



# Product Data Sheet MICROBIOCIDES ACUCAR GA 45

## DESCRIPTION

Acucar GA 45 Water Treatment Microbiocide is a microbiocide for use in controlling slime forming bacteria, sulfate-reducing bacteria and algae in recirculating water cooling tower systems. This product is a concentrated aqueous blend of glutaraldehyde for effective control of microorganisms.

## APPLICATION

Acucar GA 45 is intended for use in industrial process water cooling towers, air conditioning cooling towers, and evaporative condensers. It will prevent microbiologically caused fouling of cooling tower systems and evaporative condensers by controlling the growth of algae and slime-forming bacteria on internal components. Acucar GA 45 is effective over both a wide pH range and temperature range. In addition, Acucar GA 45 is compatible with all types of corrosion and scale inhibitors.

## PHYSICAL PROPERTIES

Appearance.....Colorless liquid  
pH at 25° C.....3.7 to 4.5  
Specific Gravity at 20/204°C .....1.118  
Vapor Pressure at 20°C .....14.7 mm. Hg  
Freezing Point .....17°C  
Density .....9.32

## DOSAGE

Acucar GA 45 Water Treatment Microbiocide should be added to a water treatment system at a 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 Acucar 545. 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 12.7-25.5 fl. oz. of Acucar GA 45 per 1,000 gallons of water in the system. Repeat until control is achieved. Subsequent Dose: When microbial control is evident, add 5.1-12.7 fl. oz. of Acucar GA 45 per 1,000 gallons of water in the system weekly, 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 12.7-25.5 fl. oz. of Acucar GA 45 per 1,000 gallons of water in the system.

Subsequent Dose: Maintain this treatment level by starting a continuous feed of 2.6-12.7 fl. oz. of Acucar GA 45 per 1,000 gallons water in the system per day. Badly fouled systems must be cleaned before treatment is begun.

## HANDLING & PRECAUTIONS

Acucar GA 45 solutions are corrosive to many commonly used materials of construction, such as steel, galvanized iron, aluminum, tin, and zinc. These solutions can be stored and handled in polyethylene, baked-phenolic-lined steel, stainless steel, or reinforced epoxy plastic equipment. This product freezes at about -17°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 a month), temperatures up to 100°F. can be tolerated but the preferred maximum storage temperature is about 80°F. A stainless steel centrifugal pump is suggested for transfer service. Asbestos is suitable for gaskets and packing.

**DANGER:** Corrosive. Causes burns. Causes eye damage and skin irritation. Avoid breathing vapors. Do not get in eyes, on skin or clothing. May be absorbed through skin. Wear goggles or face shield and rubber gloves when handling. May be harmful or fatal if swallowed. Avoid contamination of food. For additional precautionary information, see the container label.

## PACKAGING

Acucar GA 45 liquid is available in:  
55-gallon drums .....net wt. 504 lbs.