TOLCIDÉ® PS75LT
INDUSTRIAL ANTIMICROBIAL

ACTIVE INGREDIENT:
Tetrakis(hydroxymethyl) phosphonium sulfate ......................................................... 75%
OTHER INGREDIENTS: .................................................................................. 25%
TOTAL: ........................................................................................................ 100%

EPA Reg. No. 33677-7  EPA Est. 80347-TX-1

KEEP OUT OF REACH OF CHILDREN

DANGER

FIRST AID

If in eyes:
• 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:
• Call a poison control center or doctor immediately for treatment advice.
• Have a 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:
• 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:
• 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.

See Side Panels for Additional Precautionary Statements
In case of emergency, call CHEMTREC at 1-800-424-9300

Manufactured for:

RHODIA UK LIMITED.
Trinity Street • Oldbury
West Midlands • United Kingdom B69 4WD

Active ingredient produced in United Kingdom and/or China

NET CONTENTS: As Marked on Container

TOLCIDÉ® is a registered trademark of Rhodia UK Limited

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. Harmful or fatal if swallowed. Avoid contamination of food. Remove contaminated clothing and wash before reuse.

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.

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 HANDLING AND DISPOSAL: Nonrefillable container [greater than 5 gallons]. Do not reuse or refill this container. Offer for recycling or reconditioning if appropriate. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. 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. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal.

CONTAINER HANDLING AND DISPOSAL: refillable container. Refill this container with THPS only. Do not reuse this container for any other purpose. Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. Pressure rinse the container for final disposal as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.
DIRECTIONS FOR USE

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

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

Initial Slug Dose: Add 93.33-350 ppm of TOCLED® P85LT (70-262.5 ppm THPs) based on total water volume. Repeat until control is obtained. Thereafter, add either intermittently 35-140 ppm of TOCLED® P85LT (26-105 ppm THPs) or continuously 18.85-63.3 ppm of TOCLED® P85LT (14.49 ppm THPs) per day. DRY systems must be cleaned prior to treatment.

HEAT TRANSFER SYSTEMS (Evaporative Condensers, Dairy Sweetwater Systems, Hydrostatic Sterilizers and Rotors, Brewery and Other Pasteurizers, and Warms) [Not for use in California]

Add TOCLED® P85LT at the application rate, 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

TOCLED® P85LT 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.

INDUSTRIAL FRESH WATER SYSTEMS [Not for use in California]

TOCLED® P85LT 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, tissue mills, and other manufacturing plants. In pulp and paper mills, treatment of the fresh water with TOCLED® P85LT can make an important contribution to slime control. The use of TOCLED® P85LT 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. If water is used in the manufacture of paper and paperboard products that may contact food, the concentration of THPs in the slurry cannot exceed 0.4 ppm. For the control of algae in industrial fresh water systems, TOCLED® P85LT should be added to provide a concentration of 1.33-13.33 ppm of product (1-10 ppm of THPs). Treatment should be based on the amount of water entering a pond or reservoir and on the point or reservoir and on 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)

TOCLED® P85LT should be added to a wastewater system or sludge at a convenient point of uniform mixing such as a digester. Add 333.33-1066.66 ppm of TOCLED® P85LT (250-120 ppm THPs) per 1,000 gallons of wastewater or sludge.

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

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

Not for Use in California

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.

Intermediate Dosing: Add 32.56-60.55 ppm of TOCLED® P85LT (25-35 ppm THPs) based on total water volume or an equivalent based on dry weight of paper produced.

Continuous Dosing: Add 18.85-63.3 ppm of TOCLED® P85LT (14.49 ppm THPs) based on total water volume or an equivalent based on dry weight of paper produced.

b) For use as a submarine in the manufacture of paper and paperboard products that may contact food.

Not for Use in California

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.

Intermediate Dosing: Add 32.56-60.55 ppm of TOCLED® P85LT (25-35 ppm THPs) based on total water volume or an equivalent based on dry weight of paper produced. The maximum use concentration of THPs in the slurry cannot exceed 0.4 ppm.

Continuous Dosing: Add 18.85-63.3 ppm of TOCLED® P85LT (14.49 ppm THPs) based on total water volume or an equivalent based on dry weight of paper produced. The maximum use concentration of THPs in the slurry cannot exceed 0.4 ppm.

c) For use as a preservative for Acid Ketone Dimer (AKD) Emulsions. [Not for Use in California]

This product can be used to prevent bacterial and fungal contamination of AKD emulsions that are applied to kraft-paper and paperboard at the dry end of the paper machine.

