

ACCOUNT #  
 1001 1982  
 5185-343

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

**DANGER:** Highly corrosive. Causes skin and eye damage. May be fatal if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Irritating to nose and throat. Avoid breathing dust. Remove and wash contaminated clothing before reuse.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Do not discharge into lakes, streams, ponds, or public waters unless in accordance with an NPDES Permit. For guidance contact the regional office of EPA.

**PHYSICAL AND CHEMICAL HAZARDS STRONG OXIDIZING AGENT:** Mix only with water. Use clean dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to a fire or explosion. Contamination with moisture, organic matter, or other chemicals may start a chemical reaction, with generation of heat, liberation of hazardous gases, and possible generation of fire and explosion. In case of contamination or decomposition, do not reseal container. If possible isolate container in open air or well ventilated area. Flood with large volumes of water, if necessary.

**DIRECTIONS FOR USE**

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

When used as directed, this product is effective as a cooling tower algicide, slimicide, and bactericide.

Severely fouled towers should be cleaned prior to treatment for best and most rapid results. Lightly fouled systems may be treated without pre-cleaning.

Chlorination requirements vary with percent of time tower is in use, type of tower, air and water temperatures, and contamination in and entering into the water. For these reasons, precise directions cannot be given. The operator will require some experience with treating the tower to establish the optimum treatment schedule and the amounts of Tower-Sticks required.

**BioGuard  
 TOWER STICKS  
 CHLORINATING STICKS**

Chlorinating Sticks - For use in the control of algae and slime in recirculating cooling towers.

<b>ACTIVE INGREDIENTS:</b>	
Trichloro-s-triazinetrione .....	99.0%
(available chlorine 90%)	
<b>INERT INGREDIENTS:</b> .....	1.0%
	<u>100.0%</u>

**For Industrial, Commercial, and  
 Agricultural Use Only**

**KEEP OUT OF REACH OF CHILDREN  
 DANGER**

(See additional precautions on side panel)

**PRACTICAL TREATMENT (FIRST AID):** If swallowed, feed bread soaked in milk followed by olive oil or cooking oil. Call a physician immediately.

If on skin: Brush off excess chemical and flush skin with cold water for at least 15 minutes. If irritation persists, get medical attention.

If in Eyes: Flush with cold water for at least 15 minutes. Get medical attention.

**A PRODUCT OF  
 BIO-LAB, INC., Decatur, Georgia 30031  
 EPA Reg. No. 5185-343  
 EPA Est. No. 5185-GA-2** NET CONTENTS: 50 lbs.

**Application Methods:** Tower-Sticks may be applied to a tower by use of a suitable erosion chlorinator with an adjustable flow control or by suspending a dissolving basket in the sump. Chlorination levels are controlled by changing the rate of water flow through the erosion chlorinator or by increasing or decreasing the number of Tower-Sticks Chlorinating Sticks placed in the dissolving basket. During periods when no chlorine is wanted, the water flow through the erosion chlorinator is stopped. The basket is simply removed and suspended above the water in the sump. Use a DPD free chlorine test kit to measure available chlorine concentrations in the water.

**Initial Treatment:** Place in the chlorinator, dissolving basket or sump, 1 oz. of Tower-Sticks for each 1,000 gallons of water in the system. Sticks should be placed in an area of constant water flow. Open flow control on erosion chlorinator to maximum until a 1.0 ppm chlorine residual is obtained. Adjust flow or add sticks to maintain chlorine at 1-2 ppm until fouling is gone.

**Continuous Treatment:** Adjust flow through erosion chlorinator to maintain available chlorine reading at 0.5 to 1.0 ppm or keep the proper number of sticks in the dissolving basket or sump to maintain a 0.5 to 1.0 ppm available chlorine reading.

**Intermittent Treatment:** This is most easily done with an erosion chlorinator. One to three times daily, establish a 1.0 ppm available chlorine reading in the recirculating water and maintain that level of available chlorine for one hour.

Quaternary ammonium biocides will often complement the action of this product as they tend to disperse slime masses, which available chlorine can then penetrate and kill. A quaternary biocide slug fed into a tower on an occasional basis will help prevent the development of resistant organisms and will tend to keep surfaces cleaner.

Optimum performance with this product will be obtained if the recirculatory water pH is maintained between pH 7.4 and 7.8 during the treatment.

**STORAGE AND DISPOSAL:** Keep product dry in tightly closed container when not in use. Store in a cool dry, well ventilated area away from heat or open flame. In case of decomposition, isolate container, if possible, and flood with large amounts of water to dissolve all material before discarding. Rinse empty container well and place in trash collection or dispose in approved landfill area, or bury in a safe place.

