

42156-3

BEST DOCUMENT AVAILABLE

# WEST C-103 MICROBIOCIDES

## DIRECTIONS FOR USE GENERAL CLASSIFICATION

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

WEST C 103 is used to control algae, bacteria, and fungi in commercial and industrial water cooling towers. Towers to be treated must be cleaned to remove algal growth, microbiological deposits. An initial slug addition of 1.5 to 3.0 fluid ounces per 1000 gallons of water is recommended. Repeat slug additions if control is evident.

Subsequent slug additions of 0.5 to 3.0 fluid ounces of WEST C 103 per 1000 gallons of water should be employed every 1 to 5 days. The frequency of addition depends upon the relative amount and severity of the microbiological problem. Slug additions in the sump of water cooling towers.

## STORAGE AND DISPOSAL

**PROHIBITIONS:** Do not contaminate water, food, or feed. Open dumping is prohibited.

**PESTICIDE DISPOSAL:** Pesticide sprays, mixtures, or not be used or chemically reprocessed should be disposed of in accordance with local, state, or federal regulations. Do not use for purposes not approved for pesticides or buried in a safe place away from water.

**CONTAINER DISPOSAL:** Containers under 30 gallons capacity should not be reused but should be triple rinsed and disposed of in accordance with local, state, or federal regulations. Containers over 30-gallon capacity should be recycled and triple rinsed (or equivalent) and off-waste should be disposed of in an approved landfill, or buried.

**GENERAL:** Consult Federal, State, or Local disposal regulations for approved alternative procedures.

Manufactured by:

**WATER & ENERGY SYSTEMS TECHNOLOGIES**

139 West Victoria Street  
Gardena, CA 90248

EPA REG NO 42156-3

EPA E

<b>ACTIVE INGREDIENTS</b>		
Potassium cyanodithiocarbamate .....	14.7%	
Potassium N-methylthiocarbamate .....	20.3%	
<b>INERT INGREDIENTS</b> .....		65.0%
<b>TOTAL</b> .....		100.0%

This product contains 3.57 lbs. of active ingredients per gallon. Net weight 10.2 lbs. per gallon.

KEEP OUT OF REACH OF CHILDREN

### WARNING

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

**WARNING:** Causes eye damage and skin irritation. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful or fatal if swallowed. Avoid contamination of food.

**FIRST AID:** In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse. If swallowed, give patient doses of powdered charcoal immediately or all he can swallow of raw egg white, milk, gruel, or flour and water. Then induce vomiting with salt, soap, or mustard in warm water. Call a physician immediately.

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to fish. Do not discharge into lakes, streams, ponds, or public waters unless in accordance with an NPDES permit. For guidance contact your Regional Office of the EPA.

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DIRECTIONS FOR USE  
GENERAL CLASSIFICATION

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# WEST C-103 MICROBIOCIDES

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

WEST C-103 is used to control algae, bacteria, and fungi in recirculating commercial and industrial water cooling towers. Prior to its use, systems must be cleaned to remove algal growth, microbiological slimes, and other deposits. An initial slug addition of 1.5 to 3.0 fluid ounces of WEST C-103 per 1000 gallons of water is recommended. Repeat initial dosage until control is evident.

Subsequent slug additions of 0.5 to 3.0 fluid ounces of WEST C-103 per 1000 gallons of water should be employed every 1 to 5 days, or as needed. The frequency of addition depends upon the relative amount of biofilm and the severity of the microbiological problem. Slug additions should be made in the pump of water cooling towers.

### STORAGE AND DISPOSAL

**PROHIBITIONS:** Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

**PESTICIDE DISPOSAL:** Pesticide, spray mixture, or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.

**CONTAINER DISPOSAL:** Containers under 30 gallon capacity must not be reused but should be triple rinsed and disposed of in an incinerator or landfill approved for pesticide containers or buried in a safe place. Containers over 30 gallon capacity should be resealed and offered for reconditioning or triple rinsed (or equivalent) and offered for recycling, reconditioning, or disposal in an approved landfill, or buried in a safe place.

**GENERAL:** Consult Federal, State, or Local disposal authorities for approved alternative procedures.

Manufactured by  
**WATER & ENERGY SYSTEMS TECHNOLOGY, INC.**

138 West Victoria Street  
Gardena, CA 90248

EPA REG NO. 42136-3

EPA EST NO. 30832

19-A

<b>ACTIVE INGREDIENTS:</b>	
.....	14.7%
.....	20.3%
<b>INERT INGREDIENTS</b> ..... 65.0%	
<b>TOTAL</b> ..... 100.0%	

product contains 3.57 lbs. of active ingredients per 10.2 lbs. per gallon.

KEEP OUT OF REACH OF CHILDREN

### WARNING

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

**IRITANT:** Causes eye damage and skin irritation. Do not get in or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful or fatal if swallowed. Avoid contact with food.

