

1448-440

1/30/2009

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**U.S. ENVIRONMENTAL PROTECTION AGENCY**  
 Office of Pesticide Programs  
 Antimicrobials Division (7510C)  
 1200 Pennsylvania Avenue NW  
 Washington, D.C. 20460

EPA Reg. Number: 1448-440	Date of Issuance: JAN 30 2009
Term of Issuance: Unconditional	
Name of Pesticide Product: Busan 1216	

**NOTICE OF PESTICIDE:**  
 Registration  
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):  
**Buckman Laboratories, Inc.**  
 1256 North McLean Blvd.  
 Memphis, TN 38108

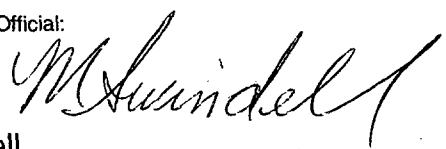
*Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.*

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA section 4.
2. Make the labeling changes listed below before you release the product for shipment:
  - a. Add the phrase "EPA Registration Number 1448-440".

Signature of Approving Official:  
  
 Marshall Swindell  
 Product Manager-33  
 Regulatory Management Branch I  
 Antimicrobials Division (7510P)

Date:  
 JAN 30 2009

3. Revise the "Precautionary Statements to read as follows:

"Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled or absorbed through the skin. Harmful if swallowed. Do not get in eyes, on clothing. Do not breathe vapor or spray mist. Wear goggles, face shield or safety glasses. Wash thoroughly with soap and water."

4. Make the following labeling revisions to the precautionary statements to read as follows:

- 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.
- IF ON SKIN:** 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 a poison control center or doctor immediately for treatment advice.  
Have a person sip a glass of water if able to swallow  
Do not induce vomiting unless told by a poison control center or doctor.  
Do not give anything 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 mouth-to mouth if possible.  
Call a poison control center or doctor for further treatment advice.

Note to Physician: "Probable mucosal damage may contraindicate the use of gastric lavage."

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

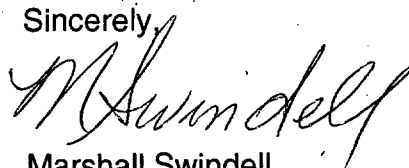
The Confidential Statement of Formula dated December 18<sup>th</sup>, 2008, is acceptable.

4. Submit three (3) copies of the final printed label prior to releasing this product for sale.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely,



Marshall Swindell  
Product Manager 33  
Regulatory Branch I  
Antimicrobials Division (7510P)

Enclosure: (Stamped Labeling)



# BUSAN 1216

BUSAN is a registered trademark.

### ACTIVE INGREDIENT(S)

2-(Thiocyanomethylthio)benzothiazole.....

30.0%

INERT INGREDIENTS.....

70.0%

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 Ingested	- 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

**DANGER:** Causes irreversible eye damage. Causes skin irritation. This product may cause allergic skin reactions. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

**ENVIRONMENTAL HAZARDS:** This pesticide is toxic to fish and aquatic organisms. Do not use in offshore or estuarine drilling operations. 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, 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.

**PHYSICAL AND CHEMICAL HAZARDS:** Do not use or store near heat or open flame.

ACCEPTED  
REMARKS

EPA Letter Dated:

JAN 30 2009

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended for the pesticide,  
registered under EPA Reg. No. 1448-44D

### Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with the Technical assistance in applying BUSAN 1216 for microorganism control as described in this label. Problem is provided.

**LEATHER:** BUSAN 1216 is recommended for the prevention of mold, bacteria and fungi on leather. It is used on the white lime stock weight basis to prevent microbial growth on processed hides and the length of protection required. A satisfactory dilution of 1 part BUSAN 1216 plus 100 parts water (as opposed to adding water to BUSAN 1216) with agitation. The diluted product can then be used in the tanning process or to the rinse water in a post tanning refloat. The product can also be used on finished leather at a concentration of 0.025-0.2% (250-2,000 ppm) based on the split and shaved weight of leather being processed above in the processing of U.S. military specification shoe upper leathers. For preservation added at a dosage rate of 0.1 - 0.25% (1000-2500 ppm) based on the weight of the leather dispersion.

