

1448-81

3/02/2010

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D C 20460



Office of Pesticide Programs

Buckman Laboratories, Inc  
256 N McLean Blvd  
Memphis TN 38108

MAR 02 2010

Attention Carl F Watson Ph D

**Subject BUSAN 1009**  
EPA Registration No 1448-81  
Amendment Dated January 19 2010

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

**Proposed Amendment**

- Revise Storage and Disposal Section per PR Notice 2007-4

**General Comment**

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

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6217

Sincerely

A handwritten signature in black ink that reads "Marshall Swindell".

Marshall Swindell  
Product Manager (33)  
Regulatory Management Branch 1  
Antimicrobials Division (7510P)

Enclosure



# BUSAN 1009

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ACCEPTED  
with COMMENTS  
EPA Letter Dated  
MAR 02 2010

BUSAN is a registered trademark

**ACTIVE INGREDIENT(S)**

2-(Thiocyanomethylthio)benzothiazole

Methylene bis(thiocyanate)

**INERT INGREDIENTS**

(Contains Heavy Aromatic Naphtha & Petroleum Distillates)

**TOTAL**

10 0%  
10 0%  
80 0%

Under the Federal Insecticide  
Fungicide and Rodenticide Act as  
amended for the pesticide  
registered under EPA Reg No 1448-81

This product contains 0.84 lbs of each active ingredient per gallon

**KEEP OUT OF REACH OF CHILDREN  
DANGER PELIGRO**

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 This product may pose an aspiration pneumonia hazard Contains petroleum distillate	

## Precautionary Statements HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER** Corrosive Causes irreversible eye damage or skin burns May be fatal if swallowed or inhaled Do not get in eyes on skin or on clothing Do not breathe vapor Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals For handling activities during exposures wear either a respirator with an organic vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC 23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R P or HE prefilter Wear coveralls with long-sleeved shirt and long pants socks and chemical resistant footwear goggles or face shield and chemical-resistant gloves (such as barrier laminate butyl rubber nitrile rubber neoprene rubber polyvinyl chloride viton selection category C) Handlers participating in hand-dip applications including introduction of material to and removal from the dip and handling materials still wear from the dip must wear chemical-resistant full-front aprons with attached full sleeve gloves Follow manufacturer's instructions for cleaning/maintaining PPE If no such instructions for washables use detergent and hot water Keep and wash PPE separately from other laundry Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate Do not reuse them For cleaning equipment Add a chemical-resistant apron User must wash hands before eating drinking chewing gum using tobacco or using the toilet If pesticide gets inside clothing remove clothing immediately wash thoroughly and put on clean clothing Users must remove PPE immediately after handling this product Wash the outside of gloves before removing As soon as possible wash thoroughly and change into clean clothing Remove contaminated clothing and wash clothing before reuse

**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

**PHYSICAL AND CHEMICAL HAZARDS** Combustible Do not use or store near heat or open flames



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ACCEPTED  
with COMMENTS  
EPA Letter Dated

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Under the Federal Insecticide  
Fungicide and Rodenticide Act as  
amended for the pesticide  
registered under EPA Reg No 1448-81

## Storage and Disposal

Do not contaminate water food or feed by storage or disposal

**PESTICIDE 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

(Text for all nonrefillable containers)

**Nonrefillable container** Do not reuse or refill this container Offer for recycling if available Triple rinse container (or equivalent) promptly after emptying (Liquid residue removal statement for nonrefillable containers with capacity of 5 gals or less)

Triple rinse as follows Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip Fill the container 1/4 full with water and recap Shake for 10 seconds Pour rinsate into application equipment or a mix tank or store rinsate for the later use or disposal Drain for 10 seconds after the flow begins to drip Repeat this procedure two more times

(Liquid residue removal statement for nonrefillable containers with capacity of >5 gals)

Triple rinse as follows Empty the remaining contents into application equipment or a mix tank Fill the container 1/4 full with water Replace and tighten closures Tip container on its side and roll it back and forth ensuring at least one complete revolution for 30 seconds Stand the container on its end and tip it back and forth several times Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal Repeat this procedure two more times