**SKIN:** In case of contact, immediately flush eyes or skin with water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse. If swallowed, give 1 cup of powdered charcoal immediately or all he can swallow of 1% (one part to 100 parts) of water. Then induce vomiting by 1 cup of 1% solution in warm water. Call a physician immediately.

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to fish and aquatic life. Do not discharge into streams, ponds, or public waters unless in accordance with an NPDES permit. For guidance contact your Regional Office EPA.

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# BRONAM 5

FOR INDUSTRIAL  
MICROORGANISM CONTROL

**ACTIVE INGREDIENT:**

2,2-Dibromo-3-nitropropionamide ..... 5%  
INERT INGREDIENTS\* ..... 95%

\*Inert ingredients include solubilizing and dispersing agents.

EPA Reg. No. 1448-73  
EPA Est. No. 1448-TN-1  
Net Contents as Marked  
on Container

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

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

**DANGER:** Causes severe burns of eyes. May burn the skin. May be harmful or fatal if swallowed. Do not get in eyes, on skin, or on clothing. Wear chemical workers' goggles when handling. Do not inhale fumes or vapor. Wash thoroughly after handling.

**FIRST AID:** *In case of eye contact*, flush eyes immediately with plenty of water for at least 15 minutes and get medical attention. *In case of skin contact*, wash with soap and plenty of water. Wash contaminated clothing before reuse. *If product is swallowed*, call a physician immediately. If patient is conscious, induce vomiting by stroking or tickling the patient's throat or far back on patient's tongue. Emetics such as 2 teaspoonsful (10 ml) of ipecac syrup or 1 teaspoonful (5 ml) of dry mustard in warm water to form a paste or even soap in warm water can be used. Repeat until vomit fluid is clear. Then have patient drink plenty of milk, gelatin solution, beaten egg whites, flour and water, or other nonoily demulcent. *Never induce vomiting or give anything by mouth to an unconscious person.*

*Note to physician:* Probable mucosal damage may contraindicate gastric lavage.

**ENVIRONMENTAL HAZARDS:** Do not discharge into lakes, streams, ponds, or public waters unless in accordance with a NPDES permit. For guidance contact your Regional Office of the EPA. This product is toxic to fish. Do not contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

**STORAGE & DISPOSAL**

**PROHIBITIONS:** Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

**PESTICIDE DISPOSAL:** Pesticide, spray mixture, or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent) and dispose in an incinerator or landfill approved for pesticide containers, or bury in a safe place.

**GENERAL:** Consult Federal, State, or local disposal authorities for approved alternative procedures such as limited open burning.

**DIRECTIONS FOR USE**

**IT IS A VIOLATION OF FEDERAL LAW TO USE THIS MANNER INCONSISTENT WITH ITS LABELING.**

**NOTE:** BRONAM 5 must be added separately to systems. Do not mix it with other pH of many additive formulations will cause decomposition of BRONAM 5.

**COOLING WATER SYSTEMS:** BRONAM 5 is used in industrial recirculating water control fouling by algae and bacteria. The microbicide should be added to the metering pump, continuously or intermittently, depending on the severity of fouling and retention time in the system. If "shock" dosing is used, the blowdown should be made after treatment. Badly fouled systems must be cleaned before treatment is begun.

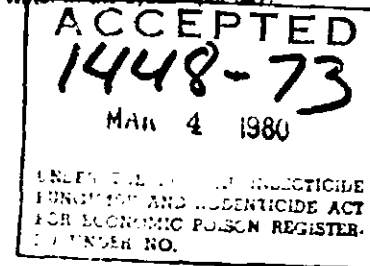
**For Control of Algae:** If intermittent or slug dose treatment is used and system is fouled, add initial dose of 0.192-0.380 gal BRONAM 5/1000 gal of water in the system. If control is evident. Subsequent doses of 0.116-0.380 BRONAM 5/1000 gal of water should be made daily, or as needed to maintain control. If continuous treatment is used and system is fouled, add initial dose of 0.192-0.380 gal BRONAM 5/1000 gal of water to the system. Then maintain this level by continuous feed of 0.116-0.380 gal BRONAM 5/1000 gal of water per day.

**For Control of Bacteria:** If intermittent or slug dose treatment is used and system is fouled, add initial dose of 0.019-0.038 gal BRONAM 5/1000 gal of water in the system. If control is evident. Subsequent doses of 0.0095-0.038 gal BRONAM 5/1000 gal of water should be made every 4 days, or as needed to maintain control. If continuous treatment is used and system is noticeably fouled, add initial dose of 0.019-0.038 gal BRONAM 5/1000 gal of water to the system. Then maintain this level by continuous feed of 0.0019-0.019 gal BRONAM 5/1000 gal of water per day.

