

AUG 29 1996

Buckman Laboratories, Inc.  
1256 North McLean Blvd.  
P.O. Box 80305  
Memphis, TN 38108-0305

Attn: Dennis Barbee, Manager  
Regulatory Affairs

Subject: BUSAN 1072  
EPA Registration No. 1448-101  
Letter Dated April 17, 1996

The Agency is in receipt of your submitted final printed label based on the previously accepted draft label dated March 13, 1996. The label has been placed in your product file and not reviewed in accordance with the PR Notice 82-2.

If you have any questions concerning this letter, please contact Martha Terry at (703) 305-6982.

Sincerely,



Marion J. Johnson, Jr.  
Product Manager (31)  
Antimicrobial Program Branch  
Registration Division (7505C)

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

# BUSAN 1072

BUSAN is a registered trademark.

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER:** Corrosive, causes irreversible eye damage and skin burns. May be fatal if swallowed or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or spray mist. Wear goggles or face shield, a mask or pesticide respirator jointly approved by MSHA and OSHA, protective clothing and shoes, and rubber gloves. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### STATEMENT OF PRACTICAL TREATMENT (FIRST AID):

**If in eyes:** Hold eyelids open and flush with a steady gentle stream of water for 15 minutes. Get medical attention.

**If on skin:** Wash with plenty of soap and water. Get medical attention.

**If swallowed:** Call a physician or poison control center. Do not induce vomiting. First rinse mouth with large amounts of water or milk. Then slowly give one or two glasses of water or milk. Avoid alcohol. Do not give anything by mouth to an unconscious person. Take individual to the nearest medical facility. **If inhaled:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

**Note to physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to fish. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. 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.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**STORAGE:** Do not expose to extreme temperatures. Do not stack more than five drums high. Drums should be opened in well-ventilated areas. Leaking or damaged drums should be placed in overpack drums for disposal. Spills should be absorbed in sawdust or sand and disposed of in a sanitary landfill. Keep container closed when not in use.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate 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 your EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, by incineration, or, if allowed by state and local authorities, by burning. 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.

**SAPSTAIN AND MOLD CONTROL:** Busan 1072 is used to control sapstain and mold on freshly cut hardwood and softwood lumber, logs, poles, posts and timbers. It is applied by dipping or spraying the wood until complete surface wetting is accomplished. Use 0.75 to 6 kg of Busan 1072/100L water (< 48 lbs of Busan 1072/100 gal water) and agitate vigorously until Busan 1072 is thoroughly dispersed. Rates to be used will vary according to temperature, humidity, wood moisture, storage

4-18-96

NOT REVIEWED

3-13-76

### ACTIVE INGREDIENTS:

2-(Thiocyanomethylthio)benzothiazole ..... 5.0 %  
Methylene bis(thiocyanate) ..... 5.0 %

(Contains Petroleum Distillates)

**INERT INGREDIENTS:** ..... 90.0 %

conditions, etc. Under conditions suitable for aggressive mold growth, the high rate mentioned above should be used. Treatment should be made as quickly as possible after lumber is cut and always within 24 hours after cutting. **PAPER MILLS:** To control bacterial and fungal growth on paper and paperboard machines, Busan 1072 is added to the white water or stock at 0.2 to 1.0 lb/ton of dry paper or paperboard produced.

**COOLING TOWERS:** Busan 1072 is used to protect cooling tower wood against soft or surface rot and internal or dry rot. It is applied by spraying or painting a dispersion containing 1.0 to 1.4% Busan 1072 in water onto the clean wood surfaces. The amount applied should provide 1.2 to 1.6 lb Busan 1072 per 1000 sq ft of wood surface. Soft or surface rot can also be inhibited by periodic shock doses of Busan 1072 to the recirculating cooling water at the tower basin or cold well. The dosage should provide 2.5 lb of Busan 1072 per 1000 gal of water and the bleedoff should be stopped for 4 to 6 hr after treatment. The shock treatment should be repeated every four months. **COOLING WATER:** Busan 1072 is used to control algae, bacteria, and fungi in industrial recirculating cooling water systems. Before treatment is begun, the system should be cleaned thoroughly to remove old algal growth, microbiological slimes, and other deposits. The system should then be drained, flushed, refilled with water, and treated with an initial dose of 1.2 to 7.4 fl oz Busan 1072 per 1000 gal water in the system. Subsequent additions of 0.4 to 2.4 fl oz per 1000 gal should be made every 1 to 5 days, depending on amount of bleedoff and severity of microbiological fouling. **DRILLING FLUIDS:** To inhibit bacterial and fungal degradation of the fluids or muds used in the drilling of wells, Busan 1072 is incorporated in the drilling fluid at concentrations of 0.1 to 0.5% based on the total wet weight of the fluid.