Dosing: Apply 23.33-66.66 ppm of TOCLED® P85LT (175-497 ppm THPs) to the AKD emulsion to be preserved.

d) 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. [Not for Use in California]

The treatment 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 23.33-66.66 ppm of TOCLED® P85LT (175-500 ppm THPs) to the additive to be preserved based on the total weight of the additive and water.

MACROFOULING CONTROL [Not for Use in California]

TOCLED® P85LT 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 20.05 ppm of TOCLED® P85LT (20 ppm THPs) based on total water volume. Continue to add TOCLED® P85LT as needed to maintain the 20 ppm active ingredient (THPs) level for a period of at least 96 hours.

FIRE PROTECTION SYSTEMS

TOCLED® P85LT is effective at controlling microbial growth in waters and on pipe surfaces in fire protection systems. Such microbial growth when contained with other forms of corrosion can lead to accelerated corrosion rates and plugging corrosion, commonly referred to as microbiologically influenced corrosion. TOCLED® P85LT also removes free oxygen from the water, thus eliminating an important nutrient for bacteria and an important reactant in many corrosion reactions.

TOCLED® P85LT should be added to a fire protection system using a chemical metering pump capable of variable purge rates. The TOCLED® P85LT should be injected at a point, such as a riser, manifold, or make-up feed water line, where uniform mixing and dosing occur. Add 100-400 ppm TOCLED® P85LT, depending on severity of microbial contamination in the system. Repeat as needed.

SOLUTIONS & EMULSIONS [Not for Use in California]

Not for use in manufacture of paper and paperboard products and adhesives that may come in contact with food. For the preservation of sawmill emulsions, adhesives and other aqueous liquid products, the addition of 0.020% to 0.030% of TOCLED® P85LT is effective. Add at a point in the processing system where there will be sufficient time and aeration for good mixing and dispersion. The exact amount of TOCLED® P85LT 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

TOCLED® P85LT 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. TOCLED® P85LT has been shown to dissolve iron sulfide and iron metal when used under these conditions, leading to improved fiber life and well integrity, and reduction of hydrocarbon flow. TOCLED® P85LT is also effective for use in controlling microbial growth in fluids used for drilling and stimulation of oil wells.

Water Floods

TOCLED® P85LT should be added to a water flood system at a point where uniform mixing will occur.

Initial Treatment: For a irreversibly fouled system, add 93-350 ppm TOCLED® P85LT. When added to a flooding 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 14.9 ppm TOCLED® P85LT weekly or as needed to maintain control. When added to a flooding system, slug dose for 2-6 hours based on flow rates.

Continuous Treatment: TOCLED® P85LT can be dosed continuously at a level of 14.67 ppm.

Oil and Gas Production and Transmission Pipelines and Systems

TOCLED® P85LT should be added at a point in the pipeline where uniform mixing will occur. The application should be conducted to ensure maximum dilution of TOCLED® P85LT throughout the entire internal surface of the pipeline by adding an amount of biocide which eventually comes out the other end of the pipeline. Criteria for success of the treatment will be reduction in bacterial count and/or corrosion rates.


Continuous Dosing: TOCLED® P85LT can be dosed continuously at a level of 14.67 ppm.

Drilling Mud, Packer Fluids, Completion and Workover Fluids

TOCLED® P85LT should be added to these fluids at a point where uniform mixing will occur. Add 33-1400 ppm of TOCLED® P85LT to a healthy preflush fluid depending on severity of contamination.

Gas Storage Wells and Systems [Not for Use in California]

Individual injection wells should be treated with TOCLED® P85LT 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 wells should be treated with a sufficient quantity of TOCLED® P85LT to produce a concentration of 33.3-123.3 ppm TOCLED® P85LT (25-100 ppm THPs) when diluted by the water present in the dip. Injections should be repeated as needed to maintain control.

Well Remediation Operations [Not for Use in California]

Individual wells should be treated with TOCLED® P85LT to control bacteria and simultaneously dissolve iron sulfide deposits. The TOCLED® P85LT will be pumped into the well as a solution in water containing from 13.33 to 40 ppm of TOCLED® P85LT (10-30% THPs). The well is flushed for a period of time (at least 6 hours) then put back into operation.

Hydrotesting

Water used to hydrotest pipelines or vessels should contain 56.6-666.5 ppm TOCLED® P85LT (50-500 ppm THPs), depending on water quality and length of time the equipment will remain idle.

Pipeline Pigging and Scraping Operation

Add TOCLED® P85LT to a slug of water immediately following the scraper (ideally this water volume can be kept to a minimum and added between the scraper and pig). Sufficient TOCLED® P85LT should be added to produce a concentration of 0.07% to 0.09% (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 the biofouling.