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SUBJECT TO REVISION

# PRODUCT DATA

COOLING WATER TREATMENT

NOV 08 1989

## OLIN 3204 INDUSTRIAL MICROBIOCIDES

### PRIMARY APPLICATION

OLIN 3204 is a broad spectrum microbicide for control of algae, bacteria and fungi in recirculating commercial and industrial water cooling towers and in fresh water used in industrial processes. OLIN 3204 is also used for control of carbicula fluminea in cooling water and industrial process water systems.

OLIN 3204 carries EPA Registration No. 33576-27.

### PHYSICAL PROPERTIES

Appearance . . . . . Clear, light yellow liquid  
Density (lb/gal) . . . . . 8.6  
pH (1% solution) . . . . . 8.1  
Odor . . . . . Sweet

### DOSAGE/REGISTERED USES

Cooling tower water or industrial process water:

Initial: 3.6-9.0 fl oz of OLIN 3204 per 1,000 gals of contained water.

Subsequent Doses: 0.9 - 9.0 fl oz of OLIN 3204 per 1,000 gals of contained water.

Cooling tower wood:

Apply a dispersion of 2.0 - 2.8% OLIN 3204 in water at a rate to provide 0.75 - 3.2 lbs OLIN 3204 per 1,000 sq. ft. of wood surface.

OLIN 3204 can also be applied to the tower basin or cold well at the rate of 5.0 lbs of OLIN 3204 per 1,000 gals of contained water. All bleedoff should be stopped for 4 - 6 hours after treatment.

Air washer systems:

Initial: 13.32 - 22.2 fl. oz of OLIN 3204 per 1,000 gals of contained water. Repeat until control is evident.

Subsequent dose: 6.75 - 16.65 fl. oz. of OLIN 3204 per 1,000 gals of contained water should be used every 1 - 5 days.

Carbicula fluminea control:

Prior to OLIN 3204 use, system should be cleaned to remove mollusk and other deposits.

Feed OLIN 3204 at a dosage of 1-10 fl. oz. per 1000 gals. of water (8-80 ppm). Additions should be made continuously or intermittently to the intake water. Continuous addition is required for noticeably fouled systems. Intermittent feeding is used to maintain control.

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#### Decorative fountains:

OLIN 3204 is used to control the growth of algae in decorative fountains and ponds that do not contain fish. Heavy growths of algae should be manually cleaned prior to treatment. Fountains and ponds with just visible algae growth require:

##### Initial dose:

4.0-8.0 fl. oz. OLIN 3204 per 1,000 gals of water.

##### Freshly cleaned and filled fountain add:

2.0-6.0 fl. oz. of OLIN 3204 per 1,000 gals of water.

##### Maintenance dosage:

0.8-2.0 fl. oz. of OLIN 3204 per 1,000 gals of water should be added every 5 to 7 days as needed.

OLIN 3204 may be used in fountains and ponds treated with chlorine chemicals, but do not mix OLIN 3204 with concentrated dry or liquid chlorine products.

Your Olin Water Services representative will assist you to choose an effective dosage and frequency for your system. Follow detailed dosage instructions on container label.

#### FEEDING

For best results in most applications slug feed OLIN 3204. When OLIN 3204 is used as molluskicide feed must be continuous. Begin treatment before the system has become fouled with algae or bacterial slime or after cleaning if the system efficiency has already been reduced by such fouling. Badly fouled systems must be cleaned before treatment is begun. Apply OLIN 3204 at a point where it will be uniformly mixed with the circulating water.

#### PACKAGING

OLIN 3204 is available in 5, 30 and 55 gallon containers and also in bulk.

#### STORAGE

Do not contaminate water, food or feed by storage or disposal. Keep container closed when not in use. Do not stack more than four drums high. Leaking or damaged drums should be placed in overpack drums for disposal.

#### HANDLING

Do not get in eyes, on skin, or on clothing. Do not handle with bare hands. Wear goggles or face shield and use rubber or plastic gloves. Use only thorough clean utensils when handling. Remove and wash contaminated clothing before reuse.

Avoid breathing mist or vapors.  
Avoid contamination of food.

