DuroCide C100-G

A MICROBIOICAL BACTERICIDE, FUNGICIDE, ALGACIDE AND SLIMECIDE, USED IN TREATING REINCIRCULATING COOLING WATER IN INDUSTRIAL COOLING SYSTEMS, FAPER MILLS, NORTHERN PASTEURIZER WATER, NON-FOOD PROCESSING SYSTEMS, WASHER SYSTEMS, INDUSTRIAL PRESERVATION APPLICATIONS AND PUBLICLY OWNED TREATMENT WORKS.

ACTIVE INGREDIENT: 2,2-Dichloro-3-nitropropionamide

TOTAL: 99%

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 further treatment advice.

If inhaled:
Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

If swallowed:
Call a 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

If on skin or clothing:
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 skin is burned:
Call a poison control center or doctor immediately for treatment advice. Have person sit or lie in a comfortable position. Cover burned area with sterile, non-stick bandages or a clean cloth.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

See side panels for additional precautionary statements.

MANUFACTURED BY:

APTech Group Inc.

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Cincinnati, OH 45241
Phone: 866-489-9831

EPA Reg. No. 88714-6-55400
EPA Est. No. 12487-CH-1

LOT:

NET CONTENTS:

Transportation Emergency (Spill) Tel: 800-255-3592 ChemTel

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

Contact with eyes, skin or clothing may cause irreversible eye damage. May be fatal if swallowed. Do not get in eyes, on skin or on clothing. Do not breathe dust. When handling or cleaning affected equipment, use goggles or face shield, chemical-resistant gloves, long-sleeved shirts, long pants, shoes and gloves. Disposal of frequently handled skin contact may cause allergic reaction in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment: (PPE)
Long sleeve shirt, long pants, shoes, gloves, eye protection, approved respirator, chemical-resistant gloves and a chemical-resistant apron must be worn when handling.

User Safety Requirements
Users must wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users must remove clothing immediately if pesticide gets inside.

Wash the outside of gloves before removing. Keep and wash PPE separately from other laundry. Then wash thoroughly and put in clean clothing. Users must remove PPE immediately after handling this product.

Follow manufacturer's instructions for cleaning/sterilizing PPE. If no such instructions are available, wash, delint and hot water.

Keep and wash PPE separately from other laundry.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and invertebrates. Do not contaminate water by cleaning of equipment or disposal of wastewater. Do not disperse effluent containing this product into lakes, streams, ponds, estuaries, bays, or other waterways in accordance with the requirements of a National Pollutant Discharge Elimination System permit and the permitting authority has been notified in writing prior to discharge. Do not disperse effluent containing this product to sewer systems without previously notifying the local sewage treatment plant operator. For guidance, contact your State Water Board or Regional Office of the EPA.

CHEMICAL AND PHYSICAL HAZARDS

Reaction with strong reducing agents may be explosive. Avoid comminution and dusting.

STORAGE AND DISPOSAL

Do not store near water, food, or feed by storage or disposal.

PESTICIDE STORAGE

Store in a dark, cool, dry, well-ventilated area, well-sealed original containers, away from energy sources, combustible materials, fumes, and moisture.

PESTICIDE DISPOSAL

Pesticide containers should not be disposed of in hazardous improper disposal of excess pesticides, spray mixture or rinse water is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, Pesticide Program staff at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING

Non-refillable container. Do not reuse or refill this container. Three rinse (container or equivalent) promptly after emptying. Rinse as follows: Empty remaining contents into application equipment or mix tank. Fill the container 1/4 full with water and close tightly. Shake for 10 seconds. Pour into application equipment or a mix tank or store rinse in a later use or disposal. Clean for 10 seconds after the rinse has been drained. Repeat this procedure two times. Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration.

