

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUL 28 2004

Ms. Kristin M. Miller  
Buckman Laboratories  
1256 North McLean Blvd.  
Memphis, TN 38108-1241

Subject: Busan 1125C  
EPA Registration Number 1448-20001  
Application Date: 4/27/04  
Receipt Date: 5/4/04

Dear Ms. Miller:

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable with the conditions listed below:

- To place the product name above the active ingredients statement
- To place the "Storage & Disposal" statement after the "Directions for Use"

**Conditions**

Under the "Precautionary Statements" add the following paragraph:

DANGER: Corrosive, may cause severe skin and eye irritation or chemical burns to broken skin. Causes eye damage. Wear safety glasses or goggles and rubber gloves when handling this product. Wash after handling. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until strong odor have dissipated.

**General Comments**

A stamped copy of the accepted labeling is enclosed. Submit three (3) copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

CONCURRENCES

SYMBOL	75700						
SURNAME	E. Miller						
DATE	7-28-04						

Should you have any questions or comments concerning this letter, please contact Delores Williams at (703) 308-6372.

Sincerely,

Emily H. Mitchell  
Acting Product Manager 32  
Regulatory Management Branch II  
Antimicrobials Division (7510C)

# BUSAN 1125C

BUSAN is a registered trademark.

## ACTIVE INGREDIENT(S)

Sodium hypochlorite	12.5%
INERT INGREDIENTS	87.5%
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 further 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 the 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, then give artificial respiration, preferably by 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 901-278-0330 or 1-800-BUCKMAN for emergency medical treatment information.	
NOTE TO PHYSICIAN	
Probable mucosal damage may contraindicate the use of gastric lavage.	

## Precautionary Statements

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### PHYSICAL AND CHEMICAL HAZARDS

**STRONG OZIDING AGENT:** Mix only with water according to label directions. Mixing this product with chemicals (e.g. ammonia, acids, detergents, etc) or organic matter (e.g. urine, feces, etc) will release chlorine gas which is irritating to eyes, lungs and mucous membranes.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless this product is specifically identified and addressed in a National Pollutant Discharge Elimination Systems (NPDES) permit. 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.

ACCEPTED  
with COMMENTS  
EPA Letter Dated:

JUL 28 2004

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended for the pesticide,  
registered under EPA Reg. No.

1448-20001

## Use Directions

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

**NOTE:** This product degrades with age. Use a chlorine test kit and increase dosage as necessary to obtain the required level of chlorine.

### PULP AND PAPER MILL PROCESS WATER SYSTEM

**SLUG FEED METHOD - Initial Dose:** When system is noticeably fouled, apply 52 to 104 of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Repeat until control is achieved.

**Subsequent Dose:** When microbial control is evident, add 11 oz. of this product per 10,000 gallons of water in the system daily or as needed to maintain control and keep the chlorine residual at 1 ppm. Badly fouled systems must be cleaned before treatment is begun. **INTERMITTENT FEED METHOD - Initial Dose:** When the system is noticeably fouled, apply 52 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Apply half (1/3, 1/4, 1/5) of the initial dose when half (1/3, 1/4, 1/5) of the water has been lost by blowdown.

**Subsequent Dose:** When microbial control is evident, add 11 oz. of this product per 10,000 gallons of water in the system to obtain a 1 ppm residual. Apply half (1/3, 1/4, 1/5) of the initial dose when half (1/3, 1/4, 1/5) of the water has been lost by blowdown. Badly fouled systems must be cleaned before treatment is begun.

**CONTINUOUS FEED METHOD - Initial Dose:** When system is noticeably fouled, apply 52 to 104 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine.

**Subsequent Dose:** Maintain this treatment level by starting a continuous feed of 1 oz. of this product per 1000 gallons of water lost by blowdown to maintain 1 ppm residual. Badly fouled systems must be cleaned before treatment is begun.

**BRIQUETTES OR TABLETS - Initial Dose:** Initially slug dose the system with 52 oz. of this product per 10,000 gallons of water in the system. Badly fouled systems must be cleaned before treatment is begun.

**Subsequent Dose:** When microbial control is evident, add 11 oz. of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and maintain the chlorine residual at 1 ppm.

### COOLING TOWER/ EVAPORATIVE CONDENSOR WATER

**SLUG FEED METHOD - Initial Dose:** When system is noticeably fouled, apply 52 to 104 of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Repeat until control is achieved.

**Subsequent Dose:** When microbial control is evident, add 11 oz. of this product per 10,000 gallons of water in the system daily or as needed to maintain control and keep the chlorine residual at 1 ppm. Badly fouled systems must be cleaned before treatment is begun.

**INTERMITTENT FEED METHOD - Initial Dose:** When the system is noticeably fouled, apply 52 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Apply half (1/3, 1/4, 1/5) of the initial dose when half (1/3, 1/4, 1/5) of the water has been lost by blowdown.

**Subsequent Dose:** When microbial control is evident, add 11 oz. of this product per 10,000 gallons of water in the system to obtain a 1 ppm residual. Apply half (1/3, 1/4, 1/5) of the initial dose when half (1/3, 1/4, 1/5) of the water has been lost by blowdown. Badly fouled systems must be cleaned before treatment is begun.

