

464-8128

12/29/2009

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U.S. ENVIRONMENTAL PROTECTION AGENCY

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

NOTICE OF PESTICIDE:

[x] Registration
Reregistration

(under FIFRA, as amended)

EPA Reg. Number: 464-8128

Date of Issuance: DEC 29 2009

Term of Issuance: Conditional

Name of Pesticide Product: AQUICAR GA 23 SB Water Treatment Microbiocide

Name and Address of Registrant (include ZIP Code):

The Dow Chemical Company
1803 Building
Midland, MI 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.

This product is conditionally registered in accordance with FIFRA sec 3(c)(7)(A) provided that you:

- 1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA section 4.
2. Make the labeling changes listed below before you release the product for shipment:
a. Revise the "EPA Registration Number to read, "EPA Reg. No. 464-8128".

Signature of Approving Official:

Marshall Swindell
Product Manager Team-33
Regulatory Management Branch I
Antimicrobials Division (7510P)

[Handwritten signature of Marshall Swindell]

Date:

DEC 29 2009

2009

LABELING:

b. The Precautionary Statements must state:

"Keep Out of Reach of Children"

"Corrosive.\* Causes irreversible eye damage and skin burns. Harmful if inhaled. May be fatal if swallowed. Harmful if absorbed through skin. Do not get in eyes, on skin or on clothing. Wear protective eyewear. Wear coveralls over long-sleeved shirt and long pants, socks, chemical-resistant footwear and chemical resistant gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the restroom. Remove and wash contaminated clothing before reuse. Avoid breathing (dust, vapor or spray mist). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals."

c. In the "First Aid" section, arrange the columns to appear as follow:

If in Eyes:

If on Skin:

If Swallowed:

If Inhaled:

d. Your Storage and Disposal language must be revised to comply with the Container Rule per 2007-4. Based on PR Notice 2007-4, the language must incorporate residue removal instructions that are comparable to the container type.

e. The Storage Stability and Corrosion study must be submitted within one (1) from the date of the Notice of Registration. Refer the enclosed copies of the product chemistry and acute toxicity reviews further comments.

3. Submit two (2) copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

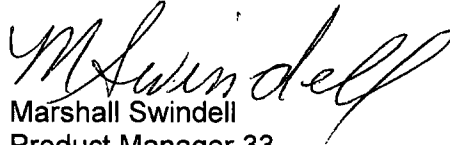
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**Page 3**  
**File Symbol 464-8128**

A stamped copy of the "accepted" label is enclosed for your records.

If you have any questions concerning this letter, please contact Martha Terry at 703) 308-6217.

Sincerely,



Marshall Swindell  
Product Manager 33  
Regulatory Management Branch I  
Antimicrobials Division (7510P)

Enclosure

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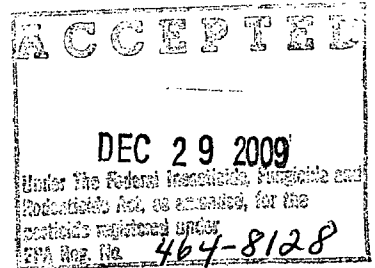
LEFT PANEL

**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, long-sleeve shirt, long pants, shoes, socks, chemical-resistant gloves (butyl or nitrile gloves) and chemical resistant apron.

Wash thoroughly with soap and water after handling.

Remove contaminated clothing and wash before reuse.

**PHYSICAL AND CHEMICAL HAZARDS**

Extremely Flammable! Keep away from heat, sparks and open flame.

**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.

**STORAGE AND HANDLING**

AQUCAR GA 23 SB Water Treatment Microbiocide is incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. AQUCAR GA 23 SB Water Treatment Microbiocide can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. 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).

Open the AQUCAR GA 23 SB Water Treatment Microbiocide container in a well ventilated area. When opening a container in a confined space where ventilation is not adequate, use a MSHA/NIOSH approved air purifying respirator equipped with an organic vapor cartridge. Store any unused product in the original container and reseal the inner plastic liner tightly and ensure the lid of the container is resealed.

