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**CYANAMID**

# **CYTOX® 3523 Industrial Biocide**

(FOR CONTROL OF BACTERIA, YEASTS, FUNGI, AND ALGAE IN INDUSTRIAL WATER SYSTEMS)

**DANGER!** KEEP OUT OF REACH OF CHILDREN  
HARMFUL OR FATAL IF SWALLOWED OR ABSORBED THROUGH SKIN  
CAUSES EYE BURNS AND SKIN IRRITATION

Do not get in eyes, on skin, on clothing; wear goggles and rubber gloves.  
Avoid breathing vapor or mist.  
Keep container closed.  
Use with adequate ventilation.  
Wash thoroughly after handling.  
Do not store near food or feed.

## **FIRST AID**

If swallowed, induce vomiting by sticking finger down throat or by giving soapy or strong salty water to drink. Repeat until vomit is clear. Call a physician. Never give anything by mouth to an unconscious person.  
In case of contact, immediately remove contaminated clothing and shoes. Flush eyes or skin with plenty of water for at least 15 minutes. Call a physician. Wash clothing before reuse.

CAUTION: TREATED WATERS MAY BE HARMFUL TO FISH AND OTHER WILDLIFE

## **ACTIVE INGREDIENTS:**

Methylenebisthiocyanate

5%

## **INERT INGREDIENTS**

95%

USDA Reg. No. 1730-

The buyer of this material is granted a license under U. S. Patents Nos. 3,252,855 and 3,300,375 to practice methods of inhibiting the growth of algae and sulfate-reducing bacteria limited to the use of the within contents, a prepaid royalty being included in the selling price. A nontransferable license under either of such patents to practice its methods may be obtained on current royalty terms whatever the source of methylenebisthiocyanate used.

13823 R1 LN

Net Contents: 54 Gallons (440 Pounds)

AMERICAN CYANAMID COMPANY

• Industrial Chemicals Division

• WAYNE N. J.

# DIRECTIONS FOR USE

**PAPER MILLS:** CYTOX<sup>®</sup> 3523 is added to the white-water system or to the stock furnish at a normal rate of 0.2 to 1.1 pounds per ton of paper. The exact dosage will depend upon operating conditions and extent of microbiologic contamination of the system. If slime buildup is heavy, addition is best made in periodic shock dosages such that the total required dosage is added within a two- to four-hour period. Otherwise, the biocide may be metered continuously into the system at the recommended dosage.

**SOLUTIONS AND EMULSIONS:** For the preservation of solutions, emulsions, adhesives, and other liquid products, the addition of 200 parts per million of CYTOX<sup>®</sup> 3523 based on total weight of the product is effective. Do not use in products of this type that are intended for the manufacture of food-packaging materials.

**SECONDARY OIL RECOVERY:** For control of sulfate-reducing bacteria and other microorganisms in water used for secondary oil recovery or subsurface injection, 2 to 16 ounces weight of CYTOX<sup>®</sup> 3523 per 1,000 gallons of water (20 to 124 parts per million of product) as a slug treatment once or twice a day is effective.

**COOLING-WATER SYSTEMS:** CYTOX<sup>®</sup> 3523 controls bacteria, yeasts, fungi and algae in cooling-water systems. The product is best added to recirculating water-cooling towers as a slug treatment at a dosage of 3.32 to 16.50 ounces weight per 1,000 gallons of water (25 to 124 parts of product per million parts of water) one to three times per week depending upon the severity of the problem. Twelve to 26 ounces weight per 1,000 gallons of water, slug-fed daily, may be necessary in systems with heavy microbiologic contamination. If much contamination is present, avoid clogging of screens.

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**DRUM DISPOSAL:** Do not reuse empty drum. Return to drum reconditioner or destroy by perforating or crushing and burying in a safe place.

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*Aug 14 1968*  
