



ACCEPTED

BUSAN 77

COMPOSITION

APPLICATIONS

CAUTION

MANUFACTURED BY
BUCKMAN LABORATORIES, INC.
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PRODUCT DATA

BUSAN

A BROAD SPECTRUM MICROBICIDAL CONCENTRATE

In a broad spectrum microbicidal concentrate, BUSAN 77 is a highly effective broad spectrum microbicidal concentrate. It is effective against a wide range of microorganisms, including bacteria, fungi, and viruses. It is used for the control of microorganisms in a variety of applications, including the control of microorganisms in food processing, pharmaceuticals, and other industries.

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APPLICATIONS

Busan 77 is a concentrate that may be diluted to any desired concentration to prepare ready-to-use microbicides, and it also is suitable for use in large industrial operations without dilution. For microbicides prepared by dilution of Busan 77 with water, the amounts employed for different applications will, of course, depend upon the concentrations of active ingredients in the final product. Busan 77 and dilutions of this product can be fed into systems by means of chemical-metering pumps or can be dispensed in suitable measuring containers. In the following all references to the amounts used for different applications are based on concentrated Busan 77 containing 60 percent of active ingredients and the use of this product for microorganism control in systems which do not contain high concentrations of adsorbents such as wood pulp. Such adsorbents reduce the microorganism control effectiveness of Busan 77. However, the use of this product for the treatment of pulp and paper mill fresh water can make an important contribution to slime control. Its action on microorganisms entering the system in the fresh water controls the growth of slime and algae in fresh water pipes, on fresh water sprays, and on pulp and paper machine parts contacted by fresh water. There also is a reduction in the amount of slime growth in the system as a whole because of the reduction in microbiological contamination that may normally be introduced by the fresh water.

Cooling Water Systems

As a general rule, it is recommended that before treatment of a cooling water system with Busan 77 is begun, the system should be cleaned thoroughly to remove all old algal growths, microbiological slime, and other deposits. The system then should be drained, flushed, and refilled with fresh water and regular treatment with Busan 77 initiated.

To control the growth of algae and other microorganisms on cooling towers, heat exchangers, and other parts of recirculating cooling water systems, Busan 77 is used at concentrations of 2 to 20 parts per million. To treat recirculating systems, an initial addition of 8 to 20 parts per million, based on the total weight of water in the system, is recommended. Subsequent additions of 2 to 20 parts per million should be made with a frequency depending upon the relative amount of blowdown or bleedoff and the severity of the biological fouling problem. Busan 77 can also be added continuously to maintain a concentration of 2 to 20 parts per million in the system. The concentration required in the makeup water will be equal to the concentration to be maintained in the system divided by the cycles of concentration.

Industrial Fresh-Water Systems

Busan 77 can be used to inhibit the growth of algae, bacteria, and fungi in many types of industrial fresh-water systems. Prior to its use, the system should be thoroughly cleaned mechanically or with a hot cleaning solution or both. A cleaning solution suitable for most systems can be prepared by adding 7.5 kg. of caustic soda (sodium hydroxide) and 1 liter of Busperse® 47 to each cubic meter of water (60 lb. of caustic soda and 1 U.S. gallon of Busperse 47 to each 1000 U.S. gallons of water). After the system has been cleaned and flushed with fresh water, periodic or continuous additions of 0.5 to 5 parts per million should be made as required to maintain effective control of microorganisms.

Recommendations given in this bulletin are based on tests believed to be reliable. However, the use of the product is beyond the control of Buckman Laboratories, Inc., and no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from misuse of the product as such, or in combination with other materials. This bulletin is not to be taken as a license to operate under or recommendation to infringe any patent.

Printed in U.S.A.