PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS:
DANGER: Corrosive. Causes severe burns of eyes, may burn skin. May be harmful or fatal if swallowed. Do not get in eyes, on skin, or on clothing. Wear chemical workers’ goggles and rubber gloves when handling. Do not inhale fumes or vapor. Wash thoroughly after handling.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and aquatic organisms. Apply this product only as specified on this label. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

STORAGE AND DISPOSAL: Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: To maintain product quality, store at temperatures below 80 degrees C. Keep container tightly closed when not in use.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/3 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use of disposal. Repeat this procedure two more times. Then offer for recycling if available or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities by burning. If burned, stay out of smoke.

HMIS/NPCRA Rating
Health 1 Flammability 1 Reactivity 1

Reputain D20
Antimicrobial

Controls bacteria, fungi and algae in industrial recirculating cooling water towers, and reverse osmosis systems; controls slime-forming bacteria and fungi in air-washer systems. FOR INDUSTRIAL USE ONLY.

ACTIVE INGREDIENT(S):
2,3-Dibromom-2-nitropropanamide .................................................... 20.0%
Inert Ingredients ............................................................................. 80.0%
Total ................................................................................................ 100.0%

KEEP OUT OF REACH OF CHILDREN

DANGER

FIRST AID:
If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor for treatment advice.
If on Skin, Clothes: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for treatment advice.
If Swallowed: Call Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a Poison Control Center or doctor. Do not give anything by mouth to an unconscious person.
If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible. Call a Poison Control Center or doctor for further treatment advice.

HOT LINE NUMBER: Have the product container or label with you when calling a Poison Control Center or doctor, or going for treatment. You may also contact 1-800-654-8511 for emergency medical treatment information.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

MANUFACTURED FOR:

Arch Chemicals, Inc.

5660 New Northside Drive, Suite 1100
Atlanta, GA 30328

REPUTAIN® is a registered trademark of Arch UK Biocides Ltd.

EPA Reg. No. 1448-72-1258

EPA EST NO. 1258-NY-3

NET CONTENTS: 507 LBS
DIRECTIONS FOR USE

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

NOTE: Reputain D20 Antimicrobial must be added separately to systems. Do not mix it with other additives; the high pH of many additive formulations will cause decomposition of Reputain D20 Antimicrobial.

COOLING WATER SYSTEMS: Reputain D20 Antimicrobial is used to control the growth of algae, fungi, and bacteria in commercial and industrial recirculating cooling water systems. If the system is badly fouled, it is recommended that before treatment with Reputain D20 Antimicrobial is begun, the system should be cleaned thoroughly, drained, flushed, and refilled with fresh water. Reputain D20 Antimicrobial should then be added to the water cooling tower sump, continuously or intermittently, as required to maintain control. If “shock” dosing is used, the blowdown should be discontinued for 24 - 48 hours after treatment.

FOR CONTROL OF FUNGI AND ALGAE: If intermittent or slug dose treatment is used, add an initial dose of 48 - 95 mL Reputain D20 Antimicrobial per cubic meter water (0.048 - 0.095 gal Reputain D20 Antimicrobial per 1000 gal water), based on the total volume of water in the system. Repeat until control is evident. Then treat the system daily, or as needed to maintain control, with 29 - 95 mL Reputain D20 Antimicrobial per cubic meter water (0.029 - 0.095 gal Reputain D20 Antimicrobial per 1000 gal water) in the system. If the continuous feed method of treatment is used, make initial dose as described above. Then treat daily, or as needed, with 29 - 95 mL in the system by means of a chemical-metering pump.

FOR CONTROL OF BACTERIA: If intermittent or slug dose treatment is used, add an initial dose of 4.8 - 9.5 mL Reputain D20 Antimicrobial per cubic meter water (0.0048 - 0.0095 gal Reputain D20 Antimicrobial per 1000 gal water), based on the total volume of water in the system. Repeat until control is evident. Then treat every 4 days, or as needed to maintain control, with 2.4 - 9.5 mL Reputain D20 Antimicrobial per cubic meter water (0.0024 - 0.0095 gal Reputain D20 Antimicrobial per 1000 gal water) in the system. If the continuous feed method of treatment is used, make initial dose as described above and repeat until control is evident. Then treat continuously with 0.48 - 4.8 mL Reputain D20 Antimicrobial per cubic meter water (0.0048 - 0.048 gal Reputain D20 Antimicrobial per 1000 gal water) based on the total volume of makeup water.

