

PM-31 REG# 8540-23

MAR 13 1989

Garratt-Callahan Company  
111 Rollins Road  
Millbrae, CA 94030

Attention: William Dignen

Gentlemen:

Subject: GARRATT-Callahan Formula 315  
EPA Registration No. 8540-23  
Your Submission Dated July 6, 1987  
EPA Received Date August 3, 1987

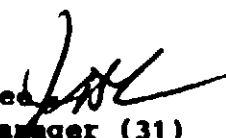
The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you submit five (5) copies of your final printed labeling before you release the product for shipment.

If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of this condition.

A stamped copy of the labeling is enclosed for your records.

If you have any questions concerning this letter, please contact Karen Leavy at (703) 557-3966.

Sincerely yours,

  
John H. Lee  
Product Manager (31)  
Antimicrobial Program Branch  
Registration Division (TS-767C)

Enclosure

50276:I:Leavy:L-1:KENC0:02/10/89:03/27/89:de:vo:sg:rw:JH:CT

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

# FORMULA 315

NET WT  
PROD. #

## DIRECTIONS FOR USE GENERAL CLASSIFICATION

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

### INDUSTRIAL RECIRCULATING WATER COOLING TOWERS

For the control of bacteria, algae and fungi, add Garratt-Callahan Formula 315 to the tower basin, distribution box or some other point to ensure uniform mixing.

**INITIAL DOSE** When the system is noticeably fouled, apply 148 to 883 ppm Garratt-Callahan Formula 315 (1.26 to 7.46 pounds or 19 to 113 fluid ounces of Garratt-Callahan Formula 315) per 1000 gallons of water in the system. Repeat until control is achieved.

**SUBSEQUENT DOSE** When microbial control is evident, add 35 to 219 ppm Garratt-Callahan Formula 315 (0.3 to 1.86 pounds or 4.5 to 28 fluid ounces of Garratt-Callahan Formula 315) 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.

### AIR WASHER SYSTEMS

Add to the air washer sump or chill water sump, to insure uniform mixing, 35 to 863 pm Garratt-Callahan Formula 315 (0.3 to 1.86 pounds or 4.5 to 113 fluid ounces of Garratt-Callahan Formula 315) per 1000 gallons of water in the system depending upon the severity of contamination to control bacteria, fungi, and algae which cause fouling in industrial air washer systems.

### INTERMITTENT OR SLUG METHOD

**INITIAL DOSE** When the system is noticeably fouled, apply 148 to 883 ppm Garratt-Callahan Formula 315 (1.26 to 7.46 pounds or 19 to 113 fluid ounces of Garratt-Callahan Formula 315) per 1000 gallons of water in the system. Repeat until control is achieved.

**SUBSEQUENT DOSE** When microbial control is evident, add 35 to 219 ppm Garratt-Callahan Formula 315 (0.3 to 1.86 pounds or 4.5 to 28 fluid ounces of Garratt-Callahan Formula 315) per 1000 gallons of water weekly or as needed to maintain control.

### CONTINUOUS FEED METHOD

**INITIAL DOSE** When the system is just noticeably fouled, apply 148 to 883 ppm Garratt-Callahan Formula 315 (1.26 to 7.45 pounds or 19 to 113 fluid ounces of Garratt-Callahan Formula 315) per 1000 gallons of water in the system.

**SUBSEQUENT DOSE** Maintain this treatment level by adding a continuous feed of 35 to 219 ppm Garratt-Callahan Formula 315 (0.3 to 1.86 pounds or 4.5 to 28 fluid ounces of Garratt-Callahan Formula 315) per 1000 gallons of makeup water.

Badly fouled systems must be cleaned before initial treatment.

**NOTE** For use only in industrial air washing systems that maintain effective mist eliminating components.

Garratt-Callahan Formula 315 weighs 8.4 lbs per gallon.

### IN PAPERMILL WATERS

**DOSAGE** Apply 0.44 to 15 pounds of Garratt-Callahan Formula 315 per ton (dry basis) of pulp or paper produced as a slug dose. If necessary, repeat daily. Badly fouled systems should be cleaned before the initial treatment.