(Text for all nonrefillable containers)

Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or if allowed by state and local authorities by burning If burned stay out of smoke

(Text for refillable containers)

**Refillable container** Refill this container with pesticide only Do not reuse this container for any other purpose Cleaning the container before final disposal is the responsibility of the person disposing of the container Cleaning before refilling is the responsibility of the refiller

For containers larger than 55 gallons

To clean the container prior to refilling or disposal use a pressure wash as follows Empty the remaining contents into application equipment or a mix tank Use a pressure wash system that rinses all interior sides with water and that is rated at >40 psi and >120F Pressure wash the container for a length of time that ensures that a minimum 25% of the container volume of water is used During the pressure wash ensure that the container valve is left open for continuous draining Collect the rinsate and empty into application equipment or a mix tank or store rinsate for later use or disposal Allow container to drain for 10 minutes after pressure wash is completed

For containers 55 gallons and smaller

To clean the container prior to refilling or disposal use a triple rinse wash as follows Empty the remaining contents from this container into application equipment or a mix tank Fill the container about 10 percent full with water Agitate vigorously Pour or pump rinsate into application equipment or a mix tank or store rinsate for later use or disposal Repeat this rinsing procedure two more times

Do not discharge rinsate containing this product 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 rinsate containing this product to sewer systems without prior approval from the local sewage treatment plant authority For guidance contact your State Water Board or Regional Office of the EPA

Batch code \_\_\_\_\_

**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 1448-81

Product Weight 9 lbs /gal 1.08 kg/L

Net contents are marked on the container

### HMIS / NPCA Ratings

Health 3 Flammability 2 Reactivity 1

### Last Revision

11/11/2009



# BUSAN 1009

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## Directions for Use

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

ACCEPTED  
with COMMENTS  
EPA Letter Dated  
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Under the Federal Insecticide and Rodenticide Act as amended for the pesticide, registered under EPA Reg No 14488/

**NOTE TO USER** Do not apply this product in a way that will contact workers or other persons

**SAPSTAIN AND MOLD CONTROL** BUSAN 1009 is used to control sapstain and mold on freshly cut hardwood and softwood lumber logs poles posts and timbers It is applied by dipping the wood until complete surface wetting is accomplished Use 0.5 to 2.0 gallons of BUSAN 1009/100 gallons water (5 to 18 lbs of BUSAN 1009/100 gallons water) and agitate vigorously until BUSAN 1009 is thoroughly dispersed Rates to be used will vary according to temperature humidity wood moisture storage 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 1009 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 1009 is added to these materials in concentrations of 50-400 ppm (weight/weight) Pulp that may be held in storage for 8 hours to 1 week should be treated with 0.25 to 0.75 kg of BUSAN 1009 per tonne (0.5 to 1.5 lbs per ton) of moisture free pulp BUSAN 1009 may be added to contaminated fresh water at the rate of 0.25 ppm for treatment periods of 6-12 hours out of each 24 hours

**PULP MILLS** To protect wood chips from fungal degradation during storage BUSAN 1009 is used at 0.5 to 2 lbs/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 All persons not directly participating in such spray applications in enclosed or indoor areas must be excluded from the treatment site and from an area extending at least 25 feet from the perimeter of the treatment site until application is complete and sprays have settled out of the air For preservation of wet lap or sheet pulp BUSAN 1009 is used at 0.5 to 4 lbs/ton of oven dry fiber It is applied to the surface of dewatered pulp by means of applicator rolls Pulp that may be held in storage for 8 hours to 1 week should be treated with 0.25 to 0.75 kg of BUSAN 1009 per tonne (0.5 to 1.5 lbs per ton) of moisture free pulp *Not registered for this use in California*

**PARTICLE BOARD** BUSAN 1009 is employed as a preservative against mold and fungi for particle board insulation board and other wood base fiber and particle panel materials In this use BUSAN 1009 is mixed with the furnish resin or binding agent at 0.1 to 0.3% based on the dry weight of the wood *Not registered for this use in California*