AIR WASHER SYSTEMS: Reputain D20 Antimicrobial is used to control slime-forming bacteria and fungi in industrial air-washer systems, by intermittent or continuous treatment of the water in the system. The system should be cleaned, refilled with fresh water, and treated regularly with Reputain D20 Antimicrobial. If intermittent or slug dose treatment is employed, add an initial dose of 3 - 95 mL Reputain D20 Antimicrobial per cubic meter water (0.003 - 0.095 gal per 1000 gal water), based on the total volume of water in the system. Repeat until control is evident. Then treat every 2 days, or as needed to maintain control, with 1.5 - 47 mL Reputain D20 Antimicrobial per cubic meter water (0.0015 - 0.047 gal Reputain D20 Antimicrobial per 1000 gal water) in the system. If the continuous feed method of treatment is used, make initial dose as described above and repeat until control is evident. Then treat daily, or as needed, with 1.5 - 47 mL Reputain D20 Antimicrobial per cubic meter water (0.0015 - 0.047 gal Reputain D20 Antimicrobial per 1000 gal water) in the system, by means of a chemical-metering pump.

REVERSE OSMOSIS SYSTEMS: Reputain D20 Antimicrobial may be used to control microbiological fouling in reverse osmosis systems use for process wastewater and other non-potable applications. Reputain D20 Antimicrobial should be fed to the membrane feedwater at a rate of 20 - 80 ppm (2.75 - 11.0 ft. oz./1000 gal.). The product should be added continuously for a time period of 1 - 24 hours, 1 - 7 days each week depending on the severity of the problem. For off-line cleaning, Reputain D20 Antimicrobial should be added to provide a level of 100 - 400 ppm (13.75 - 55 ft. oz./1000 gal.) in the soak solution.

INDUSTRIAL PRESERVATIVE APPLICATIONS: Reputain D20 Antimicrobial may be used to reduce microbiological contamination in raw materials and/or products such as aqueous paints and coatings, polymers, slurries, adhesives, latex and resin emulsions, sizing, caulks, process water, along with specialty industrial products including inks, polishes, waxes, detergents, and cleansers. To reduce microbiological contamination add Reputain D20 Antimicrobial to the material or product at a concentration of 25 to 2,000 ppm by weight. This concentration is equivalent to 2.8 to 224.0 fluid ounces Reputain D20 Antimicrobial per 1,000 gallons or 21.4 to 1,712.0 milliliters Reputain D20 Antimicrobial per 1,000 liters. The required concentration will depend on the material being treated and level of contamination present.

DIRECTIONS FOR TREATING PUBLICLY-OWNED TREATMENT WORKS TO CONTROL COLIFORM AND OTHER BACTERIA: Add Reputain D20 Antimicrobial at a concentration of 1.0 to 10.0 ppm by weight of water being treated, depending on the severity and contamination in the system. Addition should be CONTINUOUS and should be made with a metering pump at a point in the system where mixing will be rapid and thorough. Add Reputain D20 Antimicrobial to the system in a location where contact time will be 30 minutes or greater before reaching the outfall.

TO USE AS A CO-TREATMENT WITH CHLORINE: Add 0.4 - 0.15 ppm Reputain D20 Antimicrobial by weight of water treated. Chlorination should result in a minimum detectable residual (i.e., greater than zero but less than the NPDES permit level). Additional should be CONTINUOUS and made at a point just after the initial chlorine mixing. Rapid mixing is necessary for maximum effectiveness. Reputain D20 Antimicrobial should be added at a location where a contact time of 10 minutes or longer will be provided before reaching the outfall.
Precautionary Statements: Hazards to Humans and Domestic Animals. Danger: Causes severe burns of eyes. May burn skin. May be harmful or fatal if swallowed. Do not get in eyes, on skin, or on clothing. Wear chemical-resistant gloves and rubber gloves when handling. Do not inhale fumes or vapors. Wash thoroughly after handling.

