

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

**DANGER. CORROSIVE.** Causes irreversible eye damage and skin burns. Harmful if swallowed or absorbed through skin. May be irritating to nose and throat. Do not get in eye, on skin or on clothing. Wear coveralls worn over long-sleeved shirt and long pants, socks, chemical-resistant footwear, chemical resistant gloves, and protective eyewear (goggles or face mask). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

**PHYSICAL OR CHEMICAL HAZARDS**

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. Wear coveralls worn over long-sleeved shirt and long pants, socks, chemical resistant footwear, chemical resistant gloves and protective eyewear (goggles or face mask).

**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.

**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 heaters, 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 production 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, oilwater 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.

(Directions for use continued on side panel.)

# BIO-TROL TP5

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.....

**OTHER INGREDIENTS:** .....

**TOTAL:**.....

95.0%  
100.0%

EPA Reg No.: 102007-2-43553

**KEEP OUT OF REACH OF CHILDREN  
DANGER  
FIRST AID**

<b>If in eyes:</b>	Hold eye open and slowly and gently rinse with water for 15-20 minutes. Remove contact lenses, if these are after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
<b>If on skin:</b>	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.
<b>If inhaled:</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
<b>If swallowed:</b>	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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.
<b>HOT LINE NUMBER</b>	
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.	
<b>Note to physician:</b> Probable mucosal damage may contraindicate the use of gastric lavage.	

**Manufactured for:**  
CH<sub>2</sub>O, Inc.

8820 Old Hwy. 99 SE /

Tumwater, WA 98501

**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.*

**DIRECTIONS FOR USE (continued)**

**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 in service.

**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 discharge depending on the length of the pipeline and the severity of biofouling.

**DISINFECTION, 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 100-500 ppm of product (5-30 ppm active ingredient) depending on severity of microbial contamination in the system. Repeat as needed.

**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.

**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 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 1/4 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 1/4 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.

**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.