ACCEPTED  
 JUL 11 1982  
 5185-343

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

Highly corrosive. Causes skin and eye damage. May be fatal if swallowed. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Irritating to nose and throat. Avoid breathing dust. Wash and wash contaminated clothing before reuse.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish. Do not discharge into lakes, streams, ponds, or public waters unless in accordance with an NPDES Permit. For guidance contact regional office of EPA.

**PHYSICAL AND CHEMICAL HAZARDS STRONG OXIDIZING**  
 Do not mix with water. Use clean dry utensils. Do not mix product to any dispensing device containing remnants of other product. Such use may cause a violent reaction leading to a fire or explosion. Contamination with moisture, organic matter, or other chemicals may start a chemical reaction with generation of heat, liberation of hazardous gases, possible generation of fire and explosion. In case of fire, isolation or decomposition, do not reseal container. If possible isolate container in open air or well ventilated area. Use with large volumes of water, if necessary.

**DIRECTIONS FOR USE**

In accordance with Federal law to use this product in a manner consistent with its labeling.

When used as directed, this product is effective as a cooling tower biocide, slimeicide, and bactericide.

Contaminated towers should be cleaned prior to treatment for most rapid results. Lightly fouled systems may be treated without pre-cleaning.

Application requirements vary with percent of time tower is in operation, type of tower, air and water temperatures, and location in and entering into the water. For these reasons, precise directions cannot be given. The operator will require some experience with treating the tower to establish optimum treatment schedule and the amounts of Tower-Sticks required.

**BioGuard  
 TOWER STICKS  
 CHLORINATING STICKS**

Chlorinating Sticks - For use in the control of algae and slime in recirculating cooling towers.

ACTIVE INGREDIENTS:

Trichloro-s-triazinetrione	99.0%
(available chlorine 90%)	
INERT INGREDIENTS:	1.0%
	100.0%

**For Industrial, Commercial, and  
 Agricultural Use Only**

**KEEP OUT OF REACH OF CHILDREN  
 DANGER**

(See additional precautions on side panel)

**PRACTICAL TREATMENT (FIRST AID):** If swallowed, feed bread soaked in milk followed by olive oil or cooking oil. Call a physician immediately.

If on skin: Brush off excess chemical and flush skin with cold water for at least 15 minutes. If irritation persists, get medical attention.

If in Eyes: Flush with cold water for at least 15 minutes. Get medical attention.

A PRODUCT OF  
**BIO-LAB, INC., Decatur, Georgia 30031**  
 EPA Reg. No. 5185-343  
 EPA Est. No. 5185-GA-2 NET CONTENTS: 50 lbs.

**Application Methods:** Tower-Sticks may be applied to a tower by use of a suitable erosion chlorinator with an adjustable flow control or by suspending a dissolving basket in the sump. Chlorination levels are controlled by changing the rate of water flow through the erosion chlorinator or by increasing or decreasing the number of Tower-Sticks Chlorinating Sticks placed in the dissolving basket. During periods when no chlorine is wanted, the water flow through the erosion chlorinator is stopped. The basket is simply removed and suspended above the water in the sump. Use a DPD free chlorine test kit to measure available chlorine concentrations in the water.

**Initial Treatment:** Place in the chlorinator, dissolving basket or sump, 1 oz. of Tower-Sticks for each 1,000 gallons of water in the system. Sticks should be placed in an area of constant water flow. Open flow control on erosion chlorinator to maximum until a 1.0 ppm chlorine residual is obtained. Adjust flow or add sticks to maintain chlorine at 1-2 ppm until fouling is gone.

**Continuous Treatment:** Adjust flow through erosion chlorinator to maintain available chlorine reading at 0.5 to 1.0 ppm or keep the proper number of sticks in the dissolving basket or sump to maintain a 0.5 to 1.0 ppm available chlorine reading.

**Intermittent Treatment:** This is most easily done with an erosion chlorinator. One to three times daily, establish a 1.0 ppm available chlorine reading in the recirculating water and maintain that level of available chlorine for one hour.

Quaternary ammonium biocides will often complement the action of this product as they tend to disperse slime masses, which available chlorine can then penetrate and kill. A quaternary biocide slug fed into a tower on an occasional basis will help prevent the development of resistant organisms and will tend to keep surfaces cleaner.

Optimum performance with this product will be obtained if the recirculatory water pH is maintained between pH 7.4 and 7.8 during the treatment.

**STORAGE AND DISPOSAL:** Keep product dry in tightly closed container when not in use. Store in a cool dry, well ventilated area away from heat or open flame. In case of decomposition, isolate container, if possible, and flood with large amounts of water to dissolve all material before discarding. Rinse empty container well and place in trash collection or dispose in approved landfill area, or bury in a safe place.