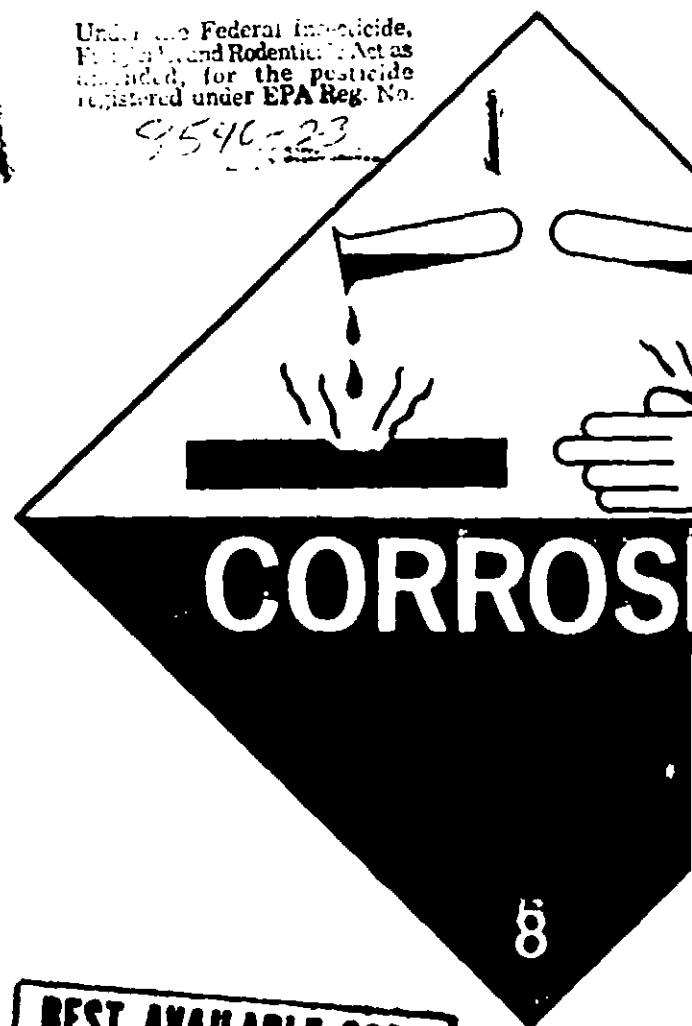
**POINT OF ADDITION** Add Garratt-Callahan Formula 315 at a point in the system that assures uniform mixing, for example, at the beater, the hydroplifier, or the fan or broke storage pump.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAR 10 1979

Under the Federal Insecticide,  
Fungicide and Rodenticide Act as  
amended, for the pesticide  
registered under EPA Reg. No.

9596-23



BEST AVAILABLE COPY

6/87

TELEPHONE (415) 697-5811

CHICAGO • NEW YORK • A

# GARRATT-CALLAHAN COMPANY

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS DANGER

Corrosive  
Causes eye damage and skin burns  
Causes eye damage and skin burns  
May cause allergic skin reaction  
May be harmful if inhaled  
May be fatal if swallowed or absorbed through the skin  
Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Avoid breathing vapor or mist. Avoid contamination of food. Do not take internally. Wash thoroughly after handling.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. Do not discharge into lakes, streams, ponds, or public waters 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 only as specified on the label.

### STORAGE AND HANDLING

#### PROHIBITIONS

This product is corrosive to mild steel. Do not store or transport in unlined metal containers. Do not contaminate food or feed by storage, disposal or cleaning of equipment.

#### PESTICIDE DISPOSAL

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### CONTAINER DISPOSAL

#### CONTAINER DISPOSAL

**METAL CONTAINERS:** 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.

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

#### GENERAL

CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES

### CONDITIONS OF SALE AND WARRANTY

Garratt-Callahan warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. **GARRATT-CALLAHAN MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE.** Handling, storage and use of the product by Buyer or User are beyond the control of Garratt-Callahan. Risks such as ineffectiveness or other unintended consequences resulting from, but not limited to, failure to follow label directions will be assumed by the Buyer or User. **IN NO CASE WILL GARRATT-CALLAHAN BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.**

INDUSTRIAL MICROBICIDE FOR USE IN RECIRCULATING WATER COOLING TOWERS AND AIR WASHER SYSTEMS, AND IN PAPER MILLS.

#### ACTIVE INGREDIENTS:

5-Chloro-2-methyl-4-isothiazolin-3-one . . . . . 1.15%  
2-Methyl-4-isothiazolin-3-one . . . . . 0.35%

INERT INGREDIENTS: . . . . . 98.50%  
100.00%

## KEEP OUT OF REACH OF CHILDREN DANGER

### STATEMENT OF PRACTICAL TREATMENT

**IF SWALLOWED:** Do not induce vomiting. 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.

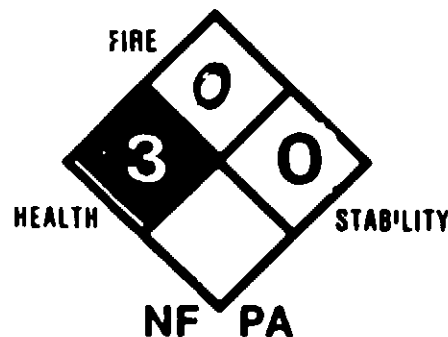
**IF INHALED:** Remove immediately to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**IF ON SKIN:** Wash thoroughly with soap and water. Remove and wash contaminated clothing before reuse.

**IF IN EYES:** Flush with plenty of water for at least 15 minutes. Call a physician.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS



EPA REG. NO 8540-23

EPA EST. NO.

- 8540-1-CA
- 8540-1-TX
- 8540-1-GA
- 8540-1-IL
- 8540-1-NJ



MANUFACTURED BY

GARRATT-CALLAHAN CO.

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111 ROLLINS ROAD

MILLBRAE, CA 94030