**PULP MILLS:** To protect wood chips from fungal degradation during storage, BUSAN 1216 is used through a water shower located in the pneumatic conveyor carrying chips from the chip mill. BUSAN 1216 is used at 0.5 to 4 lb/ton of oven-dry fiber. It is applied by addition to the water of applicator rolls.

**PAPER MILLS:** To control bacterial and fungal growth on paper and paperboard machine stock, pigment slurries, coating formulations, and starch slurries and solutions) BUSAN 1216 is used at 0.5 to 5.0% (weight/weight). To make mold-resistant paper or paperboard, BUSAN 1216 is used on coated paper or board. BUSAN 1216 is incorporated in the coating mix prior to application dispersed in water, surface-sizing solution, or other solvent and applied to the surface to be protected. For the preservation of agricultural mulch paper, BUSAN 1216 is used at 1.0% on paper by tub-sizing methods or by means of applicator rolls before the paper is coated.

**PARTICLE BOARD:** BUSAN 1216 is employed as a preservative for particle board, insulation, and other wood products. In this use, BUSAN 1216 is mixed with the resin or binding agent at 0.1 to 1% based on the dry weight of the wood.

**SAPSTAIN CONTROL:** BUSAN 1216 is used to control sap stain and mold on freshly cut wood. It is applied by dipping or pressure impregnation of the wood with a dispersion containing 0.5 to 1.0% BUSAN 1216 in water. The wood should be treated within 24 hr of cutting or sawing, particularly in warm weather, and treated wood should be stored in a dry, well-ventilated area.

**COOLING TOWERS:** BUSAN 1216 is used to protect cooling tower wood against soft rot. It is applied to the wood surface at a concentration of 0.5 to 0.7% BUSAN 1216 in water onto the clean wood surfaces. Soft rot can also be inhibited by periodic shock drenching of the wood surface. The dosage should provide 1.25 lb of BUSAN 1216 per 1000 gal of water. The shock treatment should be repeated every four months.

**COOLING WATER:** BUSAN 1216 is used to control algae, bacteria, and fungi in industrial cooling water systems. The system should be cleaned thoroughly to remove old algal growth, microbiological slime, and debris. The system is then filled with water, and treated with an initial dose of 0.6 to 3.7 fl oz BUSAN 1216 per 1000 gal should be made every 1 to 5 days, depending on amount of bleedoff and season.

**COATINGS, CAULKING-SEALANTS & WALLCOVER ADHESIVES:** BUSAN 1216 is used in these compounds. BUSAN 1216 will inhibit the growth of fungi and bacteria. BUSAN 1216 is added at 0.5 to 5.0% based on the total weight of the solvent-based formulations, BUSAN 1216 can be dissolved in aromatic solvents or mixed with water and added directly to the finished products. For water-thinned latex emulsion formulations the pigment slurry or simply added to the let down or finished product.

**DRILLING FLUIDS:** To inhibit bacterial and fungal degradation of the fluids or muds used in drilling operations, BUSAN 1216 is added to the fluid at concentrations of 0.05 to 0.25% based on the total wet weight of the fluid.

**PETROLEUM SECONDARY RECOVERY:** BUSAN 1216 is used to control sulfate-reducing bacteria, or micellar floods, water-disposal systems, and other oil-field water systems at the wellhead. Additions should be made continuously or intermittently by means of a metering injection well headers. Continuous Feed Method: When system is noticeably fouled, add desired degree of control is achieved. Then treat with 0.2 to 1.2 fl oz BUSAN 1216 per 1000 gal of water. Intermittent or Slug Method: When system is noticeably fouled, or to maintain control, add BUSAN 1216 at day and 1 to 4 times per week, or as needed to maintain control.

**CUTTING FLUIDS:** BUSAN 1216 is used to inhibit bacterial and fungal degradation of cutting fluids used in metalworking operations. It should be added to the diluted cutting fluid (weight/weight) after final dilution with water. To prevent fungal growth on the metal surfaces, concentrations of BUSAN 1216 are needed. For this application, it is recommended to provide a concentration of 1000 to 1250 parts per million.

**TEXTILES:** BUSAN 1216 is an emulsifiable microbicide concentrate used to inhibit the growth of fungi and bacteria on textiles. It should be added to the emulsion of convenient concentration of 1 - 5% and then should be impregnated into the fabric to the degree of preservation required, treatment levels may vary between 0.5 - 2.0 % based on the weight of the fabric.

