

PRINCIPAL USES

NALCO 21-M is a solid formulation of sodium pentachlorophenate for control of bacterial and fungal slime in industrial recirculating cooling water towers.

NOTE: NALCO 21-M is intended for industrial use only. Do not apply to potable or domestic water systems.

GENERAL DESCRIPTION

A sodium pentachlorophenate based formulation containing dispersants, penetrants and stabilizers. Supplied in ball briquette or pellet form.

Color Light tan
Odor Phenolic
pH of 1% Solution 11.3
Size of Ball 3" Diameter
Weight of Ball 15 ounces
Pellets per Pound Approx 60

HANDLING

NALCO 21-M may cause skin irritation and may be harmful if swallowed. Do not get in eyes, on skin, or on clothing. Do not breathe dust or solution spray. Wash thoroughly after handling. In case of contact, wash skin with soap and plenty of water; for eyes, immediately flush with large amounts of water for at least 15 minutes, and get medical attention. Remove contaminated clothing and wash before reuse.

NALCO CHEMICAL COMPANY

INDUSTRIAL DIVISION - WATER TREATMENT CHEMICALS
180 N. MICHIGAN AVENUE - CHICAGO, ILLINOIS 60601

SUBSIDIARIES IN BRAZIL, COLOMBIA, ITALY, MEXICO, SPAIN, SWEDEN, SWITZERLAND, VENEZUELA AND WEST GERMANY. AFFILIATES IN AUSTRALIA, CANADA, SOUTH AFRICA, UNITED KINGDOM AND THE UNITED STATES.



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DOSAGE AND FEEDING

Feed NALCO 21-M at 350-400 ppm (29-33 lbs per 10,000 gallons of system water) weekly or as needed to achieve control. Heavily fouled systems may require pre-cleaning. Once desired degree of control has been achieved, feed NALCO 21-M at 50-250 ppm (4-21 lbs per 10,000 gallons of system water) weekly or as needed to maintain control.

NOTE: Chlorine levels in excess of 10 ppm may inactivate this product.

Application of NALCO 21-M should be based on visual inspection, microbiological analyses and the recommendations of a Nalco Representative.

Feed NALCO 21-M at a point in the system where it will be uniformly mixed and evenly distributed, such as the cooling tower basin or sump.

NALCO 21-M may be fed using either a tube or ball feeder or directly to the system. If solution feed is desired, a 3-5% solution can be made with warm water. NALCO 21-M is non-corrosive to ordinary metals used in feeding equipment.

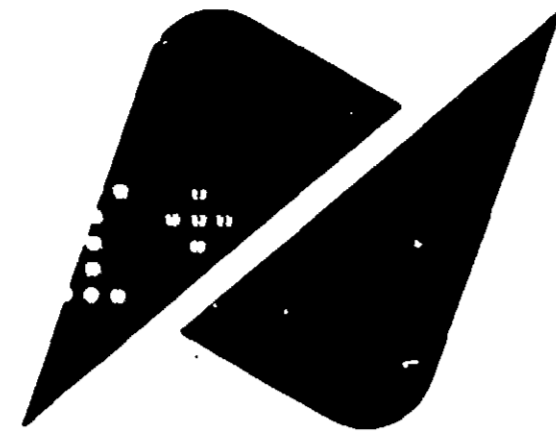
This product is intended for industrial use only. Do not apply to potable water or domestic water system.

This product is toxic to fish and wildlife. Do not discharge treated effluent where it will drain into lakes, streams, or ponds. Do not contaminate water by cleaning of equipment or disposal of waste.

