

**Controls Bacteria, Fungi, and Algae
In Industrial Recirculating Cooling Towers
And Once-Through Fresh Water and Seawater
Industrial Cooling Water Systems**

**Controls Slime-Forming Bacteria and Fungi
In Air Washer Systems**

H-430 is a liquid formulation of an organobromine compound designed to provide broad spectrum control of fungi, bacteria, algae, and slime-producing organisms in open recirculating cooling towers, once-through fresh water and seawater industrial cooling systems, and air washer systems.

Broad Spectrum Activity

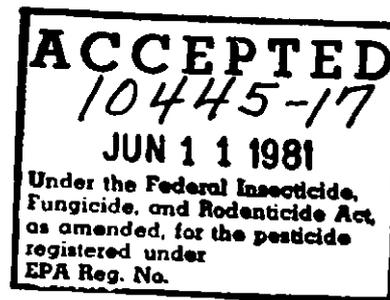
H-430 provides broad spectrum control of slime producing microorganisms such as fungi, bacteria, and algae in open recirculating cooling towers, once-through systems, and air washer systems. When these systems are kept deposit-free they are better able to operate efficiently at, or near, design capacity.

Reduced Energy Requirements

By keeping distribution piping free from clogging biological deposits, pumps can operate against lower head pressures and thus reduce pump energy consumption.

Easy-To-Feed Liquid

H-430 is supplied as a liquid and can be fed directly from the shipping container as received, eliminating the need and cost of premixing treatment chemicals.



FEEED REQUIREMENTS

DIRECTIONS FOR USE

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

Note: Add H-430 SEPARATELY to the system. DO NOT mix it with other additives, in order to avoid decomposition of H-430 due to the high pH of many additive formulations.

Add H-430 to the basin (or any other part) - uniform mixing). Addition should be made with a metering pump. It may be continuous or intermittent, depending on the severity of the contamination when treatment is begun and the retention time in the system.

Optimum performance with this product is attained by continuous or intermittent treatment. If "shock" treatment is used, the blow-down should be discontinued for 24-48 hours

**INDUSTRIAL RECIRCULATING
WATER COOLING TOWERS**

For Control of Bacteria

Add 0.0038-0.038 gal. H-430/1,000 gallons of water in the system, depending on the severity of contamination.

4 days, or as needed to maintain control.

Badly fouled systems must be cleaned before treatment is begun.

Continuous Feed Method

Initial Dose: When the system is noticeably fouled, add 0.019–0.038 gal. H-430/1,000 gallons of water to the system. Subsequently, maintain this level by pumping a continuous feed of 0.0038–0.019 gal. H-430/1,000 gallons of water in the system lost by blowdown.

Badly fouled systems must be cleaned before treatment is begun.

For Control of Algae and Fungi

Add 0.116–0.380 gal. H-430/1,000 gallons of water in the system, depending on the severity of contamination.

Intermittent or Slug Method

Initial Dose: When the system is noticeably fouled, add 0.192–0.380 gal. H-430/1,000 gallons of water in the system. Repeat until control is achieved.

Subsequent Dose: When algae control is evident, add 0.116–0.380 gal. H-430/1,000 gallons of water in the system daily or as needed to maintain control.

Badly fouled systems must be cleaned before treatment is begun.

Continuous Feed Method

Initial Dose: When the system is noticeably fouled, add 0.192–0.380 gal. H-430/1,000 gallons of water to the system.

Subsequent Dose: Maintain this treatment level by pumping a continuous feed of 0.116–0.380 gal. H-430/1,000 gallons of water in the system per day.

Badly fouled systems must be cleaned before treatment is begun.

ONCE-THROUGH INDUSTRIAL COOLING WATER SYSTEMS

For controlling bacteria, fungi, and algae in once-through and closed-cycle fresh and seawater cooling systems, cooling ponds, canals, and lagoons, add H-430 to the system inlet water or before any other contaminated area in the system. Addition should be made with a metering pump; it may be continuous or intermittent depending on the severity of contamination when treatment is begun, and the retention time in the system.

For Control of Bacteria: Add 4–48 ppm H-430 based on the flow rate through the system, depending on the severity of contamination.

