



Algistat 2420

ITEM CODE: **82739**
Net Weight: 450 lb/205 kg

For control of algae in recirculating cooling water systems, and in decorative and ornamental fountains.

ACTIVE INGREDIENT:

Terbutylazine:
2-(tert-butylamino)-4-chloro-6-(ethylamino)-S-Triazine.....4.0%

OTHER INGREDIENTS:.....96.0%

TOTAL:.....100.0%

Algistat 2420 is an Aqueous Dispersion

EPA Reg. No. 5185-479-1677

EPA Est. No. 55618-SC-001

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

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 doctor for treatment advice.

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

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the label or MSDS with you when calling a poison control center or doctor, or going for treatment.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through the skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling. Follow personal protective equipment manufacturer's instruction for cleaning/maintaining personal protective equipment. If no such instructions for washables exist, use

Sold By:
Ecolab Inc., Water Care Services
370 Wabasha Street N.
St. Paul, Minnesota 55102-1390 U.S.A.

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detergent and hot water. Store and wash personal protective equipment separately from other laundry. Users should wash before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing immediately if pesticides get inside. Then wash thoroughly and put on clean clothes. Users should remove personal protective equipment immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**FOR EMERGENCY MEDICAL INFORMATION, CALL: 1-800-328-0026
OUTSIDE THE USA AND CANADA: 651-222-5352**

ENVIRONMENTAL HAZARDS

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 sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PRECAUTION

Do not use Algistat 2420 in recirculating cooling water systems or decorative and ornamental fountains where the treated water will come into contact with lawns, trees, shrubs, or other desirable plants, since injury may result. Water from treated systems may not be used for irrigation or spraying of agricultural crops, lawns, or ornamental plants, or for watering cattle, goats, hogs, horses, poultry, or sheep, or for human consumption.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Storage: Protect from freezing.

Pesticide Disposal: Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Directions for Use — Recirculating Cooling Water Systems, Decorative and Ornamental Fountains

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read entire label and use strictly in accordance with precautionary statements and directions.

Industrial Use Application Restrictions: Open pouring of this product is prohibited. Mixing, loading, and application must be with a closed system (one that prevents the chemical from contacting handlers or other persons) and during handling of the chemical personal protective equipment must be worn. Personal protective equipment includes a long-sleeved shirt, long pants, shoes, socks, and chemical-resistant gloves. A chemical-resistant apron must be immediately available during loading and application and must be worn in case of a leak, spill, or other exposure to the concentrate.

When to apply:

Heavy algae growth contributes to restricted water flow in recirculating cooling water systems, thereby impairing the efficiency of the system, especially heat-exchange efficiency. Algistat 2420 alone or a combination of Algistat 2420 and chlorine or a

chlorine releasing agent (such as sodium, calcium, or lithium hypochlorite) used regularly controls algae and prevents re-establishment of algae when used according to directions.

Clean badly fouled systems before treatment. It is recommended that treatment be used prior to the first signs of algal growth, or after cleaning a system whose efficiency is already impaired by algal growth. Apply at a point in the system where Algistat 2420 will be uniformly mixed, such as in the tower sump.

Algistat 2420 is compatible with other water treatment products, including polymeric anionic scale inhibitors and dispersants, has low-foaming properties, and is non-corrosive to piping and equipment.

Treat the water early in the algal growth period (typically early spring) before the system is in jeopardy of becoming fouled by algae. For maximum effectiveness, systems with heavy algae growth should be cleaned before using Algistat 2420.

Treatment of algae in recirculating cooling water systems and in decorative and ornamental fountains:

Apply Algistat 2420 at a point in the system where there is good mixing such as in the cooling tower basin near the recirculating water pump or near the fountain recirculating water pump. Algistat 2420 is slow to remove algae from a system and therefore its action will reduce the risk of large algae clumps possibly clogging the distribution deck orifices or the heat exchanger of a recirculating cooling water system.

Chlorinated Systems and/or Brominated Systems

(I) **Continuous Addition:**

Initial Treatment — To keep systems free of algae, maintain up to 3 fluid ounces per 1000 gallons of water, or about 25 ppm, of Algistat 2420 in the system water (which is equivalent to about 1 ppm active ingredient) in conjunction with either continuous dosing or regular shock doses (for example, one hour, twice a day) of 0.1 – 1 ppm free chlorine and/or bromine. In order to achieve a maintenance level of 25 ppm Algistat 2420 by continuous addition, it will be necessary to have an appropriate dosing pump and know the volume, half-life (makeup/blowdown rate), evaporative rate, and windage loss of the system.

Maintenance Treatment — Concentrations below the recommended level of 25 ppm Algistat 2420 may give adequate control, depending upon the strains of algae present. Experience will demonstrate the level of Algistat 2420 required.

(II) **Slug/Intermittent Addition**

Initial Treatment — Apply sufficient Algistat 2420 to maintain up to 25 ppm Algistat 2420 in the water together with chlorination and/or bromination as described under the continuous addition section. Dosing concentration and frequency will be dependent upon a system's volume and half-life (makeup/blowdown rate). For example, to maintain 25 ppm Algistat 2420 in a system with a volume of 10,000 gallons and a half-life of 3 days, and initial dose of 50 ppm Algistat 2420 would be required (about 60 fluid ounces in 10,000 gallons), followed by additions of 25 ppm Algistat 2420 (about 30 fluid ounces in 10,000 gallons) every 3 days.

Maintenance Treatment — Concentrations below the recommended level of 25 ppm Algistat 2420 may give adequate control, depending upon the strains of algae present. Experience will demonstrate the level of Algistat 2420 required.

It is recommended that Algistat 2420 be dosed at the same time as the chlorine and/or bromine is dosed and as close as possible to the chlorine and/or bromine dosing point.

Non-Chlorinated and/or Non-Brominated Systems

(I) **Continuous Addition:**

Initial Treatment — To keep systems free of algae, maintain up to 9 fluid ounces per 1000 gallons of water, or about 75 ppm, of Algistat 2420 in the system water (which is equivalent to about 3 ppm active ingredient). In order to achieve a maintenance level of 75 ppm Algistat 2420 by continuous addition, it will be necessary to have an appropriate dosing pump and know the volume, half-life (makeup/blowdown rate), evaporative rate, and windage loss of the system.

Maintenance Treatment — Concentrations below the recommended level of 75 ppm Algistat 2420 may give adequate control, depending upon the strains of algae present. Experience will demonstrate the level of Algistat 2420 required.

(II) **Slug/Intermittent Addition**

Initial Treatment — Apply sufficient Algistat 2420 to maintain up to 75 ppm Algistat 2420 in the water. Dosing concentration and frequency will be dependent upon a system's volume and half-life (makeup/blowdown rate). For example, to maintain 75 ppm Algistat 2420 in a system with a volume of 10,000 gallons and a half-life of 3 days, an initial dose of 150 ppm Algistat 2420 would be required (about 180 fluid ounces in 10,000 gallons), followed by additions of 75 ppm Algistat 2420 (about 90 fluid ounces in 10,000 gallons) every 3 days.

Maintenance Treatment — Concentrations below the recommended level of 75 ppm Algistat 2420 may give adequate control, depending upon the strains of algae present. Experience will demonstrate the level of Algistat 2420 required.

Note: Buyer assumes all responsibility for safety and use not in accordance with directions.