

1448-104

05/22/2012

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Antimicrobials Division (7510C)
1200 Pennsylvania Avenue NW
Washington, D.C. 20460

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

EPA Reg. Number:

1448-104

Date of Issuance:

MAY 22 2012

Term of Issuance:

Conditional

Name of Pesticide Product:

Busan 1059

Name and Address of Registrant (include ZIP Code):

Buckman Laboratories, Inc.
1256 N. 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.

Based on your response to the Dazomet RED, the EPA has reregistered this product subject to the comments recorded in the succeeding paragraph. This action is taken under the authority of section 4(g) (2) of the Federal Insecticide, Fungicide and Rodenticide Acts, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. The EPA may require submission of data at any time to maintain the registration of the subject product.

1. Make the following label changes:

a. The EPA Registration Number must read "1448-104".

Signature of Approving Official:

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

Date:

MAY 22 2012

b. Per the Product Chemistry review, the ingredient statement must be revised to read: "Other Ingredients" instead of the current Inert Ingredients.

c. The signal word currently on the label "WARNING" must be revised to read "DANGER".

d. Based on toxicity ranking per the acute toxicity review, the First Aid statements must be placed on the label in the following order:

"If on Skin or Clothing.....
If Swallowed
If Inhaled.....
If in Eyes....."

e. The Agency recommends that the following information be included, if applicable, in the Note to Physician for this product:

- Technical information on symptomatology;
- Use of supportive treatments to maintain life functions;
- Medicine that will counteract the specific physiological effects of the pesticide;
- Company telephone number to specific medical personnel who can provide specialized medical advice.

f. Per the acute toxicity review, the Hazards to Humans and Domestic Animals must be revised to read:

"DANGER
Corrosive. Causes skin burns. Do not get in eyes, on skin, or on clothing. May be fatal if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Avoid breathing dust."

g. The following PPE must be added to the label:

"Wear coveralls over long-sleeved shirt and long pants, socks, chemical-resistant shoes, goggles or face shield and chemical-resistant gloves (such as or made out of any waterproof material, Section Category A) when handling or applying the product.."

h. The following User Safety Requirements text must be added to the label:

"Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them."

i. User Safety Recommendations must be added to the label and placed in a box:

"User Safety Recommendations

Wash hands before, eating, drinking, chewing gum, using tobacco, or using the toilet.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing."

j. The following text must be added to the Environmental Hazards section of the label:

"This pesticide is toxic to fish, aquatic invertebrates, oysters, and shrimp."

"This pesticide is expected to be toxic when in contact with terrestrial or aquatic plants."

k. Per the product chemistry review, a physical or chemical hazards statement must be added to the label to address the products incompatibility with oxidizing agents.

l. Per the RED, for Directions for Use under the WOOD AND WOOD PRODUCTS subheading the registrant must add language clarifying application methods:

- Plug the pre-drilled hoes immediately after applications;
- Do not treat structures/beams indoors;
- Do not drill an application hole through seasoning checks to apply product.
- If the hole intersects a check, plug the hole and drill another. If more than 2 treatment holes intersect
- an internal void or rot pocket, re-drill the hoes farther up the pole into relatively solid wood.

12. For additional labeling clarity and consistency, please refer to the enclosed EPA reviews.

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.

Submit two (2) copies of the revised labeling bearing the labeling revisions listed above. A stamped copy of the label is enclosed for your records.

If you have questions concerning this matter, please contact me at (703) 308-6341 or by email at swindell.marshall@epa.gov or Martha L. Terry at (703) 308-6217 or by email at terry.martha@epa.gov.

Sincerely,



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

Enclosures

BUSAN 1059

BUSAN is a registered trademark.

Acc'd 11/17/10

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ACTIVE INGREDIENT(S)

Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione.....

98.0%

INERT INGREDIENT(S).....

2.0%

TOTAL.....

