

14 JAN 1988

DuBois Chemicals  
A Division of Chemed Corporation  
5th & Walnut Streets  
Cincinnati, OH 45202

Attention: Kathy Baldroch

Subject: GCO-30LM Bacteriostat and Algaecide  
EPA Registration No. 5736-88  
Your Submission Dated November 18, 1987

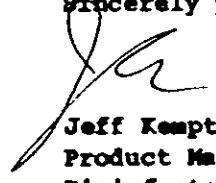
The registration record for the above-mentioned product has been amended to include the additional brand name listed below.

Additional Brand Name

GCO-30LM with Visigard

It is understood that the label will be identical with that of the basic label accepted under this registration except for the product name.

Sincerely yours,



Jeff Kempter  
Product Manager (32)  
Disinfectants Branch  
Registration Division (TS-767C)

92045:I:Pringle:K-6:KENCO:01/11/88:01/20/88:aw:VO:JH:CB

CONCURRENCES

SYMBOL	TS-767C						
SURNAME	Pringle						
DATE	1-13						

US ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDES PROGRAMS  
REGISTRATION DIVISION (TS-767)  
WASHINGTON, DC 20460

EPA REGISTRATION NO.

DATE OF ISSUANCE  
**14 JAN 1988**

5736-88

TERM OF ISSUANCE

NOTICE OF PESTICIDE:  REGISTRATION  
 REREГИSTRATION  
(Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT

GCO-30LM Bacterinostat and Algaecide

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

┌ DuBois Chemicals ┐  
┌ A Division of Chemed Corporation ┐  
┌ 5th & Walnut Streets ┐  
┌ Cincinnati, OH 45202 ┐

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

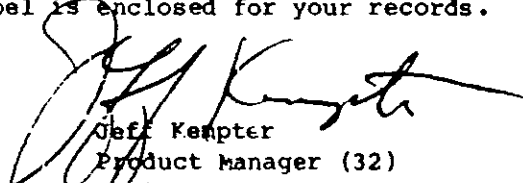
Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Add the phrase "EPA Registration No. 5736-88" to your label before you release the product for shipment.
3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

  
Jeff Keupler  
Product Manager (32)  
Disinfectants Branch  
Registration Division (TS-767C)

Enclosures

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

*Pringle 1-13*

**general description**

<sup>30</sup>  
GCO-10-LM cooling tower treatment is a versatile blend of corrosion inhibitors, scale control agents and a microbiocide. GCO-10-LM treatment is specially formulated to provide superior corrosion inhibition in cooling water systems which utilize soft water makeup, particularly recommended for use when makeup water contains less than 30 ppm M alkalinity. It also eliminates biofouling by algae and acts as a bacteriostat. Thus, GCO-10-LM treatment is a total approach in maintaining the efficiency of cooling tower systems

**properties**

Appearance A clear, straw-colored liquid  
 Density <sup>10.2</sup> 10.2 lbs. gallon  
 pH (Concentrate) Approximately <sup>8.3</sup> 8.3  
 Flash Point None  
 Foaming None at normal use concentrations  
 Freezing Point 20° F—If frozen, thaw and remix until uniform  
 EPA Registration Number 5736-~~34~~

**packaging**

<sup>560</sup>  
55 Gallon plastic drums (208.2 liters) Net weight <sup>46</sup> 46 lbs (20.9 kg) <sup>254.5</sup> 254.5  
<sup>306</sup> 30-Gallon plastic drums (113.6 liters) Net weight <sup>27</sup> 27 lbs (12.2 kg) <sup>139.0</sup> 139.0  
 6-Gallon plastic pails (22.7 liters) Net weight <sup>6.7</sup> 6.7 lbs (3.0 kg) <sup>27.7</sup> 27.7

Seller makes no warranty, expressed or implied, concerning the use of this product other than that warranty if any indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

Statement of Practical Treatment:

ACCEPTED with COMMENTS in EPA Letter <sup>Date</sup>

JAN 14 1988

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 5736-88

<sup>35</sup>  
COOLING TOWER TREATMENT BACTERIOSTAT AND ALGAEICIDE

**Technical Data**

**DIRECTIONS FOR USE:**

<sup>30</sup>  
**Precleaning**—To avoid unnecessary depletion of the GCO-10-LM treatment, pre-cleaning of heavily fouled systems is recommended. Mechanically remove as much reachable growth as possible with brushes and high pressure hose. Prevent loosened sludge from plugging equipment by placing a screen fence around the opening for the return line. Flush loosened matter out basin drain. Pump or bucket sludges from sumps and hot/cold well. <sup>12 30</sup>