**CONTINUOUS FEED METHOD - Initial Dose:** When system is noticeably fouled, apply 52 to 104 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine.

**Subsequent Dose:** Maintain this treatment level by starting a continuous feed of 1 oz. of this product per 1000 gallons of water lost by blowdown to maintain 1 ppm residual. Badly fouled systems must be cleaned before treatment is begun.

**BRIQUETTES OR TABLETS - Initial Dose:** Initially slug dose the system with 52 oz. of this product per 10,000 gallons of water in the system. Badly fouled systems must be cleaned before treatment is begun.

**Subsequent Dose:** When microbial control is evident, add 11 oz. of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and maintain the chlorine residual at 1 ppm.

**DISINFECTION OF DRINKING WATER (EMERGENCY/PUBLIC/INDIVIDUAL SYSTEMS) PUBLIC SYSTEMS:** Mix a ratio of 1 oz. of this product to 100 gallons of water. Begin feeding this solution with hypochlorinator until a free available chlorine residual of at least 0.2 ppm and no more than 0.6 ppm is attained throughout the distribution system. Check water frequently with a chlorine test kit. Bacteriological sampling must be conducted at a frequency no less than that prescribed by the National Interim Primary Drinking Water Regulations. Contact your local Health Department for further details.

**INDIVIDUAL SYSTEMS: DUG WELLS:** Upon completion of the casing (lining) wash the interior of the casing (lining) with 100 ppm available chlorine solution using a stiff brush. This solution can be made by thoroughly mixing 1 oz. of this product in to 10 gallons of water. After covering the well, pour the sanitizing solution into the well through both the pipesleeve opening and the pipeline. Wash the exterior of the pump cylinder also with the sanitizing solution. Start pump and pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours flush well until all traces of chlorine have been removed from water. Consult your local Health Department for further details.

**INDIVIDUAL SYSTEMS: DRILLED, DRIVEN & BORED WELLS:** Run pump until water is as free from turbidity as possible. Pour a 100 ppm available chlorine sanitizing solution into the well. This solution can be made by thoroughly mixing 1 oz. of this product into 10 gallons of water. Add 5 to 10 gallons of clear chlorinated water to the well in order to force the sanitizer into the rock formation. Wash the exterior of pump cylinder with the sanitizer. Stop pump and wait at least 24 hours. After 24 hours flush well until all traces of chlorine is have been removed from water. Deep wells with high water levels may necessitate the use of special methods for introduction of the sanitizer into the well. Consult your local health department for further details.

**INDIVIDUAL WATER SYSTEMS: FLOWING ARTESIAN WELLS:** Artesian wells generally do not require disinfection. If analyses indicate persistent contamination, the well should be disinfected. Consult your local health department for further details.

**EMERGENCY DISINFECTION:** When boiling water for 1 minute is not practical, water can be made potable by using this product. Prior to addition of sanitizer, remove all suspended material by filtration or by allowing it to settle to the bottom. Decant the clarified, contaminated water to a clean container and add 1 drop of this product to 20 gallons of water. Allow the treated water to stand for 30 minutes. Properly treated water should have a slight chlorine odor not, repeat dosage and allow the water to stand an additional 15 minutes. The treated water can then be made palatable by pouring between clean containers several times.

**PUBLIC WATER SYSTEMS RESERVOIRS-ALGAE CONTROL:** Hypochlorinate streams feeding the reservoir. Suitable feeding points should be selected each stream at least 50 yards upstream from the points of entry into the reservoir.

**MAINS:** - Thoroughly flush section to be sanitized by discharging from hydrants. Permit a water flow of at least 2.5 feet per minute to continue under pressure while injecting this product by means of a hypochlorinator. Stop water flow when a chlorine residual test of 50 ppm is obtained at the low pressure end of new main section after 24 hour retention time. When chlorination is completed, the system must be flushed free of all heavily chlorinated water.

**NEW TANKS, BASINS, ETC.:** - Remove all physical soil from surfaces. Place 20 oz. of this product for each cubic feet of working capacity (500 ppm available chlorine). Fill to capacity and allow to stand for at least 4 hours. Drain and flush with potable water and return to surface.

**NEW FILTER SAND:** - Apply 80 oz of this product for each 150 to 200 cubic feet of sand. The action of the product dissolving as the water passes through the bed will aid in sanitizing the new sand.

**NEW WELLS:** - Flush the casing with 50 ppm available chlorine solution of water containing 5 oz. of this product for each 100 gallons of water. The solution should be pumped by gravity into the well after thorough mixing with agitation. The well should stand for several hours or overnight under chlorination. It then be pumped until representative raw water sample is obtained. Bacterial examination of the water will indicate whether further treatment is necessary.

**EXISTING EQUIPMENT:** - Remove equipment from service, thoroughly clean surfaces of all physical soil. Sanitize by placing 21 oz. of this product for each 5 cubic feet capacity (approximately 500 ppm available chlorine). Fill to working capacity and let stand at least 4 hours. Drain and place in service. If previous treatment is not practical, surfaces may be sprayed with a solution containing 5 oz. of this product for each 5 gallons of water (approximately 11 ppm available chlorine). After drying, flush with water and return to service.