100.0%

KEEP OUT OF REACH OF CHILDREN WARNING

ACCEPTED
with COMMENTS
EPA Letter Dated:

MAY 22 2012

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No.
1448-124

FIRST AID	
If in Eyes	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - 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 901-767-2722 for emergency medical treatment information.	
NOTE TO PHYSICIAN	
Probable mucosal damage may contraindicate gastric lavage.	

Precautionary Statements

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Corrosive. Harmful or fatal if swallowed or absorbed through skin. Causes eye damage and severe skin irritation. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear goggles or face shield and rubber gloves when handling. May cause skin sensitization.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish. 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 Systems (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewage systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL/CHEMICAL HAZARDS: Solubility in water: 0.2%. Melting Point: 106°C.

BUSAN 1059

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FOR USE AS A PRESERVATIVE IN PAPER MILLS, IN INDUSTRIALLY PREPARED WATER BASED SUSPENSIONS (PIGMENT SLURRIES, ADHESIVES, POLYMERS, AND STARCHES), AS AN ANTIMICROBIAL IN OILFIELD OPERATIONS, RECIRCULATING COOLING WATER SYSTEMS, EPOXY FLOORING COMPOUNDS, AND WOOD AND WOOD PRODUCTS.

Storage and Disposal

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

PESTICIDE STORAGE: Protect from temperatures in excess of 140°F. Keep container closed when not in use. If contents are spilled or leaked due to container damage, collect and dispose of in accordance with local, state, and federal pesticide disposal regulations.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. 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 the nearest EPA Regional Office for Guidance.

CONTAINER HANDLING:

(Use SUPERSACK, or BAG section as appropriate for container)

SUPERSACK: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. When empty, dispose of bag in a sanitary landfill or by incineration, or offer for recycling, if available. Do not burn, unless allowed by State or local authorities. If burned, stay out of smoke.

BAG: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. When empty, dispose of bag in a sanitary landfill or by incineration, or offer for recycling, if available. Do not burn, unless allowed by State or local authorities. If burned, stay out of smoke.

ACCEPTED
with COMMENTS
EPA Letter Dated:
MAY 22 2012

Manufactured by Buckman Laboratories, Inc.

1256 North McLean Blvd., Memphis, Tennessee 38108
(901) 278-0330 or 1-800-282-5626

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, and registered under
EPA Reg. No.
1448-104

EPA Est. No. 1448-TN-1

EPA Reg. No. 1448-104

Product Weight 4.4 lbs/gal 0.53 kg/l

Net contents are marked on the container.

HMIS / NPCA Ratings

Health 3 Flammability 1 Reactivity 1

Last
Revision
4/1/2010

BUSAN 1059

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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.

PAPER MILL SLIME CONTROL: FOR THE CONTROL OF SLIME-FORMING AND/OR SPOILAGE BACTERIA: BUSAN 1059 is added at a point in the system (raw stock chest, beater and/or refiner chest, or machine chest-wirepit) where it will be uniformly mixed. Add 0.09 to 0.38 pounds of BUSAN 1059 per ton of paper produced.

FOR INDUSTRIALLY PREPARED WATER-BASED SUSPENSIONS (PIGMENT SLURRIES, ADHESIVES, POLYMERS, AND STARCHES) USE:

FOR THE PRESERVATION OF CLAY SLURRIES, ADHESIVES, COATINGS AND HIGH VISCOSITY SUSPENSIONS: For preservation of slurries and high viscosity suspensions, BUSAN 1059 should be added at a point in the processing system where there will be sufficient time and agitation for good mixing and dispersion. Add BUSAN 1059 at use levels of 0.01-0.11% by weight, based on the total formulation in slurries of starch, clay, calcium, carbonate or titanium dioxide; paper coatings; high viscosity suspensions (e.g., polymers; silica-polymers; silica-polymer combinations); polyvinyl alcohol/polyvinyl acetate based adhesives; starch based adhesives; dextrin based adhesives. For Water Soluble Packaging, this may be accomplished by adding from 1 to 3 pounds of BUSAN 1059 to each 10,000 pounds based on the weight of the total formulation. The exact amount of material to be added for the preservation of any given formulation will depend on the components and local storage time and conditions. Dosage rates should be determined by actual tests.

