery pasteurizers, can warmers, and hydrostatic sterilizers and retorts, non-food contact paper and paperboard process water (e.g.: brown paper, corrugated sheet, Kraft paper, newsprint, etc.), and enhanced oil recovery systems, oil and gas production and transmission pipelines and systems, gas storage wells and systems, hydrotesting of pipelines and tanks, pipeline pigging and scraping operations, and oil and gas well drilling and maintenance fluids.

FOR INDUSTRIAL APPLICATIONS. This product must be loaded and transferred only using a metering-pump system. Open pouring is prohibited.

ACTIVE INGREDIENT: Tributyl Tetradecyl Phosphonium Chloride..... 5.0%  
OTHER INGREDIENTS ..... 95.0%  
TOTAL: ..... 100.0%

**ACCEPTED**

01/02/2018

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 4564-25

*This product contains Methanol. Methanol may cause blindness.*

**DANGER - POISON – PELIGRO**

**KEEP OUT OF REACH OF CHILDREN**



## FIRST AID

<b>If in Eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If Swallowed</b>	<ul style="list-style-type: none"><li>• Call poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>If on Skin or Clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If Inhaled</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>

## HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency call CHEMTREC at 1-800-424-9300.

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage. Treat symptomatically. Eye and skin contact symptoms include serious burns, redness, pain, and corrosion. Toxic effects from repeated over exposure to methanol have an accumulative affect the central nervous system, especially the optic nerve. These symptoms may linger for several days after exposure. Methanol can seriously impair vision and may cause blindness. Metabolic acidosis in methanol poisoning may necessitate the administration of bicarbonate, which potentially may reverse visual deficits and may help to decrease the amount of active formic acid. Methanol intoxication can be treated by the administration of ethanol. Consultation with an ophthalmologist is recommended for assessment of ocular damage.

Manufactured by:  
Solvay USA Inc.  
504 Carnegie Center  
Princeton, NJ 08540

EPA REG. 4564-25  
EPA EST. xxxxxxxxxxxx

NET WEIGHT: ## lbs (##kg)

{MASTER LABEL}

{All text in brackets [xxx] is optional & may or may not be included on a printed label.}

{All text in braces {xxx} is administrative & will not appear on a printed label.}

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER. CORROSIVE.** Causes irreversible eye damage and skin burns. Fatal if swallowed, absorbed through skin, or inhaled. Do not get in eyes, on skin, or on clothing. Do not breathe spray mist. Wear protective eyewear such as goggles, face shield, or safety glasses. Wear coveralls worn over long-sleeved shirt and long pants, socks, chemical-resistant boots, waterproof gloves (Barrier Laminate, or Butyl Rubber, or Nitrile Rubber, or Neoprene Rubber, or Polyvinyl Chloride (PVC), or Viton, selection Category C). Wear a NIOSH-approved particulate filter with an N, R, P filter with NIOSH approval number prefix TC-84A; or a NIOSH-approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

**PHYSICAL OR CHEMICAL HAZARDS:** Combustible. Do not use or store near heat or open flame. Do not mix with other chemicals. Mix only with water.

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to fish and aquatic organisms. 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.** Read entire label and use strictly in accordance with precautionary statements and directions.

This product must be loaded and transferred only using a metering-pump system or a closed loading/application system. Open pouring is prohibited.

### RECIRCULATING COOLING AND PROCESS WATER SYSTEMS / AIR WASHERS AND INDUSTRIAL AIR SCRUBBING SYSTEMS:

When used as directed, this product effectively controls algal, bacterial, and fungal slimes in commercial and industrial cooling towers, evaporative condensers, heat exchange water systems, evaporative coolers, dairy sweetwater systems, industrial process water systems, brewery pasteurizers, can warmers, hydrostatic sterilizers and retorts, air washing systems equipped with a mist eliminator, and industrial air scrubbing systems. Add this product at a point of uniform mixing such as the basin area.

#### DOSAGE RATES:

Initial Dose: When the system is noticeably fouled, add 26 to 77 fluid ounces of product per 1000 gallons (200 to 600 milliliters/1000 liters) of water contained in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 13 to 38 fluid ounces of product per 1000 gallons (100 to 300 milliliters/1000 liters) of water contained in the system. Repeat as needed to maintain control.

Heavily fouled systems must be cleaned before treatment is begun.