**WASTE WATER TREATMENT SYSTEMS:** When used as directed, BUSAN 1216 will control the growth of fungi and bacteria in waste water. The quantity of BUSAN 1216 required varies with the degree of fouling. It should be added to the waste water at a concentration of 0.5 to 5.0% (weight/weight) of the waste water. This addition can be made at various points in the system. Not registered for this use in California.

Directions for Use

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

Technical assistance in applying BUSAN 1216 for microorganism control as described in the following is available upon request when a description of the problem is provided.

30.0%
70.0%
100.0%

OF CHILDREN



with water for 15-20 minutes.
first 5 minutes, then continue rinsing eye.
her treatment advice.

for 15-20 minutes.
treatment advice.
ately for treatment advice.
swallow.

by the poison control center or doctor.
scious person.

ambulance, then give artificial respiration,

ther treatment advice.

BER

ou when calling a Poison Control
J may also contact 901-278-0330
treatment information.

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ie the use of gastric lavage.

Statements

DOMESTIC ANIMALS

in irritation. This product may cause allergic
s, on skin, or on clothing. Wear goggles or
roughly with soap and water after handling.

o fish and aquatic organisms. Do not use in
l uses, do not apply directly to water, or to
as below the mean high water mark. Do not
eams, ponds, oceans or other waters unless
tant Discharge Elimination System (NPDES)
writing prior to discharge. Do not discharge
hout previously notifying the local sewage
State Water Board or Regional Office of the

store near heat or open flame.

LEATHER: BUSAN 1216 is recommended for the prevention of mold, bacteria and fungi in the storage, transport and processing of wet leather stock such as pickled, vegetable-, chrome-, alternative metal or metal free tanned hides and skins. Dosage rates of 0.025-0.2% (250-2,000 ppm) of BUSAN 1216 can be used on the white lime stock weight basis to prevent microbial growth on processed hides and skins. The dosage level used will depend on storage conditions and the length of protection required. A satisfactory dilution of 1 part BUSAN 1216 plus 5 parts water can be prepared by adding the BUSAN 1216 to water (as opposed to adding water to BUSAN 1216) with agitation. The diluted product can then be added to the pickling liquor, or to the tanning liquor at the start of the tanning process or to the rinse water in a post tanning refloat. The product can also be applied during the fatliquoring process to prevent fungal growth at 0.025-0.2% (250-2,000 ppm) based on the split and shaved weight of leather being processed. BUSAN 1216 can be used at the dosage rates suggested above in the processing of U.S. military specification shoe upper leathers. For preservation of leather finishing pastes and fatliquors, BUSAN 1216 can be added at a dosage rate of 0.1 - 0.25% (1000-2500 ppm) based on the weight of the treated paste or fatliquor and mixed thoroughly to insure adequate dispersion.

PULP MILLS: To protect wood chips from fungal degradation during storage, BUSAN 1216 is used at 0.5 to 2 lb/ton of oven-dry wood. It can be applied through a water shower located in the pneumatic conveyor carrying chips from the chipper to the storage pile. For preservation of wet lap or sheet pulp, BUSAN 1216 is used at 0.5 to 4 lb/ton of oven-dry fiber. It is applied by addition to the white water or stock, or to the surfaces of the dewatered pulp by means of applicator rolls.

PAPER MILLS: To control bacterial and fungal growth on paper and paperboard machines, BUSAN 1216 is added to the white water or stock at 0.1 to 0.5 lb/ton of dry paper or paperboard produced. To inhibit the growth of bacteria and fungi in papermaking additives (including alum solutions, animal glue solutions, pigment slurries, coating formulations, and starch slurries and solutions) BUSAN 1216 is added to these materials in concentrations of 50 - 400 ppm (weight/weight). To make mold-resistant paper or paperboard, BUSAN 1216 is used at 0.05 to 0.1 lb/1000 sq ft (0.15 to 0.3 lb/3000 sq ft) of surface. For coated paper or board, BUSAN 1216 is incorporated in the coating mix prior to application of the coating. For uncoated paper or board, BUSAN 1216 is dispersed in water, surface-sizing solution, or other solvent and applied to the surface to be protected by means of an applicator roll, size press, coater, or wetstack. For the preservation of agricultural mulch paper, BUSAN 1216 is used at 1.5 to 5 lb/ton air-dry paper. It is applied to the surfaces of the mulch paper by tub-sizing methods or by means of applicator rolls before the paper is coated.