**Cooling Towers/Open Recirculating Systems**—Intermittent or Slug Treatment After pre-cleaning, turn off bleed for 1 to 12 hours. Do not use any other treatment during period of applying GCO-10-LM treatment product. Initially slug feed the GCO-10-LM treatment to tower basin at 10 to 20 fluid ounces per 1000 gallons of system water. Repeat dosage, if necessary to achieve control. When control is evident, open bleedoff valve and return to normal treatment. Maintain control with subsequent GCO-10-LM treatments using GCO-10-LM treatment at 10 to 20 fluid ounces per 1000 gallons of water. Frequency of treatment depends upon the system and local conditions.

<sup>12 30</sup>  
**Continuous Feed Method**—Initial Dose: When the system is noticeably fouled, add 30 to 90 fluid ounces of GCO-10-LM treatment per 1000 gallons of system water. Subsequently, maintain this level by pumping a continuous feed of 10 to 20 fluid ounces of GCO-10-LM treatment per 1000 gallons of water in the system lost by blowdown.

**CONTROL:**

<sup>30 10 12 100 125</sup>  
Check the GCO-10-LM treatment concentration by utilizing either of these two methods.  
**Method 1**—Follow the titration test procedure for MONITROL treatment using Kit # 1900 or # 1950. Maintain a net titration of 8 to 10 drops (200 to 600 ppm) for a 25 ml sample (subtract drops for raw water titration from drops for system water titration). Difference x 40 ppm = ppm GCO-10-LM product.

<sup>100 120 30</sup>  
**Method 2**—Follow procedures given with Kit # MBB-3100. Maintain a reading of 10 to 20 utilizing the color comparator. This corresponds to 200 to 600 ppm GCO-10-LM treatment. <sup>K-1865 KIT.</sup>

**DISPENSING:**

The GCO-10-LM treatment may be dispensed with the MONITROL or VERITROL equipment directly from its shipping container. Contact your DuBOIS Representative DuBOIS Water Management Division for equipment recommendations.

**PRECAUTIONS:**

**KEEP OUT OF THE REACH OF CHILDREN.**

Hazardous to Humans and Domestic Animals. **CAUTION:** Harmful if swallowed. Avoid breathing vapors. Avoid contact with skin, eyes, or clothing.

**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. Do not discharge into lakes, streams, ponds, or public waters unless in accordance with NPDES permit. For guidance contact your Regional Office of the EPA.

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Pesticide spray mixture or rinsate that cannot be used or chemically processed should be disposed in a landfill approved for pesticides or buried in a safe place away from water supplies.

**Plastic Containers**—Triple rinse (or equivalent) and dispose in an incinerator or landfill approved for pesticide containers, or bury in a safe place. Consult Federal, State or Local disposal authorities for approved alternate procedures such as limited open burning.

water management division

DUBOIS CHEMICALS • DUBOIS TOWER • CINCINNATI OHIO 45272



**BEST AVAILABLE COPY**



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# GCO-10-L

## cooling tower treatment bacteriostat and alga

### SUPERIOR PROTECTION IN CORROSIVE SOFT I

<sup>30</sup>  
GCO-10-LM cooling tower treatment's versatile blend of scale control agents, corrosion inhibitors and a microbiocide makes it very effective in soft makeup water (less than 40 ppm hardness) with low M alkalinity (less than 30 ppm). It affords continuous protection against algae, bacteria and slime.

<sup>30</sup>  
**Convenient:** GCO-10-LM treatment puts into a single drum everything needed to control scale, corrosion and biological growth in a cooling tower and it can be fed directly from the shipping container into the lower system making it unnecessary to handle chemicals and make frequent trips to the tower to slug feed biocide.