[DAIRY SWEETWATER SYSTEM APPLICATIONS ARE NOT REGISTERED FOR USE IN CALIFORNIA]

[BREWERY PASTEURIZERS, CAN WARMERS, HYDROSTATIC STABILIZERS OR RETORTS ARE NOT REGISTERED FOR USE IN CALIFORNIA]

[AIR-WASHER OR AIR SCRUBBER SYSTEM APPLICATIONS ARE NOT REGISTERED FOR USE IN CALIFORNIA]

## **PULP, PAPER, AND PAPERBOARD MILLS:**

THIS PRODUCT IS ONLY FOR USE IN NON-FOOD APPLICATION, such as brown paper mills, sheet for corrugated board, Kraft paper, newsprint and similar paper / paperboard not intended for food contact uses. When used as directed this product effectively controls bacterial and fungal slimes in pulp, paper, and paperboard mill process water systems including white water systems. Treat water at critical areas in the system where mixing of the product will be uniform such as beaters, furnish chest, white-water tank, save-all, and broke chest. The frequency and duration of the treatment will depend upon the severity of the problem.

### **DOSAGE RATES**

Initial Dose: When the system is noticeably fouled, add 5 to 30 pounds of this product per ton of pulp or paper (dry basis) as a slug dose. Repeat until control is achieved. Heavily fouled systems must be cleaned before initial treatment.

Subsequent Dose: When biological control is evident, add 3 to 20 pounds of product per ton of pulp or paper (dry basis) as a slug dose as necessary to maintain control.

## **ENHANCED OIL RECOVERY SYSTEMS:**

**NOT FOR USE IN ESTUARINE OR MARINE OIL RECOVERY SYSTEMS.** When used as directed this product effectively controls slime-forming and sulfate-reducing bacteria in injection and produced water systems, water disposal systems, and other oilfield water systems. Treat water at critical points in the system such as water or oil storage tanks, surge tanks, oil-water separators, before or after injection pumps, and injection well headers.

### **DOSAGE RATES**

When the system is noticeably fouled, or to maintain control in the system, add 42 to 420 gallons of this product per 1000 barrels of water as a slug dose for 1-8 hours per day, 1-4 times per week.

## **OIL AND GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS:**

This product should be added at a point in the pipeline where uniform mixing will occur. The application should be conducted to ensure maximum distribution of product through the entire internal surface of the pipeline. Follow dosing instructions for enhanced oil recovery systems.

## **GAS STORAGE WELLS AND SYSTEMS:**

Individual injection wells should be treated with a sufficient quantity of product to produce a concentration of 100-10,000 ppm of this product when diluted by the water present in the formation. Injections should be repeated as needed to maintain control.

Individual drips should be treated with sufficient quantity of this product to produce a concentration of 100-10,000 ppm of this product when diluted by the water present in the drips. Injections should be repeated as needed to maintain control.

## **HYDROTESTING:**

Water used to hydrotest pipelines or vessels should contain 100-10,000 ppm of product, depending on water quality and length of time the equipment will remain idle.

## **PIPELINE PIGGING AND SCRAPING OPERATIONS:**

Add this product 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 product should be added to produce a concentration of 100-10,000 ppm of this product in the water at the discharge point or pig trap depending on the length of the pipeline and the severity of biofouling.

## **DRILLING, PACKER, COMPLETION, WORKOVER AND FRACTURING FLUIDS:**

This product should be added to these fluids at a point where uniform mixing will occur. Add 100-10,000 ppm of this product to a freshly prepared fluid depending on the severity of contamination.

## **FIRE PROTECTION SYSTEMS:**

This product is effective at controlling microbial growth in waters and on pipe surfaces in fire protection systems. This product must be added to a fire protection system using a chemical metering pump capable of variable pump rates. The product must be injected at a point, such as a riser, manifold or makeup feed water line, where uniform mixing and distribution will occur. Add 100-600 ppm of product (5-30 ppm active ingredient) depending on severity of microbial contamination in the system. Repeat as needed.

[FIRE PROTECTION SYSTEMS ARE NOT REGISTERED FOR USE IN CALIFORNIA.]

## **STORAGE AND DISPOSAL:**

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

**PESTICIDE STORAGE:** Keep product dry and store in a cool, dry, well-ventilated area away from heat or open flame. Store in original 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 label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

*{Text for non-refillable containers}*

**CONTAINER DISPOSAL:** Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. *{For containers of 5 gallons or less}* [Triple rinse as follows: Empty the remaining contents into application equipment or a 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.] *{For containers with capacities of greater than 5 gallons}* [Triple rinse as follows: Empty the remaining contents into application equipment or a 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 the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

*{Text for refillable containers}*

**CONTAINER DISPOSAL:** Refillable container. Refill this container with Tributyl tetradecyl phosphonium chloride only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

## **WARRANTY**

Seller warrants that the product conforms to its chemical description and when used according to label directions under normal conditions of use, it is reasonably fit for the purpose stated on the label. To the extent consistent with applicable law, seller makes no other warranty, either expressed or implied, and buyer assumes all risk should the product be used contrary to label instructions.