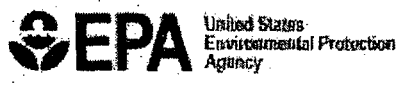


464-714

12/23/2008

1/4

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



Office of Pesticide Programs

The Dow Chemical Company
1803 Building
Midland, Mi 48674

DEC 23 2008

Attention: Maureen Miksztal
Senior Regulatory Specialist

Subject: AQUICAR™ GA 30 LT Water Treatment Microbiocide
EPA Registration No. 464-714
Amendment Dated November 24, 2008

The amendment, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable.

- Minor Labeling Changes to the Directions For Use

A stamped copy of the "accepted" labeling 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 1
Antimicrobials Division (7510P)

Enclosure

**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 the 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.

PHYSICAL AND CHEMICAL HAZARDS

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

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 30LT Water Treatment Microbiocide is incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. AQUCAR GA 30LT 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 -45.4°F (-43°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.

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 USING THIS PRODUCT, SEE YOUR EMPLOYER AND READ THE MATERIAL SAFETY DATA SHEET



NOTICE

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

33133-12/02/2008

AQUCAR™ GA 30LT

Water Treatment Microbioc

A MICROBIOCIDAL FOR USE IN CONTROLLING BACTERIA INCLU...
REDUCING BACTERIA AND SLIME-FORMING BACTERIA IN OIL WELL
FIELD PROCESSING APPLICATIONS, OIL FIELD WATER SYSTEMS,
PRODUCTION AND TRANSMISSION PIPELINES AND SYSTEMS, AND
FIELDS AND EQUIPMENT; SUCH AS, STEAM-INJECTION WATER HO
FLOOD WATER, FRACTURING FLUIDS, INJECTION WATER, HOLDING
DISPOSAL-WELL WATER, WATER HOLDING TANKS, FUEL STORAG
RELATED REFINERY AND OIL FIELD CLOSED, INDUSTRIAL RECIRCUL
HANDLING SYSTEMS.

Active Ingredient: Glutaraldehyde 30.0%
Inert Ingredients: 70.0%
100.0%

**KEEP OUT OF REACH OF CHILDREN
DANGER**

FIRST AID

ACCEPTED
with COMPTON
EPA LOWE

If swallowed:

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

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 for 15 minutes
- Obtain prompt medical consultation, preferably from an ophthalmologist

If on skin or clothing:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes under EP
- Call CHEMTREC 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 CHEMTREC or a doctor for further treatment advice.

NOTE TO PHYSICIAN: Aspiration may cause lung damage. Probable mucous membrane irritation. Have the MSDS and, if available, the product container or label with you w

poison control center or a doctor, or going for treatment.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

Produced for:

EPA Reg. N
EPA Est. N



The Dow Chemical Company

Midland, Michigan 48674 U.S.A.
(989)636-4400

®/™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

Made in U.S.A.

Net Contents: 55 gallons

CONTAINER SIZE 55 GALLONS	SHIPPING NAME	FLAMMABLE LIQUID, CORROSIVE (CONTAINS ACETONE, GLUTARALDEHYDE)	
448 lb NET WEIGHT	HAZARD CLASS 3,8	ID NUMBER UN 2924	P

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

AQUCAR™ GA 30LT

Water Treatment Microbiocide

A MICROBICIDE 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 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.

Active Ingredient: Glutaraldehyde 30.0%
Inert Ingredients: 70.0%
100.0%

It is a violation of Federal Law
WATER FLOODS

AQUCAR GA 30LT Water Treat uniform mixing.

Initial Treatment: When the 30LT Water Treatment Microbi Treatment Microbiocide per 1,000 Subsequent Dose: When micr Treatment Microbiocide (.033 to 1 gallons flood water) to the system
FRAC FLUIDS

AQUCAR GA 30LT Water Treat fracturing fluids and gels used in Microbiocide to the frac water st is being pumped down-hole.

Dose Range: AQUCAR GA 30L 5000 ppm (0.9 - 44.3 gals per source water.

DRILLING, COMPLETION

AQUCAR GA 30LT Water Treat uniform mixing such as the circ. GA 30LT Water Treatment Micr Microbiocide per 100 barrels i contamination. Maintenance Do Water Treatment Microbiocide by Microbiocide per 100 barrels contamination.