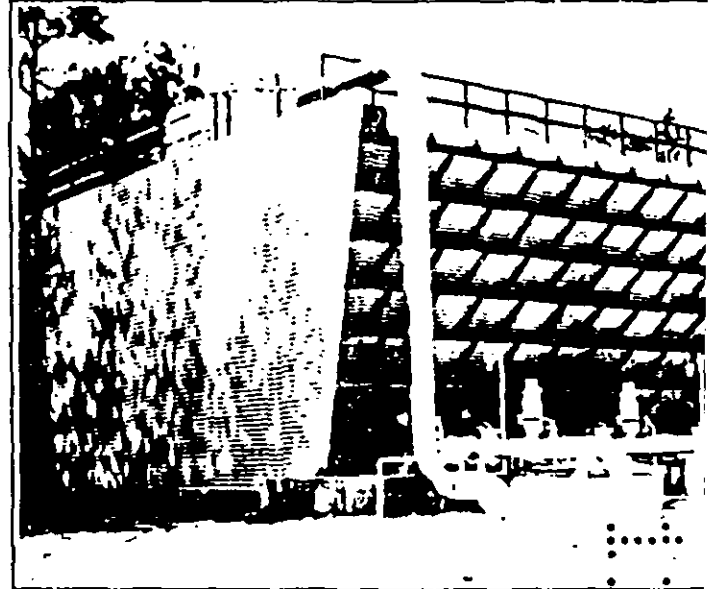
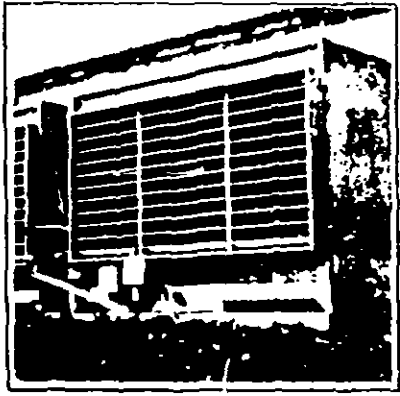
<sup>30</sup>  
GCO-10-LM treatment contains no chromate or heavy metals EPA Reg. No. 5736-04-001

<sup>30</sup>  
**Superior Protection**—GCO-10-LM treatment provides superior corrosion and scale protection in soft water (hardness less than 200 ppm) areas where M alkalinity is less than 30 ppm. There is complete control of microbiological fouling — algae, bacteria and slime.

<sup>30</sup>  
**Foam Control**—GCO-10-LM additions do not produce foam in the lower system water. And there is no odor when using this product.

**Easy to Test**—Testing for proper level of GCO-10-LM product and easy with either #1 or #2 test kits.

<sup>30</sup>  
**Economical**—The unique GCO-10-LM treatment is the cost of additional biocidal, but also makes it possible at higher cycles for both k and water costs.



IT IS PARTICULARLY RECOMMENDED FOR USE IN LARGE COOLING TOWER SYSTEMS.

**BEST AVAILABLE COPY**

Precautionary Statements  
 Hazards to Humans and Domestic Animals.  
**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

Harmful if swallowed. Avoid breathing vapors. Avoid contact with skin, eyes, or clothing.

**ENVIRONMENTAL HAZARDS** — This pesticide is toxic to fish. Do not discharge into lakes, streams, ponds or public waters unless in accordance with NPDES permit. For guidance contact your Regional Office of the EPA.

**PHYSICAL HAZARDS** — Do not use, pour, spill or store near heat or open flame.

**STORAGE AND DISPOSAL** — Do not contaminate

water, food, or feed by storage or disposal. Open disposal is prohibited. Do not reuse empty container.

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

**Metal Containers (nonaerosol)** — 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 incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

# GCO-30L

## BACTERIOSTAT AND ALGAEICIDE

FOR THE CONTROL OF MANY BIO-FOULING ORGANISMS OCCURRING IN OPEN RECIRCULATING WATER COOLING TOWERS

**ACTIVE INGREDIENT:**

Poly [oxyethylene (dimethyl-mino) ethylene (dimethyl-mino) ethylene dichloride] . . . . . 5

**INERT INGREDIENTS:** . . . . . 95

This product contains 0.51 lb. of active ingredient per gallon and weighs 10.2 lb. per gallon.

EPA Registration No. 5736 EPA EST. No. 5736-CA1-NJ1-01

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION:** Harmful if swallowed. Avoid breathing vapors. Avoid contact with skin, eyes, or clothing.

If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solutions, or, if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.

Net Contents Shown Elsewhere On Container

— SOLELY FOR INDUSTRIAL USE • O



**DuBOIS CHEMICALS, A DIVISION OF CHEM**