Intermittent Method

Initial Dose: When the system is noticeably fouled, add 24–48 ppm H-430. Minimum treatment intervals should be 15 minutes. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 12–48 ppm H-430 intermittently as needed to maintain control.

Badly fouled systems must be cleaned before treatment is begun.

Continuous Feed Method

Initial Dose: When the system is noticeably fouled, add 24–48 ppm H-430 continuously to the system.

Subsequent Dose: When microbial control is evident, pump a continuous feed of 4–24 ppm H-430 to the system.

Badly fouled systems must be cleaned before treatment is begun.

For Control of Fungi and Algae

Add 144–472 ppm H-430 based on the flow rate through the system, depending on the severity of contamination.

Intermittent Method

Initial Dose: When the system is noticeably fouled, add 240–472 ppm H-430 to the system. The minimum treatment interval should be 15 minutes. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 144-472 ppm H-430 to the system daily or as needed to maintain control. The minimum treatment interval should be 15 minutes.

Badly fouled systems must be cleaned before treatment is begun.

Air Washer Systems

Add 0.0078-0.250 gal. H-430/1,000 gallons of water in the system, depending upon the severity of contamination to control slime-forming bacteria and fungi in industrial air washer systems.

Intermittent or Slug Method

Initial Dose: When the system is noticeably fouled, add 0.156-0.250 gal. H-430/1,000 gallons of water in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 0.0078-0.125 gal. H-430/1,000 gallons of water in the system every 2 days or as needed to maintain control.

Badly fouled systems must be cleaned before treatment is begun.

Continuous Feed Method

Initial Dose: Maintain this level by pumping a continuous feed of 0.156-0.250 gal. H-430/1,000 gallons of water in the system per day.

Subsequent Dose: Maintain this level by pumping a continuous feed of 0.0078-0.125 gal. H-430/1,000 gallons of water in the system per day.

Badly fouled systems must be cleaned before treatment is begun.

TYPICAL PHYSICAL PROPERTIES

Active Ingredient	5% 2,2-dibromo-3-nitrilopropionamide
Appearance	pale green to reddish brown liquid
Weight	9.5-9.7 lb./gallon
Odor	little or none
Specific Gravity	1.14-1.17
Freeze Point	-20°C
Flash Point	> 360°C (COC)

SHIPPING

H-430 is available in 5 gallon (40 lbs. net weight) pails and 30 gallon (275 lbs. net weight) drums and bulk through the Calgon® Bulk Liquid Services. Freight Classification: Disinfectants other than medicinal and toilet preparations.

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Hazards to humans and domestic animals.

Danger: Causes severe burns of eyes. May cause skin irritation. May be harmful if swallowed.

Do not get in eyes, on skin, or clothing. Wear Chemical Worker's Goggles when handling. **FIRST AID:** In case of eye contact, flush eyes immediately with plenty of water for at least 15 minutes and get medical attention. In case of skin contact, wash with soap and plenty of water. Wash contaminated clothing before reuse. Get medical attention if irritation persists.

If swallowed, call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger or, if available by administering syrup of ipecac. Do not induce vomiting or give anything by mouth to an unconscious person.

WASH THOROUGHLY AFTER HANDLING.

Environmental Hazards

This product is toxic to fish. Apply this product only as specified on this label. Do not contaminate water by cleaning of equipment, or disposal of wastes.

NOTE: Do not discharge into lakes, streams, ponds, or public waters unless in accordance with a NPDES permit. For guidance contact the regional office of the EPA.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instruction, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

Storage and Disposal

Keep container tightly closed when not in use. Do not reuse empty container. RETURN TO DRUM RECONDITIONER, or destroy by perforating or crushing and burying or discarding in a safe place away from water supplies.

TO MAINTAIN PRODUCT QUALITY, STORE AT TEMPERATURES BELOW 60°C.

For information regarding incidents involving human and environmental exposures, call (412) 777-8000 and request to speak to Regulatory and Trade Affairs

Calgon representatives are located at service centers throughout the United States, ready to help you on any boiler or cooling water treatment program. For assistance, contact the closest Calgon Regional Office.

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