PACKER FLUIDS

AQUCAR GA 30LT Water Tre uniform mixing such as a circul Treatment Micro-biocide (0.38 to barrels of fluid) to a freshly prep; packer fluid in the wall between t

OIL AND GAS PRODUCT

AQUCAR GA 30LT Water Tre transmission line via direct inj distribution of AQUCAR GA 30L surface by adding a sufficient an end of the pipeline system. Crit and/or reduced corrosion rates. 30LT Water Treatment Microc concentration in the solvent shc based on the volume of water in to maintain control.

HYDROTESTING

Water used to hydrotest pipeline Treatment Microbiocide (0.17 to 1,000 gallons water), depending

PIPELINE PIGGING AND

Add AQUCAR GA 30LT Water scraper (ideally this water volum trailing pig). Sufficient AQUCAR concentration of 0.15 to 1.7% (0. 100 gallons water), depending or

S

PESTICIDE DISPOSAL: D Open dumping is prohibite pesticide, spray mixture or r disposed of by use accordi Environmental Control Agen Regional Office for guidance

CONTAINER DISPOSAL equivalent). Then offer for sanitary landfill, or other p Containers: May be inciner burned, stay out of smoke i on or near metal containers.

RY STATEMENTS

AND DOMESTIC ANIMALS

NGER

EACH OF CHILDREN

image. Causes skin burns. Harmful if harmful if absorbed through the skin. Contact may cause allergic reactions in signs and symptoms in hyper-reactive

butyl or nitrile gloves. after handling. Wash before reuse.

CHEMICAL HAZARDS

Heat, sparks and open flame.

ENTAL HAZARDS

Charge effluent containing this product into rivers or other waters unless in accordance with the National Discharge Elimination System. The authority has been notified in writing prior to discharging this product to sewer systems. For more information, contact the local, state, or Federal Office of the EPA.

AND HANDLING

Microbiocide is incompatible with construction such as steel, galvanized steel, or copper. AQUCAR GA 30LT Water Treatment Microbiocide is stored in baked phenolic-lined steel, forced epoxy-plastic equipment. This equipment should be stored at 43°C. Therefore, unless the storage equipment and insulation may be required. If temperatures should be avoided. For long-term storage, temperatures of up to 100°F are permitted. Maximum storage temperature is 100°F. A centrifugal pump is suggested for use with less steel with TEFLON® Polymer is recommended.

vapors are irritating to the nose or eyes, protection (MSHA/NIOSH approved air purifying respirator with organic vapor cartridge) may be required.

NTY AND DISCLAIMER

This product is not to be used for purposes stated on this label when used in conditions of use. THE WARRANTIES MADE BY THE MANUFACTURER ARE MADE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PURPOSE AND ALL OTHER EXPRESS WARRANTIES.

SEE YOUR EMPLOYER AND READ THE

Do not mix with Food, clothing

KEEP OUT OF REACH OF CHILDREN
DANGER

FIRST AID

ACCEPTED
with COMMENTS
EPA Letter Dated:
DEC 23 2008

Amended, for the pesticide, registered under EPA Reg. No. 464-714

If swallowed:

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

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 the flushing.
- Obtain prompt medical consultation, preferably from an ophthalmologist.

If on skin or clothing:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call CHEMTREC 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 CHEMTREC 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

Produced for: EPA Reg. No. 464-714
EPA Est. No. 464-WV-1
(1/12/08)
PE1208



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: 55 gallons

CONTAINER SIZE 55 GALLONS	SHIPPING NAME	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (CONTAINS ACETONE, GLUTARALDEHYDE)	
448 lb NET WEIGHT	HAZARD CLASS 3.8	ID NUMBER UN 2924	PGII

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

4/4

AQUCAR™ GA 30LT

DIRECTIONS FOR USE

Treatment Microbiocide

FOR USE IN CONTROLLING BACTERIA INCLUDING SULFATE-A AND SLIME-FORMING BACTERIA IN OIL WELL DRILLING, OIL APPLICATIONS, OIL FIELD WATER SYSTEMS, OIL AND GAS TRANSMISSION PIPELINES AND SYSTEMS, AND GAS STORAGE TANKS; SUCH AS, STEAM-INJECTION WATER HOLDING TANKS, STEAM-INJECTION WATER HOLDING TANKS, HOLDING POND WATER, WATER HOLDING TANKS, FUEL STORAGE TANKS AND OIL FIELD CLOSED, INDUSTRIAL RECIRCULATING WATER