**BACTERIOSTATIC PAPER** BUSAN 1009 may be used in the production of bacteriostatic paper and paperboard when included in the coating formulation at a dosage of 0.5-9.0% weight/weight of product and added at the size press or similar application The bacteriostatic paper and paperboard applications are not to be used in the manufacture of food contact paper paper coatings or paperboard *Not registered for this use in California*

**COOLING TOWERS** BUSAN 1009 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 1009 in water onto the clean wood surfaces The amount applied should provide 0.6 to 0.8 lb BUSAN 1009 per 1000 sq ft of wood surface Soft or surface rot can also be inhibited by periodic shock doses of BUSAN 1009 to the recirculating cooling water at the tower basin or cold well The dosage should provide 1.25 lb of BUSAN 1009 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 In systems greater than or equal to 4000 gallons do not apply BUSAN 1009 by open pouring of liquid to cooling water systems a metering pump delivery system is required for this use and application method *Not registered for this use in California*

**COOLING WATER** BUSAN 1009 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 1009 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 In systems greater than or equal to 4000 gallons do not apply BUSAN 1009 by open pouring of liquid to cooling water systems a metering pump delivery system is required for this use and application method

**DRILLING FLUIDS** To inhibit bacterial and fungal degradation of the fluids or muds used in the drilling of wells BUSAN 1009 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 1009 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 3.9 to 13.0 fl oz of BUSAN 1009 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 3.9 to 13.0 fl oz BUSAN 1009 per 1000 gal of water continuously until desired degree of control is achieved Then treat with 3.9 to 13.0 fl oz BUSAN 1009 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 3.9 to 13.0 fl oz BUSAN 1009 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 1009 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 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 0.6 to 6.0 fl oz 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 1009 is used to prevent bacterial decomposition of brine cured hides and skins BUSAN 1009 should be used at a level of 0.003-0.02% (30-200 ppm) based upon the weight of green fleshed hides or skins and saturated brine solution In raceway operations BUSAN 1009 can be added directly to the raceway during the addition of hides and operation of paddles In processor/mixer applications BUSAN 1009 should be added as dispersion in water A satisfactory dispersion of 1 part BUSAN 1009 plus 4 parts water can be prepared by adding the BUSAN 1009 to the water (as opposed to adding water to BUSAN 1009) with agitation *Not registered for this use in California*

**LEATHER** BUSAN 1009 can be used to prevent bacterial decomposition of brine cured wet salted air dried or green fleshed hides/skins in the soaking process For this purpose treatment levels of 0.02-0.05% (200-500 ppm) based on the total weight of hides/skins and process water (float) BUSAN 1009 is recommended for the prevention of mold in the storage transport and processing of wet leather stock such as pickled vegetable chrome alternative metal or metal free tanned hides/skins For this purpose BUSAN 1009 is used at treatment rates of 0.05-0.25% (500-2500 ppm) of white lime stock weight A dispersion as described above should be prepared and added to the pickling solution or tanning liquor or during the tanning operation 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 0.025-0.075% (250-750 ppm) based on the split and shaved weight of leather being processed *Not registered for this use in California*

**PIGMENT SLURRIES COATINGS NON FOOD ADHESIVES CAULKS AND SEALANTS** For the preservation of pigment slurries coatings non food adhesives caulks and sealants BUSAN 1009 should be added at a point in the processing system where there is sufficient time and agitation for good mixing and dispersion The actual amount of material to be added for the preservation of any given formulation will depend on the components and storage time and conditions Dosage rates should be determined by actual testing For pigment slurries coatings non food adhesives caulks and sealants which are subject to bacterial and fungal attack in their containers BUSAN 1009 should be added at use levels of 0.5 to 0.75% by weight to inhibit this attack To inhibit fungal growth on the dried coating non food adhesive caulk or sealant BUSAN 1009 should be incorporated at a use level of 0.75 to 2.5% by weight To formulate coatings that are mold resistant and that prevent sapstain and decay by fungi BUSAN 1009 should be added at use levels of 0.5 to 9.0% based on the total weight of the formulation The exact level to use will depend on the severity of the contamination as well as the nature and amounts of other components of the formulation