PARTICLE BOARD: BUSAN 1216 is employed as a preservative for particle board, insulation board, and other wood-base fiber and particle panel materials. In this use, BUSAN 1216 is mixed with the resin or binding agent at 0.1 to 1% based on the dry weight of the wood.

SAPSTAIN CONTROL: BUSAN 1216 is used to control sap stain and mold on freshly cut softwood and hardwood lumber, logs, poles, posts, and timbers. It is applied by dipping or pressure impregnation of the wood with a dispersion containing 0.5 to 8 gal of BUSAN 1216 per 100 gal of water. Treatment should be made within 24 hr of cutting or sawing, particularly in warm weather, and treated wood should not be exposed to heavy rains soon after treatment.

COOLING TOWERS: BUSAN 1216 is used to protect cooling tower wood against soft or surface rot and internal or dry rot. It is applied by painting a dispersion containing 0.5 to 0.7% BUSAN 1216 in water onto the clean wood surfaces. The amount applied should provide 0.6 to 0.8 lb BUSAN 1216 per 1000 sq ft of wood surface. Soft or surface rot can also be inhibited by periodic shock doses of BUSAN 1216 to the recirculating cooling water at the tower basin or cold well. The dosage should provide 1.25 lb of BUSAN 1216 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 1216 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 slime, and other deposits. The system should then be drained, flushed, refilled with water, and treated with an initial dose of 0.6 to 3.7 fl oz BUSAN 1216 per 1000 gal water in the system. Subsequent additions of 0.2 to 1.2 fl oz per 1000 gal should be made every 1 to 5 days, depending on amount of bleedoff and severity of microbiological fouling.

COATINGS, CAULKING-SEALANTS & WALLCOVER ADHESIVES: BUSAN 1216 is added with sufficient mixing ensuring dispersion at levels of 0.5 to 5.0% based on the total formulation weight. BUSAN 1216 will inhibit the growth of fungi (mold, "mildew") that often cause discoloration and degradation of these compounds. BUSAN 1216 is added at 0.5 to 5.0% based on the total weight of the formulation to prevent fungal discoloration and deterioration. For solvent-based formulations, BUSAN 1216 can be dissolved in aromatic solvents or combinations of aromatic and aliphatic solvents and added in the let down or added directly to the finished products. For water-thinned latex emulsion formulations, BUSAN 1216 can be premixed with the wetting agent and added to the pigment slurry or simply added to the let down or finished product.

DRILLING FLUIDS: To inhibit bacterial and fungal degradation of the fluids or muds used in the drilling of wells, BUSAN 1216 is incorporated in the drilling fluid at concentrations of 0.05 to 0.25% based on the total wet weight of the fluid.

PETROLEUM SECONDARY RECOVERY: BUSAN 1216 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 0.2 to 3.7 fl oz of BUSAN 1216 per 1000 gal 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 0.6 to 3.7 fl oz BUSAN 1216 per 1000 gal of water continuously until desired degree of control is achieved. Then treat with 0.2 to 1.2 fl oz BUSAN 1216 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 0.6 to 3.7 fl oz BUSAN 1216 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.

CUTTING FLUIDS: BUSAN 1216 is used to inhibit bacterial and fungal degradation of water-based and water-soluble or emulsifiable cutting fluids and coolants used in metalworking operations. It should be added to the diluted cutting fluid at a rate that will provide 150 to 250 parts per million BUSAN 1216 (weight/weight) after final dilution with water. To prevent fungal growth on the inside walls of the diluted metalworking fluid storage tanks, higher concentrations of BUSAN 1216 are needed. For this application, it is recommended that BUSAN 1216 be added to the diluted fluid as it is prepared to provide a concentration of 1000 to 1250 parts per million.

TEXTILES: BUSAN 1216 is an emulsifiable microbicide concentrate used to inhibit the growth of fungi that cause textile rotting. Apply BUSAN 1216 to an emulsion of convenient concentration of 1 - 5% and then should be impregnated into the fabric using conventional padding or sizing equipment. Depending on the degree of preservation required, treatment levels may vary between 0.5 - 2.0 % based on fabric weight.