Non-refillable container. Do not reuse or refill this container. When all water soluble bags are used, then open container and store in an area which will be kept free of any other chemicals or water. Addition can be continuous or intermittent, depending upon the type of system and the severity of contamination. Addition is via a metering pump at a point in the system that will ensure uniform distribution of this product in the mass of fiber and water, such as in the dam, into the drawing, or mixing device, or in a water tank. Heavy lysing systems must be first bleached out, then treated with 0.02 - 0.07 lb of this product (dry) per 1000 lbs of paper. Heavily lysing systems may be pre-bleached with 0.01 - 0.05 lb of this product. Subsequent rates can be reduced to 0.02 - 0.07 lb of this production (dry) per 1000 lbs of paper or paperboard based on the severity and/or need for additional control. Moderately lysed systems must be treated continuously with 0.06 - 0.07 lb of this product (dry) per 1000 lbs of paper. Subsequent rates can be reduced to 0.02 - 0.07 lb of this production (dry) per 1000 lbs of paper or paperboard. Systems remaining systems may be pre-bleached with 0.01 - 0.05 lb of this product. Subsequent rates can be reduced to 0.02 - 0.07 lb of this production (dry) per 1000 lbs of paper or paperboard.

TREATING PULP AND PAPER MILL SYSTEMS

NOTE: Use this product separately to the system. Do not mix it with other additives, so as to avoid decomposition of this product due to the high pH of many additive formulations. For the control of some harmful bacteria, fungal and yeast growth in pulp, paper, and paperboard mills, add this to the system at levels of 0.02 - 0.07 lb of this product (dry) per 1000 lbs of paper or paperboard. Addition can be continuous or intermittent, depending upon the type of system and the severity of contamination. Addition is via a metering pump at a point in the system that will ensure uniform distribution of this product in the mass of fiber and water, such as in the dam, into the drawing, or mixing device, or in a water tank. Heavy lysing systems may be pre-bleached with 0.01 - 0.05 lb of this product. Subsequent rates can be reduced to 0.02 - 0.07 lb of this production (dry) per 1000 lbs of paper. Heavily lysing systems may be pre-bleached with 0.01 - 0.05 lb of this product. Subsequent rates can be reduced to 0.02 - 0.07 lb of this production (dry) per 1000 lbs of paper. Subsequent rates can be reduced to 0.02 - 0.07 lb of this production (dry) per 1000 lbs of paper or paperboard. Systems remaining systems may be pre-bleached with 0.01 - 0.05 lb of this product. Subsequent rates can be reduced to 0.02 - 0.07 lb of this production (dry) per 1000 lbs of paper or paperboard.

DIRECTIONS FOR USE

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

TREATING REINCIRCULATING COOLING WATER IN INDUSTRIAL OR COMMERCIAL COOLING SYSTEMS

NOTE: Add this product separately to the system. Do not mix it with other additives, so as to avoid decomposition of this product due to the high pH of many additive formulations. For the control of some harmful bacteria, fungal and yeast growth in pulp, paper, and paperboard mills, add this to the system at levels of 0.02 - 0.07 lb of this product (dry) per 1000 lbs of paper or paperboard. Addition can be continuous or intermittent, depending upon the type of system and the severity of contamination. Addition is via a metering pump at a point in the system that will ensure uniform distribution of this product in the mass of fiber and water, such as in the dam, into the drawing, or mixing device, or in a water tank. Heavy lysing systems may be pre-bleached with 0.01 - 0.05 lb of this product. Subsequent rates can be reduced to 0.02 - 0.07 lb of this production (dry) per 1000 lbs of paper. Subsequent rates can be reduced to 0.02 - 0.07 lb of this production (dry) per 1000 lbs of paper or paperboard. Systems remaining systems may be pre-bleached with 0.01 - 0.05 lb of this product. Subsequent rates can be reduced to 0.02 - 0.07 lb of this production (dry) per 1000 lbs of paper or paperboard.

WARRANTY

Sellers warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with label directions under normal conditions of use, but to the extent consistent with applicable law, either this warranty or any other warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions, or under economic conditions, or under conditions not reasonably foreseeable to Seller. Any such warranty is void.

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TREATING NON-POTABLE REVERSE OSMOSIS SYSTEMS

For controlling bacteria, fungi and algae slime in non-potable Reverse Osmosis Systems and permeate recovery, add this product to the system inlet water or before any other contamination area ahead of the Reverse Osmosis unit. This product must be added with a metering pump on an intermittent basis depending on the severity of contamination and the guidelines specified by the membranes manufacturer for this product. Add sufficient of this product to achieve a concentration of 0.2 – 2.0 ppm in the feedwater. During use of this product both permeate and reject waters must be discarded to the drain. Once treatment is complete, mixing with feedwater must continue until conductivity values in the permeate are at or below values before treatment with this product. Badly fouled systems must be cleaned before treatment is begun.