**AIR WASHER SYSTEMS:** BRONAM 5 is used to control slime-forming bacteria in industrial air-washer systems, by intermittent or continuous treatment of the water. Fouled systems must be cleaned before treatment is begun.

If intermittent or slug dose treatment is used and system is noticeably fouled, add initial dose of 0.156-0.250 gal BRONAM 5/1000 gal of water in the system. Repeat until control is evident. Subsequent doses of 0.0078-0.125 gal BRONAM 5/1000 gal of water in the system should be made as needed to maintain control.

If continuous treatment is used and system is noticeably fouled, add initial dose of 0.156-0.250 gal BRONAM 5/1000 gal of water in the system. Then maintain this level by continuous feed of 0.0078-0.125 gal BRONAM 5/1000 gal of water in the system per day.



**BUCKMAN LABORATORIES,**  
MEMPHIS, TENN. 38108, U.S.A.

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# BRONAM 5

## FOR INDUSTRIAL MICROORGANISM CONTROL

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**INGREDIENTS:**  
Dimethylamino-3-nitrilopropionamide ..... 5%  
Inert Ingredients\* ..... 95%  
\* include stabilizing and dispersing agents.

EPA Reg. No. 1448-73  
EPA Est. No. 1448-TN-1  
Net Contents as Marked  
on Container

### DIRECTIONS FOR USE

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

**IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.**

**NOTE:** BRONAM 5 must be added separately to systems. Do not mix it with other additives; the high pH of many additive formulations will cause decomposition of BRONAM 5.

**COOLING WATER SYSTEMS:** BRONAM 5 is used in industrial recirculating water cooling towers to control fouling by algae and bacteria. The microbicide should be added to the tower basin by use of a metering pump, continuously or intermittently, depending on the severity of contamination and the retention time in the system. If "shock" dosing is used, the blowdown should be discontinued for 24-48 hr after treatment. Badly fouled systems must be cleaned before treatment is begun.

**For Control of Algae:** If intermittent or slug dose treatment is used and system is noticeably fouled, add initial dose of 0.192-0.380 gal BRONAM 5/1000 gal of water in the system. Repeat until control is evident. Subsequent doses of 0.116-0.380 BRONAM 5/1000 gal of water in the system should be made daily, or as needed to maintain control. If continuous treatment is used and system is noticeably fouled, add initial dose of 0.192-0.380 gal BRONAM 5/1000 gal of water to the system. Then maintain treatment by continuous feed of 0.116-0.380 gal BRONAM 5/1000 gal of water in the system per day.

**For Control of Bacteria:** If intermittent or slug dose treatment is used and system is noticeably fouled, add initial dose of 0.019-0.038 gal BRONAM 5/1000 gal of water in the system. Repeat until control is evident. Subsequent doses of 0.0095-0.038 gal BRONAM 5/1000 gal of water in the system should be made every 4 days, or as needed to maintain control. If continuous treatment is used and system is noticeably fouled, add initial dose of 0.019-0.038 gal BRONAM 5/1000 gal of water to the system. Then maintain this level by continuous feed of 0.0019-0.019 gal BRONAM 5/1000 gal of water lost by blowdown.

**AIR WASHER SYSTEMS:** BRONAM 5 is used to control slime-forming bacteria and fungi in industrial air-washer systems, by intermittent or continuous treatment of the water in the system. Badly fouled systems must be cleaned before treatment is begun.

If intermittent or slug dose treatment is used and system is noticeably fouled, add initial dose of 0.156-0.250 gal BRONAM 5/1000 gal of water in the system. Repeat until control is evident. Subsequent doses of 0.0078-0.125 gal BRONAM 5/1000 gal of water in the system should be made every 2 days, or as needed to maintain control.

If continuous treatment is used and system is noticeably fouled, add initial dose of 0.156-0.250 gal BRONAM 5/1000 gal of water in the system. Then maintain this level by continuous feed of 0.0078-0.125 gal BRONAM 5/1000 gal of water in the system per day.

ACCEPTED  
1448-73  
MAY 4 1980  
UNDER THE FEDERAL PESTICIDE  
FUNGICIDE AND HERBICIDE ACT  
FOR ECONOMIC POISON REGISTERED  
UNDER NO.

**BUCKMAN LABORATORIES, INC.**

MEMPHIS, TENN. 38108, U.S.A.

52-A 1/80

### STORAGE & DISPOSAL

**STORAGE:** Do not contaminate water, food, or feed by storage or disposal. Recycling is prohibited. Do not reuse empty container.

**DISPOSAL:** Pesticide, spray mixture, or rinsate that cannot be used or reprocessed should be disposed of in a landfill approved for pesticides or a safe place away from water supplies.

**FOR DISPOSAL:** Triple rinse (or equivalent) and dispose in an incinerator approved for pesticide containers, or bury in a safe place.

Consult Federal, State, or local disposal authorities for approved alternative procedures such as limited open burning.

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