

**DIRECTIONS FOR USE**

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

**AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS/  
RECIRCULATING COOLING AND PROCESS WATER SYSTEMS**

This product may be used only in industrial air washers and air washer systems which have mist-eliminating components.

AQUACART™ 545 Water Treatment Microbiocide should be added at the application rates described below, to a water treatment system at a convenient point of uniform mixing such as the basin area. Addition may be made intermittently (SLUG DOSE) or continuously. Badly fouled systems can be shock treated with AQUACART™ 545 Water Treatment Microbiocide. Under these conditions, blowdown should be discontinued for up to 24 hours.

AQUACART™ 545 Water Treatment Microbiocide can be used in industrial process water systems that contain ultra filtration units and non-medical reverse osmosis membranes (where approved for compatibility by the membrane manufacturer) and associated distribution systems.

**INTERMITTENT (SLUG DOSE) METHOD**

**Initial Dose:** When the system is noticeably fouled, apply 14.2 to 28.2 fluid ounces of AQUACART™ 545 Water Treatment Microbiocide per 1,000 gallons of water in the system. Repeat until control is achieved.

**Subsequent Dose:** When microbial control is evident, add 5.7 to 14.2 fluid ounces of AQUACART™ 545 Water Treatment Microbiocide per 1,000 gallons of water in the system weekly, or as needed to maintain control.

Badly fouled systems must be cleaned before treatment is begun.

**CONTINUOUS FEED METHOD**

**Initial Dose:** When the system is noticeably fouled, apply 14.2 to 28.2 fluid ounces of AQUACART™ 545 Water Treatment Microbiocide per 1,000 gallons of water in the system.

**Subsequent Dose:** Maintain this treatment level by starting a continuous feed of 2.8 to 14.2 fluid ounces of AQUACART™ 545 Water Treatment Microbiocide per 1,000 gallons of water in the system per day.

Badly fouled systems must be cleaned before treatment is begun.

**SERVICE WATER AND AUXILIARY SYSTEMS**

(Fire water systems and Spray paint booths)

AQUACART™ 545 Water Treatment Microbiocide should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point that will allow for uniform mixing throughout the system.

**HEAT TRANSFER SYSTEMS**

(Evaporative Condensers, Dairy Sweetwater Systems, Hydrostatic Sterilizers and Retorts, and Pasteurizers and Warmers and Once-Through Cooling Water Systems)

AQUACART™ 545 Water Treatment Microbiocide should be used 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 WASTEWATER SYSTEMS**

(Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks)

AQUACART™ 545 Water Treatment Microbiocide should be added to a wastewater system or sludge at a convenient point of uniform mixing such as the digester. Add 0.5 to 2.5 gallons 500 to 2,500 ppm AQUACART™ 545 Water Treatment Microbiocide per 1,000 gallons of wastewater or sludge.

**MACROFOULING CONTROL**

AQUACART™ 545 Water Treatment Microbiocide should be added continuously to maintain a level of 20 ppm active ingredient in the system for a period of at least 96 hours.

**Initial Dose:** When macrofouling is present in the system, apply 5.6 fluid ounces of AQUACART™ 545 Water Treatment Microbiocide per 1,000 gallons of water in the system. Continue to add as needed to maintain the 20 ppm active ingredient level for a period of at least 96 hours.

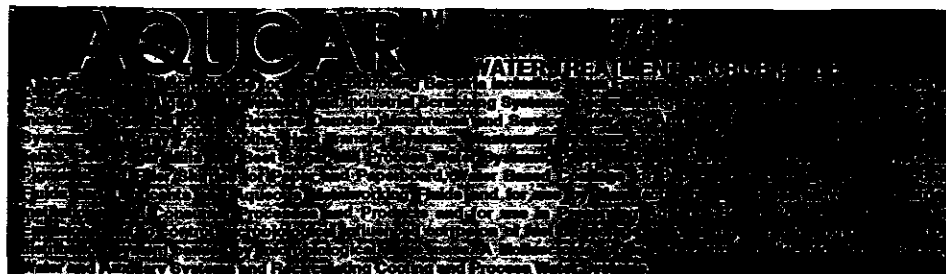
**STORAGE AND DISPOSAL**

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal. Open burning is prohibited. Pesticide wastes are toxic. 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 your Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Metal Containers or Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or other procedures approved by state and local authorities. Plastic Containers: May be incinerated, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Metal Containers: Must not be incinerated. Do not cut or weld on or near metal containers.

CONTINUED ON PAGE TWO

This label is BUSINESS CONFIDENTIAL and shall not be distributed to anyone unless duly authorized by Regulatory Affairs.



Active Ingredient: Glutaraldehyde \_\_\_\_\_ 45.0%  
Inert Ingredients: \_\_\_\_\_ 55.0%  
100.0%

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

**If swallowed:**

- Call a poison control center or a doctor immediately for treatment advice.
- DO NOT INDUCE VOMITING.
- Do not give anything to drink.