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

WATER FLOODS

AQUCAR GA 30LT 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 167 to 8,333 ppm AQUCAR GA 30LT Water Treatment Microbiocide to the system (0.17 to 8.4 gallons AQUCAR GA 30LT Water Treatment Microbiocide per 1,000 gallons flood water). Repeat until control is achieved.
Subsequent Dose: When microbial control is evident, add 33 to 8,333 ppm AQUCAR GA 30LT Water Treatment Microbiocide (0.33 to 8.4 gallons AQUCAR GA 30LT Water Treatment Microbiocide per 1,000 gallons flood water) to the system weekly, or as needed to maintain control.

FRAC FLUIDS

AQUCAR GA 30LT Water Treatment Microbiocide reduces bacterial contamination and degradation of fracturing fluids and gels used in oil and gas well stimulations. Add AQUCAR GA 30LT 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 30LT 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 30LT 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 90 to 1,665 ppm AQUCAR GA 30LT Water Treatment Microbiocide (0.38 to 7.1 gallons AQUCAR GA 30LT 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 90 to 1,665 ppm AQUCAR GA 30LT Water Treatment Microbiocide by adding 0.38 to 7.1 gallons of AQUCAR GA 30LT Water Treatment Microbiocide per 100 barrels of additional fluid, or as needed, depending on the severity of contamination.

PACKER FLUIDS

AQUCAR GA 30LT Water Treatment Microbiocide should be added to a packer fluid at a point of uniform mixing such as a circulating holding tank. Add 90 to 1,005 ppm AQUCAR GA 30LT Water Treatment Microbiocide (0.38 to 4.3 gallons AQUCAR GA 30LT 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 well between the casing and production tube.

OIL AND GAS PRODUCTION AND TRANSMISSION PIPELINE SYSTEMS

AQUCAR GA 30LT Water Treatment Microbiocide should be added to an oil/gas production or transmission line via direct injection. The application should be conducted to ensure maximum distribution of AQUCAR GA 30LT 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 30LT Water Treatment Microbiocide with an appropriate solvent immediately before use. The concentration in the solvent should not fall below an active concentration range of 840 to 8340 ppm based on the volume of water in the pipeline. Injections to the system should be weekly, or as needed to maintain control.

HYDROTESTING

Water used to hydrotest pipelines or vessels should contain 165 to 6,660 ppm AQUCAR GA 30LT Water Treatment Microbiocide (0.17 to 6.7 gallons AQUCAR GA 30LT 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 30LT 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 30LT Water Treatment Microbiocide should be added to produce a concentration of 0.15 to 1.7% (0.15 to 1.7 gallons AQUCAR GA 30LT Water Treatment Microbiocide per 100 gallons water), depending on the length of the pipeline and the severity of biofouling.

Ingredient: Glutaraldehyde 30.0%
Ingredients: 70.0%
..... 100.0%

OUT OF REACH OF CHILDREN
DANGER
FIRST AID

ACCEPTED with COMMENTS
EPA Letter Dated: DEC 23 2008

See a doctor immediately for treatment advice.
VOMITING.
Go to drink.

and continuously with flowing water for at least 30 minutes.
Rinse eyes after the first 5 minutes and continue the flushing until the water runs clear. Seek medical consultation, preferably from an ophthalmologist.

INGESTION:
Remove contaminated clothing.
Rinse mouth immediately with plenty of water for 15-20 minutes.
See a doctor for treatment advice.

INHALATION:
Move to fresh air.
If breathing is difficult, call 911 or an ambulance, and then give artificial respiration, if possible.
See a doctor for further treatment advice.

SKIN CONTACT:
Wash with plenty of water. If irritation persists, see a doctor.

ADDITIONAL INFORMATION:
AQUCAR GA 30LT Water Treatment Microbiocide is a Fungicide, Insecticide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 464-714

PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS
EPA Reg. No. 464-714
EPA Est. No. 464-WV-1
(1/12/08)
PE1208

Dow Chemical Company
P.O. Box 17000, Midland, TX 79716-7000
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The Dow Chemical Company
an affiliated company of Dow

gallons

SHIPPING NAME	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (CONTAINS ACETONE, GLUTARALDEHYDE)	
HAZARD CLASS 3,8	ID NUMBER UN 2924	PGII

EMERGENCY endangering life or property involving this product, 636-4400.

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: 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.