

464-8133

9/11/2014

1/9



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Antimicrobials Division (7510P)  
1200 Pennsylvania Avenue NW  
Washington, D.C. 20460

EPA Reg. Number:

464-8133

Date of Issuance:

SEP 11 2014

Term of Issuance:

**Unconditional**

Name of Pesticide Product:

AQUCAR GA 20BF Water  
Treatment Microbiocide

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

The Dow Chemical Company  
100 Larkin Center, 1650 Joseph Dr.  
Midland, Michigan 48674

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

The application referred to above, submitted under the Federal Insecticide, Fungicide and Rodenticide Act, as amended is acceptable under FIFRA sec. 3(c)(5), provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

A stamped copy of your labeling is enclosed for your records. Submit a final printed label before distributing or selling this product. The basic CSF, alternate 1 CSF, alternate 2 CSF and alternate 3 CSF dated 4/14/14 were found to be acceptable.

Signature of Approving Official:

Eric Miederhoff  
Acting Product Manager Team 33  
Regulatory Management Branch  
Antimicrobials Division (7510P)

Date:

SEP 11 2014

EPA Form 8570-6

If you have questions concerning this matter, please contact me at (703) 308-8028 or by email at Miederhoff.Eric@epa.gov.

Sincerely,

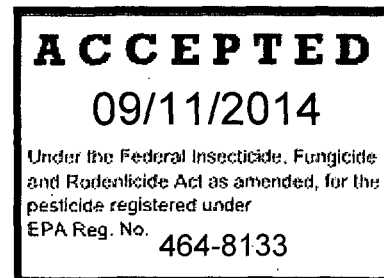
Eric Miederhoff  
Acting Product Manager (33), RMBI  
Antimicrobials Division (7510P)

Enclosure: Stamped label

AQUCAR™ GA 20BF Water Treatment Microbiocide  
Master Label  
September, 2014

## AQUCAR™ GA 20BF Water Treatment Microbiocide

Active Ingredient: Glutaraldehyde.....20%  
Inert Ingredients: ..... 80%  
Total 100%



EPA Reg. No. 464-8133

EPA Est. No. XXXXX

### KEEP OUT OF REACH OF CHILDREN

#### DANGER

PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### DANGER

Corrosive • Causes irreversible eye damage • Causes skin irritation • Harmful if inhaled. Harmful 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 • Wash thoroughly with soap and water after handling • Remove contaminated clothing and wash before reuse.

#### Personal Protective Equipment

Applicators and other handlers must wear: goggles or face shield, long-sleeve shirt, long pants, shoes, socks, chemical-resistant gloves (such as butyl rubber) and chemical resistant apron.

#### User Safety Requirements

Follow manufacturers' instructions for cleaning & maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### User Safety Recommendations

Users must wash hands before eating, drinking, chewing gum, or using the toilet.

Users must remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users must remove PPE immediately after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

4/9

AQUCAR™ GA 20BF Water Treatment Microbiocide  
Master Label  
September, 2014

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish, aquatic invertebrates, oysters and shrimp. 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.

<b>FIRST AID</b>	
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give anything to an unconscious person.</li> <li>• Call a poison control center or doctor immediately for treatment advice.</li> </ul>
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Wash immediately and continuously with flowing water for at least 30 minutes.</li> <li>• Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist.</li> <li>• Call a poison control center or a doctor immediately for treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF INHALED</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air</li> <li>• If person is not breathing, call 911 or an ambulance, and then give artificial respiration preferably mouth to mouth if possible.</li> <li>• Call a poison control center or a doctor for further treatment advice</li> </ul>
<b>HOT LINE NUMBER</b>	
<b>IN CASE OF AN EMERGENCY</b> endangering life or property involving this product, call collect (989) 636-4400.	
<b>NOTE TO PHYSICIAN:</b> Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage. Have the product container or label with you when calling a poison control center or a doctor, or going for treatment.	

AQUCAR™ GA 20BF Water Treatment Microbiocide  
Master Label  
September, 2014

## STORAGE AND HANDLING

**Storage:** To maintain product quality, store at temperatures below 80 °F (26.7 °C) Keep container tightly closed when not in use.

**Handling:** AQUCAR GA 20BF Water Treatment Microbiocide is incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. AQUCAR GA 20BF 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 16 °F (-9 °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.

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.

The product in its undiluted form must not be used in a spray, or aerosol application.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. 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 Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

### Container Disposal

*Option to use for labels on nonrefillable rigid containers of all sizes*

Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

AQUCAR™ GA 20BF Water Treatment Microbiocide  
Master Label  
September, 2014

***Option to use for labels on refillable rigid tote containers***

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 sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

**DIRECTIONS FOR USE**

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

**INDUSTRIAL OR COMMERCIAL COOLING WATER SYSTEMS**

*Not registered for this use in the State of California- Optional Statement*

Not intended for use in once-through cooling systems.

For control of microbial growth in industrial or commercial cooling water systems use either continuous or slug dosing.

**CONTINUOUS FEED**

Add product to metering device for continuous feed. Add 50 to 500 ppm per day of product to the water in the system depending on the severity of contamination. Badly fouled systems must be cleaned before treatment. Do not exceed more than 500 ppm product in system water per day.

