

## **BIOBAN™ GA 45 Antimicrobial SOLUTION**

A MICROBIOCIDAL FOR USE IN CONTROLLING BACTERIA, FUNGI AND YEAST IN  
AQUEOUS METAL WORKING FLUIDS.

### **GUARANTEE:**

Glutaraldehyde..... 45.0%

**REGISTRATION NO.** 25629  
PEST CONTROL PRODUCTS ACT

### **COMMERCIAL**

### **DANGER**

**POISON** {Poison Logo} **CORROSIVE** {Corrosive Logo}

READ THE LABEL BEFORE USING

Dow Chemical Canada ULC  
4445 Marie-Victorin Blvd  
Varenes QC J3X 1T3  
513-339-3711

® TM Trademark of The Dow Chemical Company (“Dow”) or an affiliated company of Dow

**IN CASE OF AN EMERGENCY** endangering life or property involving this product, call  
collect, 519-339-3711

### **NET CONTENTS:**

Made in USA

## **PRECAUTIONS**

### **HAZARDS TO HUMANS**

#### **DANGER**

#### **KEEP OUT OF REACH OF CHILDREN**

CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE. CAUSES SKIN BURNS. HARMFUL IF INHALED. HARMFUL OR 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. DO NOT INHALE FUMES OR VAPOR. DO NOT SWALLOW.

Wear face shield, goggles, and coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, socks and chemical-resistant footwear during mixing, loading, application, clean-up and repair. Wash thoroughly with soap and water after handling. Use only in well ventilated area. Remove contaminated clothing and shoes and wash them before reuse.

#### **ENVIRONMENTAL HAZARDS**

This product is toxic to aquatic organisms. It is not to be used in circumstances that would cause or allow it to enter lakes, streams, ponds, estuaries, oceans or other waters in contravention of federal or provincial regulatory requirements. The requirements of applicable laws should be determined before using the product. DO NOT discharge effluent containing this product into sewer systems, lakes, streams, ponds, estuaries, oceans or other waters.

#### **FIRST AID**

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 30 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or 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 centre or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

#### **TOXICOLOGICAL INFORMATION**

Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

## **STORAGE AND HANDLING**

To prevent contamination store this product away from food and feed. BIOBAN™ GA 45 Antimicrobial solutions are incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. These solutions can be stored and handled in baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about - 17° C. Therefore, unless the storage tank is inside or under ground, 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 38°C can be tolerated but the preferred maximum storage temperature is about 27°C. A stainless steel centrifugal pump is suggested for transfer service. Spiral wound stainless steel with TEFLON® is suitable for gaskets and packing.

## **DISPOSAL:**

1. Triple or pressure-rinse the empty container. Add the rinsings to the treatment site.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

## **DIRECTIONS FOR USE**

DO NOT open pour more than 20 L of concentrate per day. Use an automatic addition system if using more than 20 L of concentrate per day.

DO NOT contaminate irrigation or drinking water suppliers or aquatic habitats by cleaning of equipment or disposal of wastes.

DO NOT discharge effluent containing this product into sewer systems, lakes, streams, ponds, estuaries, oceans or other waters.

## **AQUEOUS METALWORKING FLUIDS**

Compatibility of BIOBAN™ GA 45 Antimicrobial with a sterile sample of metalworking fluid should be checked for background demand. BIOBAN™ GA 45 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 Treatment:** When the system is noticeably fouled apply 1 to 3 litres of BIOBAN™ GA 45 Antimicrobial per 5000 litres of metalworking fluid to the system. Repeat until control is achieved.

**Subsequent Dose:** When microbial control is evident, add 0.4 to 2 litres of BIOBAN™ GA 45 Antimicrobial per 5000 litres of metalworking fluid to the system weekly, or as needed to maintain control. Badly fouled systems must be cleaned before treatment is begun.

#### **WATER BASED COATINGS**

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

Use from 0.11 to 0.7 grams of BIOBAN™ GA 45 Antimicrobial per Kg dry powder to produce a concentration of 111 to 667 ppm as product (based on slurry solids) in the mixed slurry. When used as an in-can preservative in which paints may be applied in a residential setting, the maximum application rate for paints is 100 ppm