ACTIVE INGREDIENT:
Tetradecyl(hydroxyethyl) phosphonium sulfate..............................................50%
OTHER INGREDIENTS:........................................................................50%
TOTAL:.........................................................................................100%

EPA Reg. No. 4564-17 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 INC.
8 Cedar Brook Drive
Cranbury, NJ 08512-7500 • 609-860-4000

Active ingredient produced in United Kingdom and/or China

NET CONTENTS: As Marked on Container

TOLCID® is a registered trademark of Rhodia UK Limited

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS
DANGER: Corrosive. Causes irreversible 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 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 rinseate 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 Authority, 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 ¾ 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 rinseate into application equipment or a mix tank or store rinseate for later use or disposal. Repeat this procedure two more times. Pressure rinse 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 rinseate 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.

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 rinseate 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.

3/23/10
DIRECTIONS FOR USE
It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

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 COnfIguration COOLING WATER SYSTEMS (for control of bacteria, fungi and algae)
Initial Slug Dose: Add 140-525 ppm of TOLCIDE® PSS0A (70-262.5 ppm THPS) based on total water volume. Repeat until control is obtained. Thereafter, add either Intermittently 52-210 ppm of TOLCIDE® PSS0A (26-105 ppm THPS) or Continuously 728-988 ppm of TOLCIDE® PSS0A (14-45 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® PSS0A 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® PSS0A 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 (Not for use in California)
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 on for two hours. Filter and check nozzles, manually cleaning as necessary. Add 52-140 ppm of TOLCIDE® PSS0A (26-70 ppm THPS) at a point where uniform mixing and even distribution will occur. Repeat as necessary to maintain control.

INDUSTRIAL FRESH WATER SYSTEMS (Not for Use in California)
Do not use in freshwater used in the manufacture of paper and paperboard products that may contact food. TOLCIDE® PSS0A 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 large industrial processing plants. In pulp and paper mills, treatment of the fresh water with TOLCIDE® PSS0A can make an important contribution to slime control. The use of TOLCIDE® PSS0A as described will reduce the accumulation of slime in fresh water pipes and other equipment, and on the pulp and paper mill machinery parts contacted by fresh water.

For the control of algae in industrial fresh water systems, TOLCIDE® PSS0A should be added to provide a concentration of 2-20 ppm of product (1-10 ppm of 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) (Not for Use in California)
TOLCIDE® PSS0A should be added to a wastewater system or sludge at a convenient point of uniform mixing such as digester. Add 500-2500 ppm of TOLCIDE® PSS0A (250-1250 ppm THPS) per 1,000 gallons of wastewater or sludge.

PAPER MANUFACTURING (for control of bacteria, fungi and algae)
a) For use as a slimecide 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 steamically or continuously depending on mill conditions.
Intermittent Dosing: Add 49-700 ppm of TOLCIDE® PSS0A (24.5-350 ppm THPS) based on total water volume or an equivalent based on dry weight of paper produced.
Continuous Dosing: Add 28-98 ppm of TOLCIDE® PSS0A (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. [Not for Use in New York State and California]
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 350-1000 ppm of TOLCIDE® PSS0A (175-500 ppm THPS) to the additive to be preserved based on the total weight of the additive and water.

MACRO FouLING CONTROL (Not for Use in California)
TOLCIDE® PSS0A 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 40 ppm of TOLCIDE® PSS0A (20 ppm THPS) based on total water volume. Continue to add TOLCIDE® PSS0A as needed to maintain the 20 ppm active ingredient (THPS) level for a period of at least 96 hours.

FIRE PROTECTION SYSTEMS
TOLCIDE® PSS0A 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® PSS0A also helps to remove free oxygen from the water, thus eliminating an important nutrient for bacteria and an important reactant in many corrosion reactions.
TOLCIDE® PSS0A should be added to a fire protection system using a chemical metering pump capable of variable pump rates. The TOLCIDE® PSS0A should be injected at a point, such as a riser, manifold or makeup feed water line, where uniform mixing and distribution will occur. Add 150-600 ppm TOLCIDE® PSS0A (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 0.03% to 0.35% of TOLCIDE® PSS0A (0.017% to 0.17% THPS) is effective. Add a point in the processing system where there will be sufficient time and agitation for good mixing and dispersion. The exact amount of TOLCIDE® PSS0A 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® PSS0A is effective in controlling sulfide 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, recrystallizing water handling systems, and pipelines. TOLCIDE® PSS0A 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 sh aw. TOLCIDE® PSS0A is also effective for use in controlling microbial growth in fluids used for drilling and stimulation of oil wells.

Water Floods
TOLCIDE® PSS0A should be added to a water flood system at a point where uniform mixing will occur.
Initial Treatment: For a noticeably fouled system, add 140-525 ppm TOLCIDE® PSS0A (70-262.5 ppm THPS). When added to a flowing system, slug dose for 2-4 hours based on flow rates. Repeat as necessary until control is achieved.
Subsequent Treatment: Once control has been achieved, add 21-147 ppm TOLCIDE® PSS0A (10.5-73.5 ppm THPS) weekly or as needed to maintain control. When adding to a flowing system, slug dose for 2-4 hours based on flow rates.
Continuous Treatment: TOLCIDE® PSS0A can be dosed continuously at a level of 21-100 ppm (10.5-50 ppm THPS).

Oil and Gas Production and Transmission Pipelines and Systems
TOLCIDE® PSS0A should be added to the pipeline where uniform mixing will occur. The application should be conducted to ensure maximum distribution of TOLCIDE® PSS0A through 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: TOLCIDE® PSS0A can be dosed continuously at a level of 21-150 ppm (10.5-75 ppm THPS).

Drilling Muds, Frac Pack Fluids, Completion and Workover Fluids
TOLCIDE® PSS0A should be added to these fluids at a point where uniform mixing will occur. Add 49-2100 ppm of TOLCIDE® PSS0A (24.5-1050 ppm THPS) to a freshly prepared fluid depending on severity of contamination.

Gas Storage Well and Systems (Not for Use in California)
Individual injection wells should be treated with TOLCIDE® PSS0A 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 strips should be treated with a sufficient quantity of TOLCIDE® PSS0A to produce a concentration of 50-200 ppm TOLCIDE® PSS0A (25-100 ppm THPS) when diluted by the water present in the strip. Injections should be repeated as needed to maintain control.

Hydrotesting
Water used to hydrotest pipelines or vessels should contain 100-1000 ppm TOLCIDE® PSS0A (50-500 ppm THPS), depending on water quality and length of time the equipment will remain idle.

Pipeline Pigging and Scraping Operation
Add TOLCIDE® PSS0A 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® PSS0A should be added to produce a concentration of 0.01% to 0.1% (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.