

49854-11

08/23/1983

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American Cyanamid Company  
1 Cyanamid Plaza  
Wayne, NJ 07470

Attention: Allan Sherr, Manager  
Chemical Petitions & Regulatory Affairs

AUG 23 1983

Gentlemen:

Subject: Cytox 2050 Industrial Microbiocide  
EPA Registration No. 49854-11  
Your Submission Dated August 2, 1983

The amendment referred to above, submitted in connection with registration under FIFRA, is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
  - a. Delete the number 1730-23. This is not your registration number. Refer to our letter of May 10, 1983, for the correct EPA Registration No. (49854-11).
2. 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.

Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

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

Sincerely yours,

*J. H. Lee*

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

Enclosure

TS-767C:JLee:DCR-11885:WANG-0855C:KIM:Raven:479-2013:8/16/83

CONCURRENCES							
SYMBOL	▶						
SURNAME	▶						
DATE	▶						



READ ALL PARTS OF THIS LABEL

# CYTOX<sup>®</sup> 2050

## Industrial Microbiocide

**DANGER!**

KEEP OUT OF REACH OF CHILDREN  
FLAMMABLE LIQUID AND VAPOR  
CORROSIVE  
CAUSES EYE DAMAGE AND SKIN IRRITATION  
HARMFUL OR FATAL IF SWALLOWED

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

AUG 23 1983

See side panel for additional precautions  
Under the Federal Insecticide, Fungicide, and Rodenticide Act amended, for the pesticide registered under EPA Reg. No. 49854-11

**ACTIVE INGREDIENT:**

Dodecylguanidine hydrochloride ..... 33%

**INERT INGREDIENTS** ..... 67%

EPA Reg. No. 1730-23

EPA Est. No. 1730-WV-1

**NET CONTENTS:** 53 Gallons  
(2.64 pounds active ingredient per gallon)

**CONDITIONS OF SALE**

Nothing contained herein shall be construed to imply the nonexistence of any relevant patent, nor constitute permission, inducement or recommendation to practice any invention covered by any patent owned or controlled by American Cyanamid or by others, without authorization from the owner or party controlling the patent. The patents owned or controlled by American Cyanamid which are not licensed include, but are not limited to, U.S. Patent Numbers, 2,906,595, and 3,436,461 and such named patents are available for licensing upon written request.

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American Cyanamid Company  
WAYNE, NEW JERSEY 07470 201-831-2000

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**HAZARDOUS TO HUMANS  
AND DOMESTIC ANIMALS  
DANGER**

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**DO NOT GET IN EYES**

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Wear goggles or face shield when handling. Do not put your fingers to your eyes.

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**DO NOT GET ON SKIN**

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Wear rubber gloves when handling and wash thoroughly afterward.

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**DO NOT GET ON CLOTHING**

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If you spill some of this product on your clothing or shoes, remove the contaminated clothing and shoes at once and wash them before reuse.

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**STATEMENTS OF PRACTICAL  
TREATMENT**

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**In case of contact**, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

**If swallowed**, drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not immediately available, drink large quantities of water. Avoid alcohol. Call a physician immediately. Never give anything by mouth to an unconscious person.

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**NOTE TO PHYSICIAN**

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Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

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**IN CASE OF ACCIDENT**

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**SPILL OR LEAK.** Cover spill with sawdust or other absorbent material. Wear goggles or face shield and rubber gloves. Sweep up absorbed spill and incinerate or bury in a landfill. Flush spill area with water.

**FIRE.** On small fire use dry chemical or carbon dioxide. On large fire use water spray. Wear self-contained breathing apparatus and full protective clothing.

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**FLAMMABLE**

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Do not use, pour, spill or store this product near heat, sparks, or flame.

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**STORAGE AND DISPOSAL**

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Do not contaminate water, food, or feed by storage or disposal. Do not reuse empty container. Dispose of in an incinerator or landfill approved for pesticide containers, or bury in a safe place. Consult federal, state or local disposal authorities for approved alternative procedures such as limited open burning. Stay out of smoke and fumes.

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**ENVIRONMENTAL HAZARDS**

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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.

## DIRECTIONS FOR USE

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

**INDUSTRIAL RECIRCULATING WATER COOLING TOWERS.** This product reduces the growth of algae, bacteria and fungi in industrial recirculating water cooling towers. Reduction of microbial growth is obtained by the addition of CYTOX 2050 as a slug dosage one to three times per week at a dosage of 5.3 to 8.0 ounces (by weight) per one thousand gallons of water in the system (40 to 60 parts of product per million parts of water by weight). Once the reduction is accomplished, the addition of CYTOX 2050 can be reduced to a periodic dosage of 2.7 to 5.3 ounces (by weight) per one thousand gallons of water, once per week, or as needed. For application by proportioning pump, these dosages should be calculated on the basis of each one thousand gallons of bleed-off. The basin of the tower or a line from a hot well are suitable addition points. Application should be made to systems when the presence of microbial contamination is first noticed. Water cooling towers which are heavily contaminated should be cleaned manually before treatment with this product. Do not use in potable water systems.

**SEWAGE DISPOSAL LAGOONS.** This product reduces the growth of algae on the surface of sewage disposal lagoons which, if unchecked, can cause the lagoon to become totally anaerobic and emit odors. Dilute CYTOX 2050 with water to accommodate the delivery characteristics of the pump and spray rig, and apply evenly to the surface of the lagoon. Dosage should be 1.0 to 1.5 ounces (by weight) of CYTOX 2050 per 100 square feet of surface, depending on the population density of the algal blooms. The interval between treatments will be determined by the reappearance of floating algal blooms and subsequent treatments should be made as spot treatments at the same dosage as the initial treatment. A small outboard motorboat equipped with a tank-pump-spray boom assembly can be used to traverse the lagoon between flagmen on opposite shores in order to lay down an even spray pattern.

FLAMMABLE LIQUID, CORROSIVE, N.O.S.  
(Dodecylguanidine hydrochloride  
in alcohol and water)

UN 2924

Flash Point 95°F