**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.

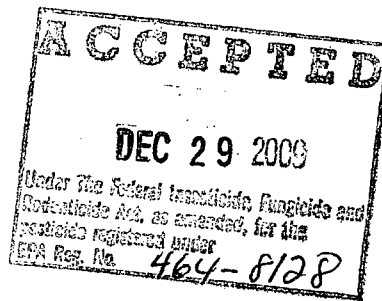
BEFORE HANDLING OR USING THIS PRODUCT, SEE YOUR EMPLOYER AND READ CURRENT MATERIAL SAFETY DATA SHEET.

**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.

**STORAGE AND HANDLING**

**CONTAINER DISPOSAL:** 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.



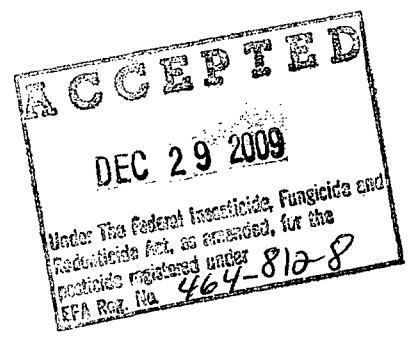
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FRONT PANEL

# AQUCAR™ GA 23 SB Water Treatment Microbiocide

A MICROBIOCIDE FOR USE IN CONTROLLING BACTERIA INCLUDING SULFATE-REDUCING BACTERIA AND SLIME-FORMING BACTERIA IN OIL WELL DRILLING, OIL FIELD PROCESSING APPLICATIONS, OIL FIELD WATER SYSTEMS, OIL AND GAS PRODUCTION, 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, AND RELATED REFINERY AND OIL FIELD CLOSED, INDUSTRIAL RECIRCULATING WATER HANDLING SYSTEMS AND AIR WASHER AND RECIRCULATING COOLING WATER SYSTEMS.

Active Ingredient: Glutaraldehyde	23%
Inert Ingredients:	77%
Total	100%



**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

**FIRST AID**

**If swallowed:**

- If the person is fully alert and cooperative, have the person rinse mouth with plenty of water.
- In cases of ingestion have the patient drink 4 to 10 ounces (120-300 mL) of water or milk.
- Do not induce vomiting. Do not attempt mouth rinse if the person has respiratory distress, altered mental status, or nausea and vomiting.
- Call a physician and/or transport to emergency facility immediately. See Note to Physician.

**If in eyes:**

- 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:**

- 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.

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SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

Produced for:

EPA Reg. No. 464-XXX  
EPA Est. No. 14802-TX-1  
(A 04/09)  
PE0709



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

®TM Trademark of The Dow Chemical Company  
("Dow") or an affiliated company of Dow  
Made in U.S.A.

Net Contents:	lbs.	CONTAINER SIZE	SHIPPING NAME	CORROSSIVE SOLID, ACIDIC ORGANIC NOS (CONTAINS GLUTARALDEHYDE)	
		GALLONS		ID NUMBER UN 3261	PG II
		lbs. NET WEIGHT	HAZARD CLASS 8		

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

**ACCEPTED**  
**DEC 29 2009**  
 Under The Federal Insecticide, Fungicide and  
 Rodenticide Act, as amended, for the  
 pesticide registered under  
 EPA Reg. No. 464-8128

RIGHT PANEL

**DIRECTIONS FOR USE**

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

**WATER FLOODS**

AQUCAR GA 23 SB 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 217 to 10,870 ppm of AQUCAR GA 23 SB Water Treatment Microbiocide to the system (1.8 to 90.7 lbs AQUCAR GA 23 SB Water Treatment Microbiocide per 1,000 gallons flood water). Repeat until control is achieved.

**Subsequent Dose:** When microbial control is evident, add 43 to 10,870 ppm AQUCAR GA 23 SB Water Treatment Microbiocide (0.36 to 90.7 lbs. AQUCAR GA 23 SB Water Treatment Microbiocide per 1,000 gallons flood water) to the system weekly, or as needed to maintain control.