**If in eyes:**

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- After at least 15 minutes of rinsing or after it is judged that nearly all of the contamination has been removed, contact an Ophthalmologist before attempting to remove the contact lens(es).
- Call a poison control center or a doctor immediately for 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 a doctor for treatment advice.

**If inhaled:**

- 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 a doctor for further treatment advice.

**NOTE TO PHYSICIAN:** Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

Have the MSDS and, if available, the product container or label with you when calling a poison control center or a doctor, or going for treatment.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.



THE DOW CHEMICAL COMPANY  
Midland, Michigan 48674 U.S.A.  
1-800-258-CHEM

EPA Reg. No. 464-  
EPA Est. No. 10352-WV-2  
L90226 (H 06/01)  
Made In USA  
PE0601

\*Trademark of THE DOW CHEMICAL COMPANY

Net Contents: 55 gallons

CONTAINER SIZE	SHIPPING NAME	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CONTAINS GLUTARALDEHYDE)	
55 GALLONS		ID NUMBER	PG II
504 POUNDS	HAZARD CLASS	UN 3265	
NET WEIGHT	8		

IN CASE OF AN EMERGENCY endangering life or property involving this product, call collect 989-636-4400.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER**

**KEEP OUT OF REACH OF CHILDREN**

Corrosive. Causes irreversible eye damage. Causes skin burns. Harmful if inhaled. May be fatal if swallowed. Harmful if absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Causes asthmatic signs and symptoms in hyper-reactive individuals. Do not get in eyes, on skin, on clothing. Avoid breathing vapor. Do not swallow. Wear goggles, protective clothing, and belt or nitrile gloves. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**ENVIRONMENTAL HAZARDS**

This pesticide 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 HANDLING**

AQUACART™ 545 Water Treatment Microbiocide solutions are incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. These solutions can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about 1°F (-17°C). Therefore, unless the storage tank is inside or underground, heating and insulation may be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to about 1 month), temperatures of up to 100°F (37.8°C) can be tolerated but the preferred maximum storage temperature is about 80°F (26.7°C). A stainless steel centrifugal pump is suggested for transfer service. Spiral-wound stainless steel with TEFLON® is suitable for gaskets and packing.

**LIMITED WARRANTY AND DISCLAIMER**

Seller warrants that the product conforms to its chemical description as contained on this label and is reasonably fit for the purposes stated on this label when used in accordance with directions under normal conditions of use. THE WARRANTIES MADE IN THIS PARAGRAPH ARE SELLER'S SOLE WARRANTIES WITH RESPECT TO THE PRODUCT AND ARE MADE EXPRESSLY IN LIEU OF AND EXCLUDE ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER EXPRESS OR IMPLIED REPRESENTATIONS AND WARRANTIES.

**BEFORE HANDLING OR USING, READ AND UNDERSTAND CURRENT MATERIAL SAFETY DATA SHEET FOR THIS PRODUCT.**

**ACCEPTED**

OCT 12 2001



**NOTICE**  
Do Not Ship or Store  
with Food, Feeds, Drugs,  
or Clothing

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 464-692

464-692

10-12-2001

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### BEET SUGAR MILLS AND BEET SUGAR MILL PROCESS WATER SYSTEMS

AQUCARTM 545 Water Treatment Microbiocide should be added to the system at a point of uniform mixing such as the diffuser, transport water pump, weir box, or diffuser feed water pump. Additions may be made intermittently (SLUG DOSE) or continuously.

#### INTERMITTENT (SLUG DOSE) METHOD

**Initial Dose:** When the system is noticeably contaminated, add 6.1 to 15.1 fluid ounces (225 to 560 ppm product) of AQUCARTM 545 Water Treatment Microbiocide per ton or 225 to 560 mL of AQUCARTM 545 Water Treatment Microbiocide per metric ton of sliced beets as a slug dose. Repeat until control is achieved.

**Subsequent Dose:** When microbial control is evident, add 0.9 to 9.1 fluid ounces (33 to 330 ppm) of AQUCARTM 545 Water Treatment Microbiocide per ton or 33 to 330 mL of AQUCARTM 545 Water Treatment Microbiocide per metric ton of sliced beets in the system as a slug dose as necessary to maintain control. The total should not exceed 106 gallons per 1,000 tons of beets sliced per day.

#### CONTINUOUS FEED METHOD

**Initial Dose:** When the system is noticeably contaminated, add 6.1 to 15.1 fluid ounces/minute (225 to 560 ppm product) of AQUCARTM 545 Water Treatment Microbiocide per ton or 225 to 560 mL/minute of AQUCARTM 545 Water Treatment Microbiocide per metric ton of beets sliced per minute in the system via automatic pump of suitable construction.

**Subsequent Dose:** When microbial control is evident, add 0.9 to 9.1 fluid ounces/minute (33 to 330 ppm) of AQUCARTM 545 Water Treatment Microbiocide per ton or 33 to 330 mL/minute of AQUCARTM 545 Water Treatment Microbiocide per metric ton of beets sliced per minute in the system, or as necessary to maintain control. The total should not exceed 106 gallons per 1,000 tons of beets sliced per day.

### PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS

AQUCARTM 545 Water Treatment Microbiocide should be added to the paper making system at a point of uniform mixing such as the beaters, broke chest pump, save-all tank, or white-water tank.

**Initial Dose:** When the system is noticeably contaminated, add 0.6 to 3.3 lbs of AQUCARTM 545 Water Treatment Microbiocide per ton of pulp or paper (dry basis) as a slug dose. Repeat until control is achieved. Heavily fouled systems should be boiled out prior to initial treatment.

**Subsequent Dose:** When microbial control is evident, add 0.3 to 2.2 lbs of AQUCARTM 545 Water Treatment Microbiocide per ton of pulp or paper (dry basis) as a slug dose as necessary to maintain control.

### PIGMENTS AND FILLER SLURRIES FOR PAPER AND PAPERBOARD

Use from 0.11 to 0.7 lbs. of AQUCARTM 545 Water Treatment Microbiocide per 1,000 lbs. of dry powder to produce a concentration from 111 to 667 ppm as product (based on slurry solids) in the mixed slurry.

### WATER BASED COATINGS FOR PAPER AND PAPERBOARD

NOTE: For use in non-food contact coatings only.

Use from 0.11 to 0.7 lbs. of AQUCARTM 545 Water Treatment Microbiocide per 1,000 lbs. of dry powder to produce a concentration from 111 to 667 ppm as product (based on slurry solids) in the mixed slurry.

### AQUEOUS METALWORKING FLUIDS

AQUCARTM 545 Water Treatment Microbiocide should be added to a metalworking fluid system at a point of uniform mixing such as the fluid collection tank. Additions may be made intermittently (SLUG DOSE) at intervals of one week or less.

**Initial Dose:** When the system is noticeably fouled apply 2 to 6 gallons of AQUCARTM 545 Water Treatment Microbiocide per 10,000 gallons of metalworking fluid to the system. Repeat until control is achieved.

**Subsequent Dose:** When microbial control is evident, add 0.8 to 4 gallons of AQUCARTM 545 Water Treatment Microbiocide per 10,000 gallons of metalworking fluid to the system weekly, or as needed to maintain control. Badly fouled systems should be cleaned before treatment is begun.

### WATER BASED CONVEYOR LUBRICANTS

(Brewery, Juice, Dairy, Beverage, and Food Processing Systems)

**Avoid contamination of food in application of product.**

Thoroughly clean all tracks and conveyors to remove gross soil. Rinse well. Use an automatic feed system as recommended by our DOW representative to provide 1.4 to 6.4 fluid ounces (50 to 300 ppm active) of AQUCARTM 545 Water Treatment Microbiocide per 100 gallons of diluted lubricant.

### GENERAL PRESERVATIVE USE

AQUCARTM 545 Water Treatment Microbiocide is recommended for use in aqueous or water containing products and systems, including industrial, institutional and consumer in-can processes and products, to control the growth of bacteria and fungi. For effective preservation, add AQUCARTM 545 Water Treatment Microbiocide to the product formulation at a rate of 0.022% to 0.22% (222.5 to 2,222.5 ppm) based on the water content of the product (0.22 to 2.2 lbs AQUCARTM 545 Water Treatment Microbiocide /1,000 lbs water content). Mix uniformly.

### PRESERVATIVE FOR CONCENTRATES

For use in concentrates where effective preservation is needed after dilution, add AQUCARTM 545 Water Treatment Microbiocide to the product formulation at a rate such that the diluted end-use product will contain 0.022% to 0.22% AQUCARTM 545 Water Treatment Microbiocide.

At no time during the preservation process should the level of AQUCARTM 545 Water Treatment Microbiocide exceed 2.2%.

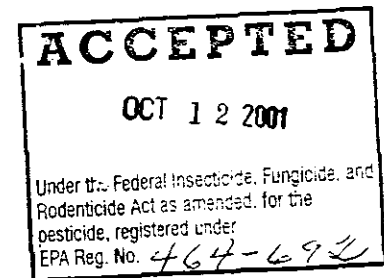
### REVERSE OSMOSIS MEMBRANES

For effective preservation of reverse osmosis elements (where approved for compatibility by membrane manufacturer), immerse elements in a tank containing 0.22% to 2.2% AQUCARTM 545 Water Treatment Microbiocide.

AQUCARTM 545 Water Treatment Microbiocide can also be added to in-line recirculating systems for preservation of installed out-of-service reverse osmosis equipment (where approved for compatibility by membrane manufacturer). Add 0.22% to 2.2% AQUCARTM 545 Water Treatment Microbiocide to the tank in the circulating system. Maintain AQUCARTM 545 Water Treatment Microbiocide concentration by periodic addition to counteract any system leakage.

### CONCRETE ADMIXTURES

For effective preservation of concrete admixtures, add AQUCARTM 545 Water Treatment Microbiocide to the product formulation at a rate of 2,222 to 8,889 ppm based on the weight of the admixture (2.2 to 8.9 lbs AQUCARTM 545 Water Treatment Microbiocide/1,000 lbs. concrete admixture). Mix uniformly.



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