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# VULCAN #88 ALGAECIDE

**A TREATMENT FOR USE IN COMMERCIAL AND/OR INDUSTRIAL COOLING WATER SYSTEMS TO CONTROL THE GROWTH OF ALGAE.**

**ACTIVE INGREDIENT:**

Poly(oxyethylene (dimethylamino) ethylene-(dimethylamino) ethylene dichloride) ..... 7.38%

**INERT INGREDIENT** ..... 92.61%

This product contains 0.63 lb. of active ingredient per gallon and weighs 8.47 lb. per gallon.

**KEEP OUT OF REACH OF CHILDREN**

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## CAUTION

ACCEPTED

11743-3  
NOV 6 1984

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed. Avoid breathing vapors. Avoid contact with skin, eyes, nose, and mouth.

**FIRST AID:** If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution, or, if these are not available, drink large quantities of water.

Avoid alcohol. Call a physician immediately.

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to fish. Keep out of lakes, streams, brooks, ponds. Permit may be required for discharges containing this pesticide into lakes, streams, ponds, or public water. For guidance, contact the regional office of the Environmental Protection Agency.

### DIRECTIONS FOR USE GENERAL CLASSIFICATION

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

Vulcan #88 Algaecide is used to control algae, bacteria, and fungi in recirculating commercial and industrial water cooling towers. Prior to its use systems must be cleaned to remove algal growth, microbiological slimes, and other deposits. An initial slug addition of 8 to 20 fluid ounces of Vulcan #88 Algaecide per 1000 gallons of water to provide a concentration of 65 to 162 parts per million of Vulcan #88 Algaecide, based on the total weight of water in the system is recommended. Repeat initial dosage until control is evident.

Subsequent slug additions of 2 to 20 fluid ounces of Vulcan #88 Algaecide per 1000 gallons of water (16 to 162 parts per million of Vulcan #88 Algaecide) should be employed every 2 to 5 days, or as needed. The frequency of addition depends upon the relative amount of bleedoff and the severity of the microbiological problem. Slug additions should be made in the sump of water cooling towers.

Vulcan #88 Algaecide is used to control bacteria in industrial air-washing systems that maintain effective mist eliminating components. Prior to its use, systems should be cleaned to remove bacterial slimes and other deposits. An initial slug dose of 31 to 51 fluid ounces of Vulcan #88 Algaecide per 1000 gallons of water is recommended. Repeat initial dosage until control is evident. Subsequent slug additions of 21 to 51 fluid ounces of Vulcan #88 Algaecide per 1000 gallons of water should be employed each 1 to 5 days, or as needed. The frequency of addition depends upon the relative amount of bleedoff and severity of the bacterial problem. Slug additions may be made to the sump or to the water collection trays of the airwash system.

### STORAGE AND DISPOSAL

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

**STORAGE:** Do not stack more than four drums high. Leaking or damaged drums should be placed in overpack drums for disposal. Spills should be absorbed in sawdust or sand and disposed of in a sanitary landfill. Keep container closed when not in use.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

#### CONTAINER DISPOSAL:

- PLASTIC:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.
- METAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Manufactured by:

**GUARDIAN, INC.**

6606 Cahaba Valley Road • Montgomery, AL 36143

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