

**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 butyl 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

AQUCAR GA 50 Water Treatment Microbiocide is incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. AQUCAR GA 50 Water Treatment Microbiocide can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about -6°F (-21°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® Polymer is suitable for gaskets and packing.

Handle in a well-ventilated area. If vapors are irritating to the nose or eyes, special ventilation or respiratory protection (MSHA/NIOSH approved air purifying respirator equipped with an organic vapor cartridge) may be required.

STORAGE AND DISPOSAL

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Open dumping 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:
Label option for nonrefillable containers of all sizes
Nonrefillable container. Do not reuse or refill this container. Triple or pressure rinse (or equivalent) promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or other procedures approved by state and local authorities.

Option to use for labels on refillable containers of all sizes
Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning of the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean container before final disposal, empty contents into application equipment and triple rinse. Pour or pump rinsate into application equipment or rinsate collection system. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

BEFORE HANDLING OR USING THIS PRODUCT, SEE YOUR EMPLOYER AND READ CURRENT MATERIAL SAFETY DATA SHEET.

AQUCAR™ GA 50 Water Treatment Microbiocide

A highly effective Microbiocide for use in controlling Slime Forming Bacteria and Sulfate-Reducing Bacteria, Fungi (Yeast and Molds) and Algae in Air Washers and Industrial Scrubbing Systems, Recirculating Cooling and Process Water Systems Including those that contain Reverse Osmosis Membranes and Service Water and Auxiliary Systems, Heat Transfer Systems, Wastewater Systems Including Wastewater Sludge and Holding Tanks, Paper Mills and Paper Mill Process Water Systems, Pigments and Filler Slurries for Paper and Paperboard, Water Based Coatings for Paper and Paperboard and in Oil Well Drilling, Oil Field Processing Applications, Oil Field Water Systems, Oil and Gas Production and Transmission Pipelines and Systems, and Gas Storage Fields and Equipment such as Steam-Injection Water Holding Tanks, Flood Water, Fracturing Fluids, Injection Water, Holding Pond Water, Disposal-Well Water, Water Holding Tanks, Fuel Storage Tanks and related Refinery and Oil Field Closed, Industrial Recirculating Water Handling Systems and for use by Manufacturers and Formulators in Formulating Products for Oil Field Applications. Formulators using this product are responsible for providing data for the EPA Registration of their formulated product.

Active Ingredient:	Glutaraldehyde	50%
Inert Ingredient(s):		50%
Total		100%

**KEEP OUT OF REACH OF CHILDREN
DANGER**

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none"> • Call a poison control center or a doctor for further treatment advice. • DO NOT INDUCE VOMITING. • Do not give anything to drink.
IF IN EYES:	<ul style="list-style-type: none"> • Wash immediately and continuously with flowing water for at least 30 minutes. • Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist. • Call a poison control center or a doctor immediately for treatment advice.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15–20 minutes. • Call a poison control center or a doctor for further treatment advice.
IF INHALED:	<ul style="list-style-type: none"> • 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.	
IN CASE OF AN EMERGENCY endangering life or property involving this product, call collect (989)636-4400.	

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

Produced for: *(Option when produced by contract manufacturer)*





LICENSED

PERIOD **2011-2013** LIC. NO. _____

E.P.A. Registration No. 464-704

E.P.A. Est. 10352-WV-002

The Dow Chemical Company
Midland, Michigan 48674 U.S.A.
(989)636-4400

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LICENSED

PERIOD **2014-2016** LIC. NO. _____

Made in U.S.A.

