BIOBAN™ GA 25 Antimicrobial

A highly effective Microbiocide for use in controlling Bacteria including Slime Forming Bacteria and Sulfate -Reducing Bacteria, Fungi (Yeast and Molds) and Algae in Reverse Osmosis Membranes, Pigments and Filler Slurries for Paper and Paperboard, Water Based Coatings, Aqueous Metalworking Fluids and for use by Manufacturers as a Preservative in Industrial, Institutional and Consumer Processes and Products, and for use in Preserving Aqueous-Based Solutions, Slurries, and Emulsions.

Active Ingredient: Glutaraldehyde	**25%**
Inert Ingredient(s):	**75%**
Total	**100%**

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:	• 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.

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 to use when produced by contract manufacturer)*

E.P.A. Registration No. 464-688
E.P.A. Est. 83434-IL-001

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

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Made in U.S.A.

NET CONTENTS: 5 gallons
NET WT: 44 lb / 20 kg
LOT NO:

Department of Agriculture
STATE OF HAWAII
LICENSED
PERIOD 2015-2017 LIC. NO.
9197.336
Disc.

Department of Agriculture
STATE OF HAWAII
LICENSED
PERIOD 2012-2014 LIC. NO.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER
KEEP OUT OF REACH OF CHILDREN

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.
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

BIOBAN GA 25 Antimicrobial is incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. BIOBAN GA 25 Antimicrobial can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about 14° F (-10° 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 container (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.

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.

DIRECTIONS FOR USE

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

PIGMENTS AND FILLER SLURRIES FOR PAPER AND PAPERBOARD
(For use in food and non-food contact pigments and filler slurries)
Use from 0.2 to 1.2 lbs. of BIOBAN GA 25 Antimicrobial per 1,000 lbs. dry powder to produce a concentration of 200 to 1200 ppm as product (based on slurry solids) in the mixed slurry.

WATER BASED COATINGS
NOTE: For use in non-food contact coatings only.
Use from 0.2 to 1.2 lbs. of BIOBAN GA 25 Antimicrobial per 1,000 lbs. dry powder to produce a concentration of 200 to 1200 ppm as product (based on slurry solids) in the mixed slurry.

AQUEOUS METALWORKING FLUIDS
BIOBAN GA 25 Antimicrobial 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 4.8 to 14.4 fluid ounces (100 to 300 ppm active) of BIOBAN GA 25 Antimicrobial per 100 gallons of metalworking fluid to the system. Repeat until control is achieved.
Subsequent Dose: When microbial control is evident, add 1.9 to 9.6 fluid ounces (40 to 200 ppm active) of BIOBAN GA 25 Antimicrobial per 100 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 your DOW representative to provide 2.4 to 14.4 fluid ounces (50 to 300 ppm active) of BIOBAN GA 25 Antimicrobial per 100 gallons of diluted lubricant.

GENERAL PRESERVATIVE USE
BIOBAN GA 25 Antimicrobial 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 BIOBAN GA 25 Antimicrobial to the product formulation at a rate of 0.04% to 0.4% based on the water content of the product (0.4 to 4.0 lbs BIOBAN GA 25 Antimicrobial per 1,000 lbs water content). Mix uniformly.

PRESERVATIVE FOR CONCENTRATES
For use in concentrates where effective preservation is needed after dilution, add BIOBAN GA 25 Antimicrobial to the product formulation at a rate such that the diluted end-use product will contain 0.04% to 0.40% BIOBAN GA 25 Antimicrobial.
At no time during the preservation process should the level of BIOBAN GA 25 Antimicrobial exceed 6.6%.

REVERSE OSMOSIS MEMBRANES
For effective preservation of reverse osmosis elements (where approved for compatibility by membrane manufacturer), immerse elements in a tank containing 0.4% to 4.0% BIOBAN GA 25 Antimicrobial. BIOBAN GA 25 Antimicrobial 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 0.4% to 4.0% BIOBAN GA 25 Antimicrobial to the tank in the circulating system. Maintain the concentration of BIOBAN GA 25 Antimicrobial by periodic addition to counteract any system leakage.

CONCRETE ADMIXTURES
For effective preservation of concrete admixtures, add BIOBAN GA 25 Antimicrobial to the product formulation at a rate of 4,000 to 16,000 ppm based on the weight of the admixture (4.0 to 16.0 lbs BIOBAN GA 25 Antimicrobial per 1,000 lbs. concrete admixture). Mix uniformly.

Revised label date: • 2/15/12 • RA4068