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PM 31 10352-22

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BEFORE HANDLING OR USING, READ AND UNDERSTAND CURRENT UNION CARBIDE MATERIAL SAFETY DATA SHEET FOR THIS PRODUCT.

**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. Harmful if swallowed. Harmful if absorbed through skin. May cause skin sensitization.

Do not get in eyes, on skin, on clothing. Avoid breathing vapor. Do not swallow.

Wear goggles, protective clothing, and rubber 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 public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

PHYSICAL PROPERTIES

Specific Gravity at 20/20°C . . . 1.118 Solubility in Water at 20°C . . . Complete
Vapor Pressure at 20°C . . . 14.7 mm Hg Solubility of Water in at 20°C Complete
Freezing Point -17°C pH at 25°C 3.1 to 4.5

STORAGE AND HANDLING

AQUICAR® 545 Water Treatment Microbiocide 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 baked phenolic-lined steel, polyethylene, stainless steel, or reinforced epoxy-plastic equipment. This product freezes at about 1°F (-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 1 month), temperatures of up to 100°F (37.8°C) can be tolerated but the preferred maximum storage temperature is about 60°F (28.7°C).

A stainless steel centrifugal pump is suggested for transfer service. Spiral wound stainless steel with TEFLON® is suitable for gaskets and packing.

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 insect 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 procedure 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 use for food or feed purposes.



**545
WATER
TREATMENT
MICROBICIDE**

A MICROBICIDE FOR USE IN CONTROLLING SLIME FORMING BACTERIA, SULFATE-REDUCING BACTERIA AND ALGAE IN AIRWASHERS, RECIRCULATING WATER COOLING TOWERS AND SYSTEMS, INCLUDING PASTEURIZER COOLING WATER SYSTEMS, RETORT WATER SYSTEMS, INDUSTRIAL CLOSED RECIRCULATING PROCESS WATER SYSTEMS AND WASTEWATER SYSTEMS INCLUDING WASTEWATER SLUDGE AND HOLDING TANKS.

ACCEPTED
APR 20 1993
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended for the pesticide registered under EPA Reg. No. 10352-22

Active ingredient: Glutaraldehyde 45.0%
Inert ingredients: 55.0%
100.0%

**KEEP OUT OF REACH OF CHILDREN
DANGER**

STATEMENT OF PRACTICAL TREATMENT

- IF IN EYES:** Immediately flush with plenty of water for at least 15 minutes. Get immediate medical attention.
 - IF ON SKIN:** Immediately wash with plenty of soap and water. Get medical attention.
 - IF INHALED:** Remove to fresh air. If breathing is difficult, administer oxygen. If symptoms persist, call a physician.
 - IF SWALLOWED:** DO NOT INDUCE VOMITING. Do not give anything to drink. Seek medical advice with urgency.
- Note to physician: Aspiration may cause lung damage. Probable mucosal damage may contraindicate the use of gastric lavage.

See side panel for additional precautionary statements.

**UNION CARBIDE CHEMICALS AND PLASTICS COMPANY INC.
SPECIALTY CHEMICALS DIVISION**

39 Old Ridgebury Road, Denbury, CT 06817-0001 EPA Est. No. 10352-WV-2
EPA Reg. No. 10352-22 UCC-L90226 (C 3/93)
AQUICAR® is a registered trademark of Union Carbide Corporation Made in USA
Net Contents 504 lbs. (228.6 kg) PEO293

DOT SHIPPING NAME	CORROSIVE LIQUID, N.O.S. (CONTAINS GLUTARALDEHYDE)	UN 1780 ID NUMBER	90226	CONTAINER SIZE 55 GALLONS
ERG SHIPPING NAME	CORROSIVE LIQUID, N.O.S. (CONTAINS GLUTARALDEHYDE)	1780 UN NUMBER	PRODUCT CODE	504 POUNDS NET WEIGHT

EMERGENCY CONTACT: (24 HOURS) IN USA 1-800-400-HELP (1-800-422-4357) OUTSIDE USA: 01-504-744-5027

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DIRECTIONS FOR USE

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

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. AQUACAP 545 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 AQUACAP 545 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 12.7-25.5 fluid ounces of AQUACAP 545 Water Treatment Microbiocide per 1000 gallons of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 5.1-12.7 fluid ounces of AQUACAP 545 Water Treatment Microbiocide per 1000 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 fluid ounces of AQUACAP 545 Water Treatment Microbiocide per 1000 gallons of water in the system.

Subsequent Dose: Maintain this treatment level by starting a continuous feed of 2.6-12.7 fluid ounces of AQUACAP 545 Water Treatment Microbiocide per 1000 gallons of water in the system per day. Badly fouled systems must be cleaned before treatment is begun.

HEAT TRANSFER SYSTEMS

(Evaporative Condensers, Hydrostatic Sterilizers and Retorts, and Pasteurizers and Warmers)

AQUACAP 545 Water Treatment Microbiocide should be used at the same application rates, and in the same manner as described above. It should be added to the system at a point of uniform mixing such as a basin area, pump area, or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

INDUSTRIAL WASTEWATER SYSTEMS

(Wastewater Systems, Wastewater Sludge and Wastewater Holding Tanks)

AQUACAP 545 Water Treatment Microbiocide should be added to a wastewater system or sludge at a convenient point of uniform mixing such as a digester. Add 0.5-2.5 gallons (500-2500 ppm AQUACAP 545 Water Treatment Microbiocide) per 1000 gallons of wastewater or sludge.

LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions; and (c) that the directions, warnings and other statements on this label are based upon responsible experts' evaluation of reasonable tests of effectiveness and of toxicity to laboratory animals. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE, ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. This warranty does not extend to, and the Buyer shall be solely responsible for, any and all loss or damage which results from the use of this product in any manner which is inconsistent with the label directions, warnings or cautions.

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