NET CONTENTS: 267.68 gallons

NET WT: 2425 lb / 1100 kg

LOT: 9197.287

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. AQUCAR GA 50 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 AQUCAR GA 50 Water Treatment Microbiocide. Under these conditions, blowdown should be discontinued for up to 24 hours. AQUCAR GA 50 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 11.3 to 22.7 fluid ounces (100 to 200 ppm product) of AQUCAR GA 50 Water Treatment Microbiocide per 1,000 gallons of water in the system, or 89 to 177 mL of AQUCAR GA 50 Water Treatment Microbiocide per 1,000 liters of water in the system. Repeat until control is achieved.
Subsequent Dose: When microbial control is evident, add 4.5 to 11.3 fluid ounces (40 to 100 ppm) of AQUCAR GA 50 Water Treatment Microbiocide per 1,000 gallons of water in the system weekly, or 35 to 89 mL of AQUCAR GA 50 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 11.3 to 22.7 fluid ounces (100 to 200 ppm product) of AQUCAR GA 50 Water Treatment Microbiocide per 1,000 gallons of water in the system, or 89 to 177 mL of AQUCAR GA 50 Water Treatment Microbiocide per 1,000 liters of water in the system.
Subsequent Dose: Maintain this treatment level by starting a continuous feed of 2.3 to 11.3 fluid ounces (20 to 100 ppm product) of AQUCAR GA 50 Water Treatment Microbiocide per 1,000 gallons of water in the system per day or 17.7 to 88.6 mL of AQUCAR GA 50 Water Treatment Microbiocide per 1,000 liters of water in the system per day. Badly fouled systems must be cleaned before treatment is begun.

SERVICE WATER AND AUXILIARY SYSTEMS
AQUCAR GA 50 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)
AQUCAR GA 50 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)
AQUCAR GA 50 Water Treatment Microbiocide should be added to a wastewater system or sludge at a convenient point of uniform mixing such as the digester. Add 0.4 to 2.0 gallons (450 to 2,250 ppm product) of AQUCAR GA 50 Water Treatment Microbiocide per 1,000 gallons of wastewater or sludge or 399 mL to 1,994 mL of AQUCAR GA 50 Water Treatment Microbiocide per 1,000 liters of wastewater or sludge.

PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS
AQUCAR GA 50 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 noticeable contaminated, add 0.5 to 3.0 lbs of AQUCAR GA 50 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 2.0 lbs of AQUCAR GA 50 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
(For use in food and non-food contact pigments and filler slurries)
Use from 0.1 to 0.6 lbs. of AQUCAR GA 50 Water Treatment Microbiocide per 1,000 lbs. of dry powder to produce a concentration from 100 to 600 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 0.1 to 0.6 lbs. of AQUCAR GA 50 Water Treatment Microbiocide per 1,000 lbs. of dry powder to produce a concentration from 100 to 600 ppm as product (based on slurry solids) in the mixed slurry.

WATER FLOODS
AQUCAR GA 50 Water Treatment Microbiocide should be added to a water flood system at a point of uniform mixing.
Initial Treatment: When the system is noticeably contaminated, add 100 to 5,000 ppm AQUCAR GA 50 Water Treatment Microbiocide to the system (0.09 to 4.4 gallons AQUCAR GA 50 Water Treatment Microbiocide per 1,000 gallons flood water). Repeat until control is achieved.
Subsequent Dose: When microbial control is evident, add 20 to 5,000 ppm AQUCAR GA 50 Water Treatment Microbiocide (0.02 to 4.4 gallons AQUCAR GA 50 Water Treatment Microbiocide per 1,000 gallons flood water) to the system weekly, or as needed to maintain control.

FRAC FLUIDS
Product not registered for this use in the State of California.
AQUCAR GA 50 Water Treatment Microbiocide reduces bacterial contamination and degradation of fracturing fluids and gels used in oil and gas well stimulations. Add AQUCAR GA 50 Water Treatment Microbiocide to the frac water storage tanks or directly into the well head injection pipeline as the water is being pumped down-hole.
Dose Range: AQUCAR GA 50 Water Treatment Microbiocide should be added at a rate of 100 to 5000 ppm (0.9 – 44.3 gals per 10,000 gallons) depending on the degree of bacterial fouling in the source water.