WASTE WATER TREATMENT SYSTEMS: When used as directed, BUSAN 1216 controls bacteria and fungal slime in waste water systems and effluents. The quantity of BUSAN 1216 required varies with the degree of fouling. It should be added at a rate that will provide 10 to 30 parts per million BUSAN 1216 (weight/weight) of the waste water. This addition can be made at various points in the system including the influent to the clarifier and or the holding basins or ponds. Not registered for this use in California.

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## Directions for Use

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BUSAN 1216 is recommended for the prevention of mold, bacteria and fungi in the storage, transport and processing of wet leather stock such as chrome-, alternative metal or metal free tanned hides and skins. Dosage rates of 0.025-0.2% (250-2,000 ppm) of BUSAN 1216 can be used to prevent microbial growth on processed hides and skins. The dosage level used will depend on storage conditions and ventilation required. A satisfactory dilution of 1 part BUSAN 1216 plus 5 parts water can be prepared by adding the BUSAN 1216 to water and agitating. The diluted product can then be added to the pickling liquor, or to the tanning liquor at the start of the process or to the rinse water in a post tanning refloat. The product can also be applied during the fatliquoring process to prevent fungal growth at 0.00 ppm based on the split and shaved weight of leather being processed. BUSAN 1216 can be used at the dosage rates suggested for the preservation of U.S. military specification shoe upper leathers. For preservation of leather finishing pastes and fatliquors, BUSAN 1216 can be used at a rate of 0.1 - 0.25% (1000-2500 ppm) based on the weight of the treated paste or fatliquor and mixed thoroughly to insure adequate

BUSAN 1216 is used to protect wood chips from fungal degradation during storage. BUSAN 1216 is used at 0.5 to 2 lb/ton of oven-dry wood. It can be applied to the conveyor located in the pneumatic conveyor carrying chips from the chipper to the storage pile. For preservation of wet lap or sheet pulp, BUSAN 1216 is used at 0.5 to 4 lb/ton of oven-dry fiber. It is applied by addition to the white water or stock, or to the surfaces of the dewatered pulp by means of applicator rolls before the paper is coated.

BUSAN 1216 is used to control bacterial and fungal growth on paper and paperboard machines. BUSAN 1216 is added to the white water or stock at 0.1 to 0.5 lb/ton of paper or paperboard produced. To inhibit the growth of bacteria and fungi in papermaking additives (including alum solutions, animal glue slurries, coating formulations, and starch slurries and solutions) BUSAN 1216 is added to these materials in concentrations of 50 - 400 ppm. To make mold-resistant paper or paperboard, BUSAN 1216 is used at 0.05 to 0.1 lb/1000 sq ft (0.15 to 0.3 lb/3000 sq ft) of surface. For paperboard, BUSAN 1216 is incorporated in the coating mix prior to application of the coating. For uncoated paper or board, BUSAN 1216 is used as a surface-sizing solution, or other solvent and applied to the surface to be protected by means of an applicator roll, size press, coater, or preservation of agricultural mulch paper, BUSAN 1216 is used at 1.5 to 5 lb/ton air-dry paper. It is applied to the surfaces of the mulch by means of applicator rolls before the paper is coated.

BUSAN 1216 is employed as a preservative for particle board, insulation board, and other wood-base fiber and particle panel materials. BUSAN 1216 is mixed with the resin or binding agent at 0.1 to 1% based on the dry weight of the wood.

BUSAN 1216 is used to control sap stain and mold on freshly cut softwood and hardwood lumber, logs, poles, posts, and timbers. It is used by pressure impregnation of the wood with a dispersion containing 0.5 to 8 gal of BUSAN 1216 per 100 gal of water. Treatment should be done after cutting or sawing, particularly in warm weather, and treated wood should not be exposed to heavy rains soon after treatment.

BUSAN 1216 is used to protect cooling tower wood against soft or surface rot and internal or dry rot. It is applied by painting a 0.5 to 0.7% BUSAN 1216 in water onto the clean wood surfaces. The amount applied should provide 0.6 to 0.8 lb BUSAN 1216 per 100 sq ft of surface. Soft or surface rot can also be inhibited by periodic shock doses of BUSAN 1216 to the recirculating cooling water at the tower. The dosage should provide 1.25 lb of BUSAN 1216 per 1000 gal of water and the bleedoff should be stopped for 4 to 6 hr after treatment. The dosage should be repeated every four months.