**SLUG DOSING**

Add product to basin of cooling system or at any other point of uniform mixing. Add 100 to 500 ppm product to the water in the system depending upon severity of contamination. Repeat as needed to maintain control. Badly fouled systems must be cleaned before treatment.

**AIR-WASHER SYSTEMS**

*Not registered for this use in the State of California – Optional Statement*

NOTE: For use only in industrial air-washer systems that maintain effective mist eliminating components.

For control of microbial growth in air washer systems use either continuous or slug dosing.

**CONTINUOUS FEED**

Add product using metering device for continuous feed. Add 50 to 500 ppm per day of product to the water in the system depending on the severity of contamination. Badly fouled systems must be cleaned before treatment. Do not exceed more than 500 ppm product in system water per day.

**SLUG DOSING**

Add product to basin of cooling system or at any other point of uniform mixing. Add 100 to 500 ppm product to the water in the system depending upon severity of contamination. Repeat as needed to maintain control. Badly fouled systems must be cleaned before treatment

AQUCAR™ GA 20BF Water Treatment Microbiocide  
Master Label  
September, 2014

**SERVICE WATER AND AUXILIARY SYSTEMS**

For control of microbial growth in service and auxiliary water systems use either continuous or slug dosing.

**CONTINUOUS FEED**

Add product to metering device for continuous feed. Add 50 to 500 ppm per day of product to the water in the system depending on the severity of contamination. Badly fouled systems must be cleaned before treatment. Do not exceed more than 500 ppm product in system water per day.

**SLUG DOSING**

Add product to basin of cooling system or at any other point of uniform mixing. Add 100 to 500 ppm product to the water in the system depending upon severity of contamination. Repeat as needed to maintain control. Badly fouled systems must be cleaned before treatment.

**PAPER MILLS AND PAPER MILL PROCESS WATER SYSTEMS**

AQUCAR GA 20BF Water Treatment Microbiocide must 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 1.25 to 7.5 lbs of product 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 0.75 to 5 lbs of product 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 non-food contact pigments and filler slurries)**

Add 250 to 1500 ppm AQUCAR GA 20BF Water Treatment Microbiocide (based on slurry solids) in the mixed slurry.

**WATER BASED COATINGS FOR PAPER AND PAPERBOARD**

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

Add 250 to 1500 ppm AQUCAR GA 20BF Water Treatment Microbiocide (based on slurry solids) in the mixed slurry.

AQUCAR™ GA 20BF Water Treatment Microbiocide  
Master Label  
September, 2014

**Oil and Gas Production Uses**

At a point of uniform mixing, apply AQUCAR GA 20BF Water Treatment Microbiocide at a concentration within the stated dosing range for the relevant product application. Subsequent treatments can be applied, as needed, to maintain an effective microbial control concentration, within the described dosage range. The stated concentration ranges provide microbial control of microorganisms at differing levels of contamination.

**Drilling, Completion, and Workover Fluids**

Add 125 to 2500 ppm product to the freshly-prepared fluid system. Subsequent treatments may be applied, as needed, to maintain a concentration of 125 to 2500 ppm due to fluid reuse or turn over.

**Packer Fluids**

Add 125 to 1500 ppm product to a circulating packer fluid to ensure uniform mixing. Seal the treated packer fluid in the wall between the casing and production tube.

**Fracturing Fluids**

Add 250 to 12,500 ppm product at any point in the production or application of the fracturing fluid to reduce bacterial contamination and fracturing fluid degradation.

**Water Floods and Enhanced Oil Recovery Fluids**

Intermittent or continuous dosing can be applied to the fluid to achieve a concentration of 50 to 12,500 ppm product for effective microbial control.

**Injection Waste Fluids**

Add 250 to 12,500 ppm product to the waste fluid prior to or at injection into an approved disposal well.

**Oil and Gas Water Storage and Transmission Systems**

Add 1000 to 12,500 ppm product to the water storage or transmission system as needed to maintain microbial control.

**Gas Storage Wells and Systems**

Individual injection wells should be treated to produce a concentration of 1,250 to 12,500 ppm product based on the water volume present in the system. Yearly treatments should be applied to maintain effective microbial control. Individual drips should contain 200 to 2000 ppm as needed to maintain microbial control.

**Hydrotesting**

Water used to hydrotest pipelines or vessels should contain 250 to 10,000 ppm product.

**Pipeline Pigging and Scraping Operations**

Add the appropriate volume of product to achieve a concentration of 2,500 to 25,000 ppm product in the water slug applied immediately following the scraper.



9/9

AQUCAR™ GA 20BF Water Treatment Microbiocide  
Master Label  
September, 2014

**Hydrocarbon Production, Storage and Transmission Systems**

Add via direct injection to achieve a concentration of 1,000 to 12,500 ppm product based on the volume of water in the system. For pipeline uses, after application and complete distribution throughout the pipeline, a detectable amount of residual product should be present at the back end of the pipeline system.

**Notice:** Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the Directions. SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

NET WT:

Lot:

Produced For *(used when manufactured by contract manufacturer)*

Dow Diamond™  
**THE DOW CHEMICAL COMPANY**  
**Midland, Michigan 48674**  
**989-636-4400**

MADE IN U.S.A.

™Trademark of the Dow Chemical Company ("Dow") or an affiliated company of Dow