Buckman BUSAN 94

Controls bacteria, fungi and yeasts in papermill, controls bacteria, fungi, and algae in industrial reconditioning cooling water towers, fresh and sea water industrial cooling water systems, and reverse osmosis systems; controls slime-forming bacteria and fungi in all-water systems. FOR INDUSTRIAL USE ONLY.

ACTIVE INGREDIENT(S)
2,4-Dichloro-3-nitropropanamide
30.0%

INERT INGREDIENTS
80.0%

TOTAL
100.0%

KEEP OUT OF REACH OF CHILDREN

DANGER

If In Eyes:
Hold eye open and rinse slowly and gently with water for 15-20 minutes.

If On Skin:
Rinse skin immediately with plenty of water for 15-20 minutes.

If Swallowed:
Have person sip a glass of water, if able to swallow.

If Inhale:
Have person at fresh air.

If Person is Breathing, Call 911 or an Ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment. You may also contact 900-730-2072 for emergency medical treatment information.

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

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 washing 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.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. NOTE: BUSAN 94 must be added separately to systems. Do not mix it with other additives; the high pH of many additive formulations will cause decomposition of BUSAN 94.

PULP AND PAPER MILLs: For slime control in pulp and paper mill systems, BUSAN 94 is employed at 75 to 250 g per tonne (0.15 to 0.5 ppm, or 10 to 35 parts per million, or ppm; or 0.15 to 0.5 ppm; or 0.015 to 0.055 g/l) for perlmuter control. Addition may be made continuously or intermittently as needed to control the growth of microorganisms. As a general rule, intermittent treatment at the specified rates for periods of 2 to 6 hours of each 24 or 48 hours cycle is recommended. The concentration and frequency of treatment are adjusted according to the rate of slime accumulation. The maximum concentration at which the product is used is 5 ppm. The maximum concentration of BUSAN 94 to the pulp or paper stock is 150 ppm. Before treatment with BUSAN 94 is begun, it is recommended that the system be thoroughly cleansed.

COOLING WATER SYSTEMS: BUSAN 94 is used to control the growth of algae, fungi, and bacteria in commercial and industrial reconditioning cooling water systems. If the system is badly fouled, it is recommended that before treatment with BUSAN 94 is begun, the system should be cleaned thoroughly, drained, flushed, and refilled with fresh water. BUSAN 94 should then be added to the water cooling tower system, continuously or intermittently, as required to maintain control. If "shock" cleaning 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 4.8-9.5 g/L BUSAN 94 per cubic meter water (0.048-0.095 g/L BUSAN 94 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 20-55 g/L BUSAN 94 per cubic meter water (0.200-0.550 g/L BUSAN 94 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 25-55 g/L BUSAN 94 per cubic meter water (0.250-0.550 g/L BUSAN 94 per 1000 gal water) in the system by means of a chemical-metering pump.

AERIAL WASHER SYSTEMS: BUSAN 94 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 BUSAN 94. If intermittent or slug dose treatment is employed, add an initial dose of 3-5 g/L BUSAN 94 per cubic meter water (0.030-0.050 g/L BUSAN 94 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 2.5-3.5 g/L BUSAN 94 per cubic meter water (0.025-0.035 g/L BUSAN 94 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 1.5-4.7 g/L BUSAN 94 per cubic meter water (0.015-0.047 g/L BUSAN 94 per 1000 gal water) in the system, by means of a chemical-metering pump.

REVERSE OSMOSIS SYSTEMS: BUSAN 94 may be used to control microbical fouling in reverse osmosis systems used in industrial applications. BUSAN 94 should be fed to the membrane feedwater at a rate of 20-80 ppm (0.75-3.04 l/liter) to the membrane. The product should be added continuously for a time period of 24 hours, 1-7 days each week depending on the severity of the problem. For off-line cleaning, BUSAN 94 should be added to provide a level of 100-400 ppm (3.75-13.5 l/liter) in the soak solution.

INDUSTRIAL PRESERVATIVE APPLICATIONS: BUSAN 94 may be used to reduce microbiological contamination in raw materials and/or products such as aqueous paints and coatings, polymers, adhesives, latex and resin emulsions, sizing, color, process water, along with specialty industrial products including inks, polishes, waxes, detergents, and cleaners. To reduce microbiological contamination, add BUSAN 94 to the material or product at a concentration of 35 to 2,000 ppm by weight. This concentration is equivalent to 2.8-224.0 fluid ounces BUSAN 94 per 1,000 gallons or 21.4-1,712.0 milliliters BUSAN 94 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 BUSAN 94 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 BUSAN 94 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 0.4-1.5 ppm BUSAN 94 by weight of water treated. Chlorination should result in a minimum detectable residual (i.e., greater than zero but less than the NPDSP residual level). Addition should be continuous and made at a point just after the initial chlorine mixing. Rapid mixing is necessary for maximum effectiveness. BUSAN 94 should be added at a location where a contact time of 10 minutes or longer will be provided before reaching the outfall.

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.

PESTICIDE DISPOSAL: Pesticide wastes are hazardous. Proper disposal of excess pesticide, spray mixture, or rinsates 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 DISPOSAL: Do not reuse empty container. Tripe rinse (or equivalent). Then after for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

*** Specimen Label ***

Manufactured by
Buckman Laboratories International, Inc.
900 Buckman Way
Memphis, Tennessee 38110
(901) 278-0350 or 1-800-292-5628

EPA Est. No. 37429-CA-2
EPA Reg. No. 1448-72
Product Weight 10.4 lbs/gal
1.25 kg/L
Hot contents are mailed in the container.

HMIS / NPGA Ratings
Health 3 Flammability 1 Reactivity 1

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