Environmental Hazards: This pesticide is toxic to fish and aquatic organisms. Apply this product only as specified on the label. Do not contaminate water by cleaning of equipment or disposal of waste. Do not discharge effluent containing this product into lakes, streams, ponds, ditches, or other bodies of water unless otherwise permitted by the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewage systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Storage and Disposal. Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage. To maintain product quality, store at temperatures below 60 degrees C. Keep container tightly closed when not in use.

Reputant D20 Antimicrobial

Controls bacteria, fungi and algae in industrial recirculating cooling water towers, and reverse osmosis, evaporation, controls time-tracking bacteria and fungi in air-water systems. For Industrial Use Only.

Active Ingredients: 2,2-Dimethoxy-2-methylpropanol. 20.0%
Tetrafluoropentanol. 80.0%
Total. 100.0%

KEEPS OUT OF REACH OF CHILDREN

DANGER

FIRST AID:
1. In Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor for treatment advice.
2. On Skin: Wash thoroughly with soap and water for at least 15 minutes. Call a Poison Control Center or doctor for treatment advice.
3. Inhale: If inhaled, move person to fresh air. If not breathing, call 911 or other emergency service. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

HOTLINE NUMBER: Have the product container or label with you when calling a Poison Control Center or doctor, or going for treatment. You may also contact 1-800-884-8691 for emergency medical treatment information.

NOTE TO PHYSICIAN: Probable mucosal damage may compromise the use of gastric lavage.

MANUFACTURED FOR:
Arch Chemicals, Inc.
5860 New Northside Drive, Suite 1100
Atlanta, GA 30328

REPUTAN® is a registered trademark of Arch Chemicals Ltd.

EPA EST. NO. 1285-NY-3
NET CONTENTS: 507 lbs

DIRECTIONS FOR USE

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

NOTE: Reputant D20 Antimicrobial must be added separately to systems. Do not mix with other additives, the high pH of many additive formulations will cause decomposition of Reputant D20 Antimicrobial.

Cooling Water Systems: Reputant D20 Antimicrobial is used to control the growth of algae, fungi, and bacteria in commercial and industrial recirculating cooling water systems. If the system is properly treated, it is recommended that before treatment with Reputant D20 Antimicrobial is begun, the system should be cleaned thoroughly, drained, flushed, and refilled with fresh water. Reputant D20 Antimicrobial should then be added to the water cooling tower sump, continuously or intermittently, as required to maintain control. If "nozzled" dosing is used, the blowdown should be discontinued for 24-48 hours after treatment.

For Control of Fungi and Algae: If intermittent or slug dose treatment is used, add an initial dose of 40-60 mL Reputant D20 Antimicrobial per cubic meter water (0.048-0.069 gal Reputant D20 Antimicrobial per 1000 L water), based on the total volume of water in the system. Repeat until control is evident. Then treat the system daily, or as needed to maintain control, with 25-75 mL Reputant D20 Antimicrobial per cubic meter water (0.029-0.069 gal Reputant D20 Antimicrobial per 1000 L water) in the system. If the continuous feed method of treatment is used, make initial dose as described above and repeat until control is evident. Then treat continuously with 0.48-0.46 mL Reputant D20 Antimicrobial per cubic meter water (0.00046-0.00046 gal Reputant D20 Antimicrobial per 1000 L water), based on the total volume of water in the system. Repeat until control is evident.