SHIPPING AND STORAGE

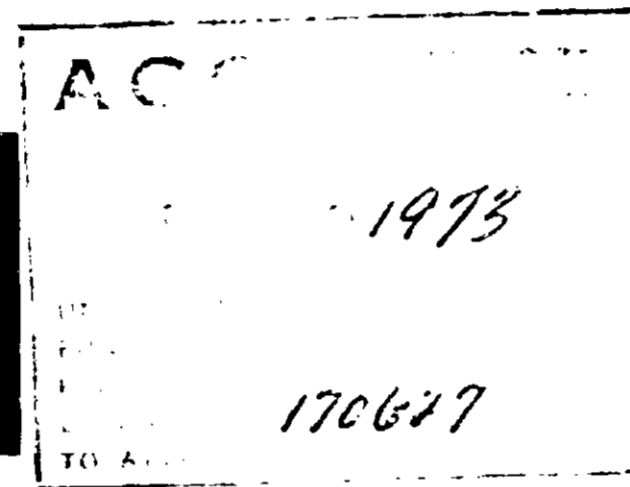
NALCO 21-M ball briquettes are shipped in 300-pound fiber drums, and NALCO 21-M pellets are shipped in 50-pound multi-wall bags.





NALCO®

201



MICROORGANISM CONTROL CHEMICAL

ACTIVE INGREDIENTS: (% by Weight)	
Potassium Pentachlorophenate	15.7%
Potassium 2,4,5-Trichlorophenate	9.0%
Potassium Salts of Other Chlorophenols	1.8%
INERT INGREDIENTS*:	73.5%
Total	100.0%

*Inert ingredients include dispersants, penetrants and stabilizers.

1 gallon contains 2.61 lb Potassium Chlorophenate

EPA Registration No. 1706-27

NALCO CHEMICAL COMPANY

6216 WEST 66TH PLACE

CHICAGO, ILLINOIS 60638

NET CONTENTS SHOWN ELSEWHERE ON CONTAINER

DIRECTIONS:

PAPER MILLS – For bacterial and fungal slime control in pulp, paper and paperboard mill systems use 0.5–1.0 pounds of NALCO 201 per ton of pulp or paper, dry basis, depending on severity of contamination. NALCO 201 may be applied anywhere in the system prior to sheet formation or to the recirculating white water.

COOLING TOWERS – For bacterial and fungal slime and algae control in recirculating cooling water towers add 150–300 ppm NALCO 201 (1.33 to 2.5 gallons per 10,000 gallons system water) to achieve control. Badly fouled systems must be pre-cleaned before treatment is begun. Repeat until control is evident. Once the desired degree of control has been achieved add 75–150 ppm NALCO 201 (0.66–1.33 gallons per 10,000 gallons of system water) weekly or as needed to maintain control. Apply NALCO 201 to a point in the system where it will be uniformly mixed and evenly distributed.

PRESERVATIVE APPLICATIONS – For preservative application in coating formulations and chemical solutions (starch and protein) use 200–500 ppm NALCO 201 (1¼–4¼ gallons per 10,000 gallons of formulation or solution). For glue solutions use 600 ppm NALCO 201 (0.5 gallons/1,000 gallons of glue).

For preservation of cooling tower lumber use 100–200 pounds (10.2–20.4 gallons) NALCO 201 per 10,000 feet of plenum section.

Feed NALCO 201 directly from drum or diluted with water. For preservation of lumber, steam spray application is preferred. Technical assistance on individual site problems obtainable from your Nalco representative.

NOTE: NALCO 201 INTENDED FOR INDUSTRIAL USE ONLY. Do not apply to potable water or domestic water systems.

This product is toxic to fish. Treated effluent should not be discharged where it will drain into lakes, streams, ponds or public waters. Do not contaminate water by cleaning of equipment or disposal of waste.

Do not reuse container. Destroy when empty. Use this product only as specified on this label.

WARNING: KEEP OUT OF THE REACH OF CHILDREN. HARMFUL IF SWALLOWED, MAY CAUSE EYE INJURY AND SKIN IRRITATION.

Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Avoid breathing of vapor. Use with adequate ventilation. Keep container closed when not in use. In case of contact, immediately flush eyes or skin with large amounts of water for at least 15 minutes; for eyes, also get medical attention. Remove contaminated clothing.