

ACTIVE INGREDIENTS: Sodium Bromide 

## **KEEP OUT OF REACH OF CHILDREN** WARNING

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Irritation may develop from eye and skin exposure. Avoid contact with eyes. Wear gloves and safety goggles. Wash contaminated clothing before reuse.

FIRST AID: In case of eye contact, flush eyes with cold water for at least 15 minutes, if irritation persists, seek medical attention immediately. Prolonged skin contact can produce skin irritation. In case of skin contact, wash with cold water for 15 minutes.

ENVIRONMENTAL HAZARDS: Do not discharge effluent containing this product into lakes, streams. ponds, estuariers, 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 sewer treatment authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL & CHEMICAL HAZARDS: This product is not flammable. However, in fires fueled by other materials, hydrogen bromide or bromine may be released. In case of fire, wear self-contained breathing apparatus.

## STORAGE AND DISPOSAL

STORAGE: Keep product in tightly closed original container when not in use. Store in a dry, well ventilated area. Product should be stored at 0 degrees F or above.

DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste discosal facility. Triple rinse the container (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate. Burn only if allowed by state and local authorities. If burned, stay out of smoke.

## DIRECTIONS FOR USE

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

Recirculating Cooling Water Systems, Cooling Water Systems, Alr washers, Brewery Pasteurizers, and Retort Systems. Busan 6040 is used as a disinfectant, fungicide, algaecide, bactericide and slimicide in influent water systems, wastewater systems, recirculating cooling water systems, heat-exchangers, industrial water scrubbing systems, industrial process water, once-through cooling water systems, air washers, brewery pasteurizers, retort systems, and process water systems. It is applied in conjunction with an exidant such as sedium hypochlorite (12.5%) or chlorine gas (99.9%) to produce hypobromous acid, which is more effective for microorganism control at an elevated pH (greater than 8). Busan 6040 may be added to the system inlet water or metered into existing NaOCI piping to form a solution of sodium hypobromite. Consult your feeder manufacturer or Buckman representative for appropriate materials of construction, proper procedure and correct use of the feeder equipment for the application of Busan 6040.

WASTEWATER TREATMENT SYSTEMS: When used as directed, Busan 6040 effectively controls algae, bacteria and fungal stimes and disinfects secondary and tertiary wastewater systems and effluents. The quantity of Busan 6040 required varies with the degree of touling. Add sufficient Busan 6040 and chlorine or sodium hypochlorite to achieve residual bromine levels of 0.3 ppm to 1 ppm when measured approximately 5 minutes after treatment (0.5 to 2.0 sodium bromide/oxidant mole ratio). This addition can be made at various points in the system including a contact tank preceding the effluent discharge on a secondary system or at the influent of the final clarifier.

REFECTRCULATING COOLING WATER SYSTEMS: When used as directed, Busan 6040 effectively controls tungi, algae, bacteria and stime in commercial and industrial cooling towers, air washers, heat exchangers, industrial water scrubbing systems, industrial process water and influent water systems. The quantity of Busan 6040 required varies with the degree of fouling. Apply sufficient Busan 6040 and chlorine or sodium hypochlorite to achieve residual bromine levels 0.5 to 5 ppm when measured approximately 5 minutes after treatment. A 0.5 to 2 mole ration of sodium bromide to oxidant is recommended.

INDUSTRIAL ONCE-THROUGH COOLING WATER SYSTEMS: When used as directed, Busan 6040 effectively controls moliuses, bacteria, fungi, algae and slime in once-through and closed-cycle fresh and sea water cooling systems. Apply Busan 6040 and chlorine or sodium hypochlorite to the system inlet water or before any other contaminated area. Add sufficient Busan 6040 and chlorine or sodium hypochlorite to achieve a residual bromine level of 0.5 to 5.0 ppm or as needed to maintain control. A 0.5 to 2 mole ratio of sodium bromide to oxidant is recommended.

PULP AND PAPER MILLS: When used in combination with an oxidant, Busan 6040 effectively controls algae, bacteria and fungal slime in pulp and paper mill fresh and sea water influent water systems, cooling water systems, wastewater treatment systems, nonpotable water systems and other process water. Add sufficient Busan 6040 and chlorine or sodium hypochlorite to achieve a residual bromine level of 0.5 to 5.0 ppm or as needed to maintain control. A 0.5 to 2 mole ratio of sodium bromide to exidant is recommended. Busan 6040 can be added wherever chlorination is applied.

DOSAGE RATES: Initial Doses: When the system is noticeably fouried, apply sufficient Busan 6040 and chlorine or sodium hypochlorite to achieve a residual bromine level of 0.5 to 5 ppm or as needed to maintain control. A 0.5 to 2 mole ratio of sodium bromide to oxidant is recommended. Typically the recommended mole ratio may be achieved by using 1.5 to 6.0 lbs of chlorine gas (99.9%) or 1.3 to 5.2 gallons NaOCI (12.5%) for each gallon of Busan 6040. Subsequent Dose; When microbial control is evident, apply sufficient Busan 6040 and chlorine or sodium hypochlorite to achieve a residual bromine level of 0.5 to 2 pom or as needed to maintain control A 0.5 to 2 mole ratio of sodium bromide to oxidant is recommended. Typically, the recommended mole ratio may be achieved by using 1.5 to 6.0 lbs of chlorine gas (99,9%) or 1.3 to 5.2 gallons NaOCI (12.5%) for each gatton of Busan 6040. The product may be added to the system either continuously or intermittently, as needed. The frequency of feeding and ouration of the treatment will depend upon the seventy of the problem.

FRUIT AND VEGETABLE WASH: When used in conjunction with an oxidant (Chlorine gas or NaOCI), Busan 6040 can be used for the wash and transport of fruits and vegetables. Busan 6040 and oxidant should be added at a rate not to exceed a dosage of 55 ppm Busan 6040 (38,5 gallons Busan 6040 per one million gallons of water treated). Apply sufficient Busan 6040 and chlorine or sodium hypochlorite to achieve a residual bromine level of 0.5 to 5 ppm when measured approximately 5 minutes after treatment. The recommended activation mix of Busan 6040 and oxidant is a one to one molar ratio. Chlorine dose (99%). 3.3 pounds, 10% NaOCI dose (3.3 gallons) or 15% NaOCI dose (2.0 gallons) will activate one gallon of Busan 6040 (40% Sodium bromide solution), Busan 6040 may be continuously metered to Chlorinator eductor water or mixed with a NaOOI solution for activation. The use of this product under this application must be followed by a potable water rinse to remove, to the extent possible, residues of the chemical.

Decorative Waters that do not contain fish; Busan 6040 may be used to control microbiological growth in decorative fountains and ponds that do not contain figh: The quantity-of-Busan-6040 required.will vary with the degree of fouring. Busan ; 6040 should be applied with chlorine. could man application of the should be applied with chlorine level of 0.5 – 5ppm. The residual bromine level should be made a control required.

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Under The Faderal Insectación, Insectación end Rodembcide Act, as amended, ior the restructe registered under					
HMIS/NPCA RATING Product Weight: 11.9 lbs./gal. 1.4 NET CONTENTS MARKED ON CONT.					
Health 1 Flammab	ility 1 Reactivity 1		1 E	EPA Reg. No. 1448-345	
Manufactured By EPA Est. No. 1448-TN-1 BUCKMAN LABORATORIES, INC.					
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