DRILLING, COMPLETION, AND WORKOVER FLUIDS
AQUCAR GA 50 Water Treatment Microbiocide should be added to a drilling fluid system at a point of uniform mixing such as the circulating mud tank.
Initial treatment: Add 50 to 1,000 ppm AQUCAR GA 50 Water Treatment Microbiocide (0.2 to 3.7 gallons AQUCAR GA 50 Water Treatment Microbiocide per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination.
Maintenance dosage: Maintain a concentration of 50 to 1,000 ppm AQUCAR GA 50 Water Treatment Microbiocide by adding 0.2 to 3.7 gallons of AQUCAR GA 50 Water Treatment Microbiocide per 100 barrels of additional fluid, or as needed, depending on the severity of contamination.

PACKER FLUIDS
AQUCAR GA 50 Water Treatment Microbiocide should be added to a packer fluid at a point of uniform mixing such as a circulating holding tank. Add 50 to 600 ppm AQUCAR GA 50 Water Treatment Microbiocide (0.2 to 2.2 gallons AQUCAR GA 50 Water Treatment Microbiocide per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination. Seal the treated packer fluid in the wall between the casing and production tube.

OIL PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS
Product not registered for this use in the State of California. (Option)
AQUCAR GA 50 Water Treatment Microbiocide should be added to an oil production or transmission line via direct injection. The application should be conducted to ensure maximum distribution of AQUCAR GA 50 Water Treatment Microbiocide throughout the entire internal pipeline surface by adding a sufficient amount of biocide to detect/measure a residual concentration at the back end of the pipeline system. Criteria for success of the treatment will be a reduction in bacterial counts and/or reduced corrosion rates. To facilitate application, it may be desirable to dilute the AQUCAR GA 50 Water Treatment Microbiocide with an appropriate solvent immediately before use. The concentration in the solvent should not fall below an active concentration range of 500 to 5,000 ppm based on the volume of water in the pipeline. Injections to the system should be weekly, or as needed to maintain control.

GAS PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS
AQUCAR GA 50 Water Treatment Microbiocide should be added to a gas production or transmission pipeline via direct injection. The application should be conducted to ensure maximum distribution of AQUCAR GA 50 Water Treatment Microbiocide throughout the entire internal pipeline surface by adding a sufficient amount of biocide to detect/measure a residual concentration at the back end of the pipeline system. Criteria for success of the treatment will be a reduction in bacterial counts and/or reduced corrosion rates. To facilitate application, it may be desirable to dilute the AQUCAR GA 50 Water Treatment Microbiocide with an appropriate solvent immediately before use. The concentration in the solvent should not fall below an active concentration range of 500 to 5,000 ppm based on the volume of water in the pipeline. Injections to the system should be weekly, or as needed to maintain control.

GAS STORAGE WELLS AND SYSTEMS
Individual injection wells should be treated with a sufficient quantity of AQUCAR GA 50 Water Treatment Microbiocide to produce a concentration of 500 to 5000 ppm AQUCAR GA 50 Water Treatment Microbiocide when diluted by the water present in the formation. Injection should take place before gas is injected (during the summer). Injections should be repeated yearly, or as needed to maintain control. Individual drips should be treated with a sufficient quantity of AQUCAR GA 50 Water Treatment Microbiocide to produce a concentration of 200 to 2000 ppm AQUCAR GA 50 Water Treatment Microbiocide when diluted by the water present in the drip. Injections should be repeated yearly, or as needed to maintain control.

HYDROTESTING
Water used to hydrotest pipelines or vessels should contain 100 to 4,000 ppm AQUCAR GA 50 Water Treatment Microbiocide (0.09 to 3.5 gallons AQUCAR GA 50 Water Treatment Microbiocide per 1,000 gallons water), depending on water quality and length of time the equipment will remain idle.

PIPELINE PIGGING AND SCRAPING OPERATIONS
Add AQUCAR GA 50 Water Treatment Microbiocide 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 AQUCAR GA 50 Water Treatment Microbiocide should be added to produce a concentration of 0.1 to 1% (0.09 to 0.9 gallon AQUCAR GA 50 Water Treatment Microbiocide per 100 gallons water), depending on the length of the pipeline and the severity of biofouling.

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.

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