For Control of Bacteria: If intermittent or slug dose treatment is used, add an initial dose of 4.0-9.5 mL Reputant D20 Antimicrobial per cubic meter water (0.0048-0.0095 gal Reputant D20 Antimicrobial per 1000 L water), based on the total volume of water in the system. Repeat until control is evident. Then treat every 4 days, as needed to maintain control, with 2.4-5.0 mL Reputant D20 Antimicrobial per cubic meter water (0.0024-0.0050 gal Reputant D20 Antimicrobial per 1000 L water) in the system. If the continuous feed method of treatment is used, make initial dose as described above and repeat until control is evident. Then treat daily, or as needed with 1.5-4.7 mL Reputant D20 Antimicrobial per cubic meter water (0.0015-0.0047 gal Reputant D20 Antimicrobial per 1000 L water) in the system, by means of a chemical-metering pump.

Air Washer Systems: Reputant D20 Antimicrobial is used to control slime-forming bacteria and fungi in industrial air-washer systems. By intermittent or continuous treatment of the water in the system. The system should be cleaned, refilled with fresh water, and treated regularly with Reputant D20 Antimicrobial. If intermittent or slug dose treatment is employed, add an initial dose of 3.0-9.0 mL Reputant D20 Antimicrobial per cubic meter water (0.030-0.090 gal Reputant D20 Antimicrobial per 1000 L water), based on the total volume of water in the system. Repeat until control is evident. Then treat every 2 days, or as needed to maintain control, with 1.5-4.7 mL Reputant D20 Antimicrobial per cubic meter water (0.0015-0.0047 gal Reputant D20 Antimicrobial per 1000 L water) in the system. If the continuous feed method of treatment is used, make initial dose as described above and repeat until control is evident. Then treat daily, or as needed with 1.5-4.7 mL Reputant D20 Antimicrobial per cubic meter water (0.0015-0.0047 gal Reputant D20 Antimicrobial per 1000 L water) in the system, by means of a chemical-metering pump.

Reverse Osmosis Systems: Reputant D20 Antimicrobial may be used to control microbiological fouling in reverse osmosis systems used for process wastewater and other non-potable applications. Reputant D20 Antimicrobial should be fed to the membrane feedwater at a rate of 2.0-9.0 ppm (2.15-11.0 oz./1000 gal.) The product should be added continuously for a time period of 1-24 hours, 1-3 days each week depending on the severity of the problem. For off-line cleaning, Reputant D20 Antimicrobial should be added to provide a level of 106-400 ppm (13.5-55.1 oz./1000 gal.) in the aseptic solution.

Industrial Preparative Applications: Reputant D20 Antimicrobial may be used to reduce microbiological contamination in raw materials and various types of aqueous paints and coatings, polymers, surfactants, adhesives, latex and resin emulsions, sizing, caulk, process water, along with specialty industrial products including fuels, solvents, waxes, diluents, and emulsifiers. To reduce microbiological contamination add Reputant D20 Antimicrobial to the material or product at a concentration of 25-250 ppm by weight. This concentration is equivalent to 0.1 to 1.0 parts per million of Reputant D20 Antimicrobial per 1000 gallons or 24 to 112.0 microliters Reputant D20 Antimicrobial per 1000 liters. The required concentration will depend on the material being treated and level of contamination present.

Directions for Treating Publicly-Owned Treatment Works to Control Coliform and Other Bacteria: Add Reputant D20 Antimicrobial at a concentration of 1.0 to 10.0 ppm by weight of water being treated, depending on the severity and contamination in the system. Additional should be CONTINUOUS and should be made at a metering pump at a point in the system where mixing will be rapid and thorough. Add Reputant D20 Antimicrobial to the system in a location where contact time will be 30 minutes or greater before reaching the outlet.

To Use as a Co-Treatment with Chlorine: Add 0.4 - 0.15 ppm Reputant D20 Antimicrobial by weight of water treated. Chlorination should result in a minimum desirable residual (i.e., greater than the WPDSS permit level). Additional should be CONTINUOUS and made at a point just after the initial chlorine mixing. Rapid mixing is necessary for maximum effectiveness. Reputant D20 Antimicrobial should be added at a location where a contact time of 10 minutes or longer will be provided before reaching the outlet.

Material Code N0255 Reputant D20 Antimicrobial (GT) 2/3/2011