**FRAC FLUIDS**

AQUCAR GA 23 SB Water Treatment Microbiocide reduces bacterial contamination and degradation of fracturing fluids and gels used in oil and gas well stimulations. Add AQUCAR GA 23 SB 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 23 SB Water Treatment Microbiocide should be added at a rate of 217 to 10,870 ppm (18 to 907 lbs per 10,000 gallons) depending on the degree of bacterial fouling in the source water.

**DRILLING, COMPLETION, AND WORKOVER FLUIDS**

AQUCAR GA 23 SB Water Treatment Microbiocide should be added to a drilling fluid system at a point of uniform mixing such as the circulating mud tank.

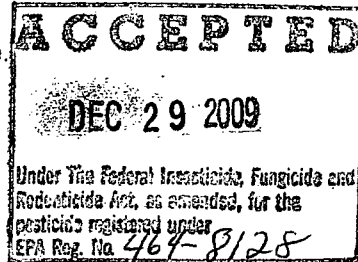
**Initial Treatment:** Add 109 to 2174 ppm AQUCAR GA 23 SB Water Treatment Microbiocide (3.8 to 76 lbs. AQUCAR GA 23 SB Water Treatment Microbiocide per 100 barrels of fluid) to a freshly prepared fluid depending on the severity of contamination.

**Maintenance Dosage:** Maintain a concentration of 109 to 2174 ppm AQUCAR GA 23 SB Water Treatment Microbiocide by adding 3.8 to 76 lbs of AQUCAR GA 23 SB Water Treatment Microbiocide per 100 barrels of additional fluid, or as needed, depending on the severity of contamination.

**PACKER FLUIDS**

AQUCAR GA 23 SB Water Treatment Microbiocide should be added to a packer fluid at a point of uniform mixing such as a circulating holding tank. Add 109 to 1,304 ppm AQUCAR GA 23 SB Water Treatment Microbiocide (3.8 to 46 lbs AQUCAR GA 23 SB 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





**GAS STORAGE WELLS AND SYSTEMS**

Individual injection wells should be treated with sufficient quantity of AQUICAR GA 23 SB Water Treatment Microbiocide to produce a concentration of 1087 to 10,870 ppm AQUICAR GA 23 SB 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 AQUICAR GA 23 SB Water Treatment Microbiocide to produce a concentration of 435 to 4,348 ppm AQUICAR GA 23 SB Water Treatment Microbiocide when diluted by the water present in the drip. Injections should be repeated yearly, or as needed to maintain control.

**PIPELINE PIGGING AND SCRAPING OPERATIONS**

Add AQUICAR GA 23 SB 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 AQUICAR GA 23 SB Water Treatment Microbiocide should be added to produce a concentration of 0.4% to 4.3% (3.6 to 36 lbs AQUICAR GA 23 SB Water Treatment Microbiocide per 100 gallons water), depending on the length of the pipeline and the severity of biofouling.

**AIR WASHERS AND RECIRCULATING COOLING WATER SYSTEMS**

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

AQUICAR GA 23 SB 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 AQUICAR GA 23 SB Water Treatment Microbiocide. Under these conditions, blowdown should be discontinued for up to 24 hours.

**INTERMITTENT (SLUG DOSE) METHOD**

**Initial Dose:** When the system is noticeably fouled, apply 217 to 435 ppm of AQUICAR GA 23 SB Water Treatment Microbiocide to the system (1.8 to 3.6 lbs of AQUICAR GA 23 SB 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 87 to 217 ppm of AQUICAR GA 23 SB Water Treatment Microbiocide to the system weekly (0.7 to 1.8 lbs of AQUICAR GA 23 SB Water Treatment Microbiocide per 1,000 gallons of water in the system) 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 217 to 435 ppm of AQUICAR GA 23 SB Water Treatment Microbiocide to the system (1.8 to 3.6 lbs of AQUICAR GA 23 SB Water Treatment Microbiocide per 1,000 gallons of water in the system).

**Subsequent Dose:** Maintain this treatment level by starting a continuous feed of 43 to 217 ppm of AQUICAR GA 23 SB Water Treatment Microbiocide to the system per day (0.36 to 1.8 lbs of AQUICAR GA 23 SB Water Treatment Microbiocide per 1,000 gallons of water in the system). Badly fouled systems must be cleaned before treatment is begun.