FOR CONTROL OF BACTERIA

Initial Dose: When the system is noticeably fouled, add sufficient of this product to achieve a concentration of 1.2 – 2.0 ppm active ingredient in the feedwater. Minimum treatment intervals must be 15 minutes. Repeat until control is achieved or as specified by guidelines recommended by the membrane manufacturer.

Subsequent Dose: When microbial control is achieved, maintain a concentration of 0.6 – 2.4 ppm of this product in the feedwater, or as specified by guidelines recommended by the membrane manufacturer.

FOR CONTROL OF FUNGI AND ALGAE

Initial Dose: When the system is noticeably fouled, add 12.0 – 24.0 ppm of this product to the feedwater. Minimum treatment intervals must be 15 minutes. Repeat until control is achieved or as specified by guidelines recommended by the membrane manufacturer.

Subsequent Dose: When microbial control is achieved, maintain a concentration of 7.2 – 24.0 ppm of this product in the feedwater, or as specified by guidelines recommended by the membrane manufacturer.

TREATING BREWERY PASTEURIZER WATER

For controlling (or inhibiting) the growth of bacteria, fungi or yeasts in brewery pasteurizing water systems, add this product at a point in the system to insure uniform mixing via metering pump or chemical feed disperser with control release mechanism that accompanies this product’s container.

Initial or Slug Dose: When the system is noticeably fouled, add sufficient of this product to achieve a concentration of 0.8 ppm active ingredient in the system. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, maintain a concentration of 2.4 – 48.4 ppm of this product in the system, or as needed to maintain control. Additions of this product can be made continuously or intermittently. Slug the system as required. Badly fouled systems must be cleaned before treatment is begun.

DIRECTIONS FOR TREATING AIR-WASHER SYSTEMS

Add sufficient of this product via metering pump or chemical feed disperser with control release mechanism that accompanies this product’s container to reach a concentration in the system of 0.35 – 22.1 ppm active ingredient, depending on the severity of contamination to control slime-forming bacteria and fungi in industrial air washing systems.

INTERMITTENT OR SLUG METHOD

Initial Dose: When the system is noticeably fouled, add sufficient of this product to reach a concentration in the system of 0.7 – 22.1 ppm active ingredient. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add sufficient of this product every 2 days to reach a concentration in the system of 0.35 – 10.9 ppm active ingredient, 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 sufficient of this product to reach a concentration in the system of 0.7 – 22.1 ppm active ingredient.

Subsequent Dose: Maintain this level by pumping a continuous feed of 0.35 – 10.9 ppm active ingredient in the system per day. Badly fouled systems must be cleaned before treatment is begun.

NOTE: For use only in industrial air-washer systems that maintain effective mist-eliminating components.

DIRECTIONS FOR INDUSTRIAL PRESERVATION APPLICATIONS

This product 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, epoxy, creosol, process water, along with specialty industrial products including: inks, polishes, waxes, detergents, and cleaners.

TO REDUCE MICROBIOLOGICAL CONTAMINATION

Add this product to the raw material or product at a concentration of 0.4 to 408 ppm by weight. This concentration is equivalent to 0.036 to 2.864 lbs. of this product per 1,000 gallons. The required concentration will depend on the material being treated and the level of contamination present.

DIRECTIONS FOR TREATING PUBLICLY OWNED TREATMENT WORKS TO CONTROL COLIFORM AND OTHER BACTERIA

Add sufficient of this product to reach a concentration in the system of 0.2 to 2.0 ppm active ingredient by weight of water being treated, depending on the severity and contamination in the system. Additional must be CONTINUOUS and must be made with a metering pump at a point in the system where mixing will be rapid and thorough. Add this product to the system in a location where contact time will be 30 minutes or more.

TO USE AS A CO-TREATMENT WITH CHLORINE

Add sufficient of this product to reach a concentration in the system of 0.1 to 0.3 ppm of this product active ingredient by weight of water treated. Chlorination must result in a minimum detectable residual (i.e., greater than zero but less than the NPGES permit level). Addition must be CONTINUOUS and made at a point just after initial chlorine mixing. Rapid mixing is necessary for maximum effectiveness. This product must be added at a location where a contact time of 15 minutes or longer will be provided before reaching the outfall.