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# Olin



EPA REG. NO. ACCEPTED  
33576-27  
with COMMENTS  
in EPA Letter D-100

NOV 06 1989

# OLIN 3204

INDUSTRIAL MICROBIOCIDES  
FOR INDUSTRIAL USE ONLY

EMERGENCY NO. 1-800-OLIN-911

33576-27

Under the Federal Insecticide, Fungicide, and Rodenticide Act

ACTIVE INGREDIENTS:

1,2-dichloro-4,4'-bipyridine (dimethyliminio) ethylene-- 15%  
(dimethyliminio) ethylene dichlorideJ--- 15%

INERT INGREDIENTS: -----85%

Contains 1.3 pounds of active ingredient per gal.

100%

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMAN AND DOMESTIC ANIMALS

CAUTION: HARMFUL IF SWALLOWED. AVOID CONTACT WITH SKIN, EYES, OR CLOTHING. AVOID BREATHING MIST OR VAPORS. AVOID CONTAMINATION OF FOOD.

Do not get in eyes, on skin, or on clothing. Do not handle with bare hands. Wear goggles or face shield and use rubber or plastic gloves. Use only thoroughly clean utensils when handling. Remove and wash contaminated clothing before reuse.

### ENVIRONMENTAL HAZARDS--

This pesticide is toxic to fish. Do not discharge into lakes, streams, ponds, or public water unless in accordance with an NPDES permit. For guidance, contact your Regional Office of the EPA. Do not contaminate water by cleaning of equipment or disposal of waste. Apply this pesticide as specified on this label.

## DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

OLIN 3204 is used to control algae, bacteria, and fungi in recirculating commercial and industrial water cooling towers. It is also employed for the control of algae, bacteria, and fungi in fresh water used in industrial processes. Prior to the use of OLIN 3204, systems must be cleaned to remove algae growth, microbiological slime, and other deposits. An initial slug addition of 3.6 to 9.0 fluid ounces of OLIN 3204 per 1000 gallons of contained water, to provide a concentration of 29 to 73 ppm of OLIN 3204 based on the total weight of water in the system. Repeat until control is achieved.

KEEP OUT OF REACH OF CHILDREN

## CAUTION

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

## FIRST AID

### STATEMENT OF PRACTICAL TREATMENT

If in EYES: Flush with flowing water 15 minutes. Call physician.

If on SKIN: Flush with flowing water for 15 minutes. Wash contaminated clothing before reuse.

If SWALLOWED: Immediately drink large quantities to dilute. Call physician immediately.

## DIRECTIONS FOR USE (CONTINUED)

Subsequent slug additions of 0.9 to 9.0 fl. oz. of OLIN 3204 per 1000 gallons of contained water (7.3 to 73 ppm of OLIN 3204) should be made every 2 to 5 days or as needed. The frequency of addition depends upon the relative amount of biofouling and the severity of the microbiological problem. OLIN 3204 is used to protect cooling tower wood against soft or surface rot and internal dry rot. It is applied by spraying or painting a dispersion containing 2.0 to 2.8% OLIN 3204 in water onto the clean wood surfaces. The amount applied should provide .75 to 3.2 lbs. OLIN 3204 per 1000 sq. ft. of wood surface. Soft or surface rot can also be inhibited by periodic shock doses of OLIN 3204 to the recirculating cooling water at the tower basin or cold well.

Product  
No. 3204 = 8.5 lb/gal

## STORAGE:

Do not contaminate water, container closed when not in use. Leaking or damaged drums should be disposed of in a landfill. Do not reuse empty

## DISPOSAL:

Triple rinse (or equivalent). Do not puncture and dispose of in accordance with approved by state and local authorities. Improper disposal of excess product is a violation of Federal Law. Follow all instructions according to label instructions. Environmental Control Agency, nearest EPA Regional Office for disposal.

## DIRECTIONS FOR USE

The dosage should provide 5.0 to 9.0 fl. oz. of OLIN 3204 per 1000 gallons of water and the bleedoff should be stopped. The shock treatment should be repeated until control bacteria in industrial water is achieved. mist eliminating components. to remove bacterial slime and 13.32 to 22.20 fl. oz. of OLIN 3204. Repeat initial slug additions of 6.75 to 16.75 fl. oz. of OLIN 3204 per 1000 gallons of water should be used every 1 to 5 days. addition depends on the relative amount of biofouling problem. Slug additions may be necessary to the airwash system.