BUSAN 1216 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 slime, and other deposits. The system should then be drained, flushed, and treated with an initial dose of 0.6 to 3.7 fl oz BUSAN 1216 per 1000 gal water in the system. Subsequent additions of 0.2 to 1.2 fl oz should be made every 1 to 5 days, depending on amount of bleedoff and severity of microbiological fouling.

**KING-SEALANTS & WALLCOVER ADHESIVES:** BUSAN 1216 is added with sufficient mixing ensuring dispersion at levels of 0.5 to 1.0% based on total formulation weight. BUSAN 1216 will inhibit the growth of fungi (mold, "mildew") that often cause discoloration and degradation of wallcoverings. BUSAN 1216 is added at 0.5 to 5.0% based on the total weight of the formulation to prevent fungal discoloration and deterioration. For wallcoverings, BUSAN 1216 can be dissolved in aromatic solvents or combinations of aromatic and aliphatic solvents and added in the let down of the finished products. For water-thinned latex emulsion formulations, BUSAN 1216 can be premixed with the wetting agent and added to the let down or simply added to the let down or finished product.

To inhibit bacterial and fungal degradation of the fluids or muds used in the drilling of wells, BUSAN 1216 is incorporated in the drilling fluids at a rate of 0.05 to 0.25% based on the total wet weight of the fluid.

**SECONDARY RECOVERY:** BUSAN 1216 is used to control sulfate-reducing bacteria, slime-forming bacteria and fungi in oil-field water, produced water, water-disposal systems, and other oil-field water systems at dosage rates of 0.2 to 3.7 fl oz of BUSAN 1216 per 1000 gal of water. Continuous Feed Method: When system is noticeably fouled, add 0.6 to 3.7 fl oz BUSAN 1216 per 1000 gal of water continuously until control is achieved. Then treat with 0.2 to 1.2 fl oz BUSAN 1216 per 1000 gal of water continuously, or as needed to maintain control. Batch Method: When system is noticeably fouled, or to maintain control, add 0.6 to 3.7 fl oz BUSAN 1216 per 1000 gal of water for 4 to 8 hr per week, or as needed to maintain control.

BUSAN 1216 is used to inhibit bacterial and fungal degradation of water-based and water-soluble or emulsifiable cutting fluids and metalworking operations. It should be added to the diluted cutting fluid at a rate that will provide 150 to 250 parts per million BUSAN 1216 after final dilution with water. To prevent fungal growth on the inside walls of the diluted metalworking fluid storage tanks, higher concentrations of BUSAN 1216 are needed. For this application, it is recommended that BUSAN 1216 be added to the diluted fluid as it is prepared to provide a concentration of 1000 to 1250 parts per million.

BUSAN 1216 is an emulsifiable microbicide concentrate used to inhibit the growth of fungi that cause textile rotting. Apply BUSAN 1216 to an emulsion concentration of 1 - 5% and then should be impregnated into the fabric using conventional padding or sizing equipment. Depending on ventilation required, treatment levels may vary between 0.5 - 2.0 % based on fabric weight.

**TREATMENT SYSTEMS:** When used as directed, BUSAN 1216 controls bacteria and fungal slime in waste water systems and effluents. The dosage of BUSAN 1216 required varies with the degree of fouling. It should be added at a rate that will provide 10 to 30 parts per million BUSAN 1216 in the waste water. This addition can be made at various points in the system including the influent to the clarifier and/or the holding basins or tanks. BUSAN 1216 is not registered for this use in California.

## Storage and Disposal

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

**PESTICIDE STORAGE:** Do not expose to extreme temperatures. If applicable, do not stack more than four drums high. Containers 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, or by other procedures approved by state and local authorities.

Manufactured by

**Buckman Laboratories, Inc.**

1256 North McLean Blvd.  
Memphis, Tennessee 38108, USA

(901) 278-0330 or 1-800-BUCKMAN

EPA Est. No. 1448-TN-1

EPA Reg. No. 1448-XXX

Product Weight 8.63 lbs/gal 1.04 kg/l

Net contents are marked on the container.

## HMIS / NPCA Ratings

Health 3 Flammability 1 Reactivity 1

Last Revision 9/11/2008