BC-2545

A highly effective microbicide for use in controlling bacteria including chlorine-resistant bacteria and rotavirus-resistant bacteria, fungal (molds and yeasts) and algae in air washers and industrial scrubbing systems, reductizing cooling and process water systems.  Shown to contain reverse osmosis membranes and service water and auxiliary systems, heat transfer systems, wastewater systems including wastewater sluice and holding tanks, heat exchanger and other metal equipment, gas storage tanks and equipment such as steam-injection heating tanks, flood water, injection water, holding pond water, disposal wells, waste water, holding tanks, heat storage tanks and related utility and oil field lines, industrial reutilizing water handling systems and for use by manufacturers and formulators in formulating products for oil field applications.

**Active Ingredient:** Glutaraldehyde
**Inert Ingredient:**
**Total:**

**DIRECTIONS FOR USE**

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

**AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS/REDEUTRIZING COOLING AND PROCESS WATER SYSTEMS**

This product may be used only in industrial air washers and air washer systems which have mist-remitting components, BC-2545 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.  Additions must be made intermittently (SLUG DOSE) or continuously.  Recycled (slug) systems can be shock treated with BC-2545.  Under these conditions, blowdown should be discontinued for up to 24 hours.  BC-2545 can be used in industrial process water systems that contain ultra filtration units and non-medical reverse osmosis membranes (where approved for compatibility by the membrane manufacturer) and stainless distribution systems.

**INTERMITTENT (SLUG DOSE) METHOD**

Initial Dose: When the system is notoriously fouled, apply 3.3 to 22.7 fluid ounces (100 to 200 ppm product) of BC-2545 per 1,000 gallons of water in the system, or 89 to 177 ml of BC-2545 per 1000 liters of water in the system.  Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, adjust 4.5 to 11.3 fluid ounces (40 to 100 ppm) of BC-2545 per 1,000 gallons of water in the system weekly, or 35 to 89 ml of BC-2545 per 1000 gallons of water in the system weekly, or as needed to maintain control.

**CONTINUOUS FEED METHOD**

Initial Dose: When the system is noticeably fouled, apply 11.3 to 22.7 fluid ounces (100 to 200 ppm product) of BC-2545 per 1,000 gallons of water in the system, or 89 to 177 ml of BC-2545 per 1000 liters of water in the system.

Continuous Feed: Maintain this treatment level by starting a continuous feed of 3 to 13.3 fluid ounces (20 to 100 ppm product) of BC-2545 per 1,000 gallons of water in the system per day or 17.7 to 88.6 ml of BC-2545 per 1000 liters of water in the system per day.

Boiled foul systems must be cleaned before treatment is begun.

**SERVICE WATER AND ALKALINE SYSTEMS**

BC-2545 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 that will allow for uniform mixing throughout the system.

**HEAT TRANSFER SYSTEMS**

(Evaporative Condensers, Dairy Sweetwater Systems, Hydrostatic Sterilizers and Water Falloffs, and Pasteurizers, and Washing and Washing Tanks.  BC-2545 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, sump area or other reservoir or collecting area from which the treated water will be circulated uniformly throughout the system.

**INDUSTRIAL WASTEWATER SYSTEMS**

(Wastewater Systems. Whole Sludge and Wastewater Handling Tanks)  BC-2545 should be added to a wastewater system or sludge at a convenient point of uniform mixing such as the digester.  Add 0.8 to 2.0 gallons (350 to 750 ppm product) of BC-2545 per 1,000 gallons of wastewater or sludge to 399 ml to 1,994 ml of BC-2545 per 1000 liters of wastewater or sludge.

**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 skin. Protracted or frequently repeated skin contact may cause allergic reactions in some individuals. Causes allergic 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 gown or nitrile gloves. Wash thoroughly with soap and water after handling and eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge effluent containing this product into bays, streams, ponds, seaports, oceans or other waters unless in accordance with the requirements of a National Pollution 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**

BC-2545 is incompatible with many commonly used materials of construction such as steel, galvanized iron, aluminum, tin, and zinc. BC-2545 can be stored and handled in labeled plastic-lined, stainless steel, or reinforced paper plastic equipment. This product freezes at about -4°F (-20°C). Therefore, unless the storage tank is inside or underground, heating and insulation must be required. If heating is needed, exposure to high temperatures should be avoided. For short storage times (up to 1 month), temperatures of up to 100°F (38°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 available for gaskets and packing. Handle in a well-ventilated area. If vapors are irritating to the nose or eyes, special ventilation or respiratory protection (NMSA/NMSR approved air purifying respirator equipped with an organic vapor cartridge) may be required.

**LIMITED WARRANTY AND DISCLAIMER**

Sellers 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 EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES OR IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER EXPRESS OR IMPLIED REPRESENTATIONS AND WARRANTIES.

**Before Handling or Using This Product, See Your Employer and Read Current Material Safety Data Sheet.**

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

**FIRST AID**

In case of exposure:
- 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 further treatment advice.

**NOTE TO PHARMACIST:**

Aspiration may cause lung damage. Probable inorganic damage may be irreparable. Do not give antacids or other digestive aids.

**IN CASE OF EMERGENCY endangering life or property involving this product, call 800-424-9300.**

**Sellers’ Liability:**

The maximum liability of the manufacturer, its agents, and distributors shall be limited to the lesser of the cost of the product or materials containing the product or the cost of removing the product or materials containing the product, plus the cost of salvaging or cleaning up, if any. Such liability shall in no event exceed the amount actually paid by the buyer for the product or materials containing the product. In no event shall the manufacturer, its agents, or distributors be liable for any loss or damage to property or persons, including death, injury, or loss of use of anything or for loss of profits or revenue or consequential, incidental, or special damages arising out of the use or handling of the product or materials containing it.

**Sellers’ Disclaimers:**

The product is not intended for use by the public. It is intended for sale only to licensed, qualified, and properly trained operators.

**Sellers’ End User Agreement:**

By using the product, or by allowing your employees to use the product, you agree to all of the terms and conditions stated in this Agreement. You also agree to indemnify, defend, and hold Seller harmless from any and all claims, suits, judgments, damages, expenses, or liabilities arising from the use of the product by you or your employees.

**Acceptance:**

You acknowledge that you have read and agree to the terms and conditions of this Agreement. You agree that the agreement is to be governed by the laws of the State of California. You also agree to the exclusive jurisdiction of the courts of California for the resolution of any disputes arising out of this Agreement.

**Trademark Notice:**

BC-2545 is a trademark of Athlon Sales, Inc.

**Note:**

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