**PETROLEUM SECONDARY RECOVERY:** Busan 1072 is used to control sulfate-reducing bacteria, slime-forming bacteria and fungi in oil-field water, polymer, or micellar floods, water-disposal systems, and other oil-field water systems at dosage rates of 7.8 to 26.0 fl oz of Busan 1072 per 1000 of water treated. Additions should be made continuously or intermittently by means of a metering pump at the free water knockouts, before or after injection pumps and injection well headers. **Continuous Feed Method:** When system is noticeably fouled, add 7.8 to 26.0 fl oz Busan 1072 per 1000 gal of water continuously, until desired degree of control is achieved. Then treat with 7.8 to 26.0 fl oz Busan 1072 per 1000 gal of water continuously, or as needed to maintain control. **Intermittent or Slug Method:** When system is noticeably fouled, or to maintain control, add 7.8 to 26.0 fl oz of Busan 1072 per 1000 gal of water for 4 to 8 hr per day and 1 to 4 times per week, or as needed to maintain control. **CRUDE AND REFINED OILS:** Busan 1072 is an oil-soluble preservative for the control of bacteria and fungi that cause the degradation of crude oil and refined fuel oils during storage. Crude and refined fuel oils include, but are not limited to, olefinic, aromatic, paraffinic, and naphthenic oils. It should be added to the oil as it is being transferred from the shipping container to the storage tank at the rate of 1.2 to 12.0 fl oz Busan 1072 per 1000 gal of oil. Addition should be made batchwise where mixing occurs or continuously to the suction side of the transfer pump. **HIDES AND SKINS:** Busan 1072 is used to prevent bacterial decomposition of brine-cured hides and skins. Busan 1072 should be used at a level of 0.6 to 4.0 lb/1000 lb of green fleshed hides or skins. In raceway operations Busan 1072 can be added directly to the raceway during addition of hides and operation of paddles. In processor operations Busan 1072 should be added as a dispersion in water. A satisfactory dispersion of one part Busan 1072 plus four parts water can be prepared by adding the Busan 1072 to the water (as opposed to adding water to Busan 1072) with agitation. **LEATHER:** To prevent mold growth on chrome- or vegetable-tanned hides and skins during tanning or post-tanning operations prior to finishing, Busan 1072 is used at treatment rates of 1.0 to 5.0 lb/1000 lb of white weight stock. A dispersion as described above should be prepared and added to the pickling solution or the tanning liquor during the tanning operation or to the rinse water in post-tanning reflow.

**COATINGS:** Busan 1072 is used to protect coatings against discoloration and deterioration by fungi. Busan 1072 is added at 1.0 to 18.0% based on the total weight of the coatings. For solvent-based coatings the Busan 1072 can be dissolved in aromatic solvents or combinations of aromatic and aliphatic solvents and added to the let down or added directly to the finished paints. For water-thinned latex emulsion coatings, Busan 1072 can be premixed with the wetting agent and added to the pigment slurry or simply added to the let down or finished paint. Rates to be used will vary according to temperature, humidity, substrate condition, etc. Under conditions suitable for aggressive fungal growth, the high rate mentioned above should be used. **REVERSE OSMOSIS SYSTEMS:** Busan 1072 may be used to control microbiological fouling in reverse osmosis systems used for process, wastewater, and other non-potable applications. Busan 1072 should be fed to the membrane feedwater at a rate of 0.5-10 ppm (0.06-1.3 fl oz/1000 gal). The product should be added continuously for a time period of 1-3 hours, 3-7 days each week depending on the severity of the problem. For off line cleaning, Busan 1072 should be added to provide a level of 10-100 ppm (1.3-13 fl oz/1000 gal) in the soak solution.

### HMIS/NPCA RATING

Health 3 Flammability 2 Reactivity 1

Product Weight: 8.3 lbs./gal. .99 kg/l  
NET CONTENTS MARKED ON CONTAINER

EPA Reg. No. 1448-101

Manufactured By EPA Est. No. 1448-TN-1, 1448-MO-1

**BUCKMAN LABORATORIES, INC.**

1256 N. McLEAN BLVD., MEMPHIS, TN 38108 USA

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Rev. 3/13/96