FOR OILFIELD OPERATIONS USE:

OILFIELD DRILLING MUDS AND WORKOVER OR COMPLETION FLUIDS: FOR CONTROL OF SLIME-FORMING AND/OR SPOILAGE BACTERIA

: Determine the total volume of the circulating system. Calculate the number of pounds of BUSAN 1059 needed to produce a concentration of 520 ppm (0.18 lb/bbl) BUSAN 1059 in the drilling mud circulating system. For example, 182 pounds of BUSAN 1059 per 1000 barrels of drilling fluid will produce the proper concentration. For best results, add BUSAN 1059 in a thin stream to the pit while the drilling fluid is circulating. As the total volume increases, due to greater well depth, add additional BUSAN 1059 to maintain the proper concentration. Because of the wide variation in drilling mud composition and bacterial contamination, greater or lesser amounts of the antimicrobial agent may be prescribed.

OILFIELD WATER TREATMENT AND WATER FLOODS: FOR CONTROL OF SLIME-FORMING AND/OR SPOILAGE BACTERIA: Calculate the total volume of water to be treated. Using this volume, calculate the number of pounds of BUSAN 1059 needed to produce a concentration of approximately 625 ppm BUSAN 1059. For example, 5.22 pounds of BUSAN 1059 per each 1000 gallons of total volume will produce this dilution. For Water Soluble Packaging, for example, 1 pound of BUSAN 1059 per each 191 gallons of total volume will produce this solution. To maintain bacterial control, 88 ppm BUSAN 1059 added each week is recommended. This may be accomplished by adding 0.73 pounds of BUSAN 1059 to each 1000 gallons of total volume. For Water Soluble Packaging, this may be accomplished by adding 1 pound of BUSAN 1059 to each 1363 gallons of total volume.

RECIRCULATING COOLING WATER SYSTEMS: FOR CONTROL OF ALGAE, FUNGI AND SLIME FORMING BACTERIA: Dosages for recirculating cooling water systems will depend on the condition of the system prior to treatment initiation. Systems which are heavily contaminated should be cleaned first. Apply BUSAN 1059 to the cleaned system when growth is first noticed according to the following schedule.

INITIAL DOSE: Calculate the total volume of water to be treated. Using this volume, calculate the number of pounds of BUSAN 1059 needed to produce a concentration of 7.5 - 15 ppm of BUSAN 1059 per each 1000 gallons of water in the system. For Water Soluble Packaging, this may be accomplished by adding 1 pound of BUSAN 1059 per each 8,000 - 16,000 gallons of water in the system. This dosage may be a continuous treatment or applied once, twice or three times weekly or as required to control the growth of slime forming organisms.

SUBSEQUENT DOSAGE: When microbial control is evident add 1.25 - 7.5 ppm of BUSAN 1059 per 1000 gallons of water in the system as a continuous treatment daily or every three days as required to maintain control. For Water Soluble Packaging, this may be accomplished by adding 1 pound of BUSAN 1059 per each 16,000 - 96,000 gallons of water in the system.

EPOXY FLOORING COMPOUNDS: For epoxy flooring compounds add BUSAN 1059 at use levels of 0.05 to 0.6%, by weight, based on the total formulation of the compound to inhibit bacterial and fungal growth on the finished compound.

WOOD AND WOOD PRODUCTS: BUSAN 1059 is recommended for the internal remedial treatment and protection of wood products such as utility poles, pilings, timbers, and other large solid or laminated wood products against fungal decay. BUSAN 1059 is designed to be placed inside the wood product to be treated. The total amount applied will be dependent on the size of the wood unit and the zone to be protected. BUSAN 1059 is applied in treatment holes drilled into the wood at a 45 degree angle downward or greater, which are then plugged. For wood in ground contact, the first hole should start at or slightly below ground-line and should be arranged in a spiral pattern covering the treatment zone with about 6 to 12 inches vertically between holes. Do not overfill the treatment holes to allow room for a plug.

The following example can be used as a guide for the application of this product to treat the groundline zone of a 40 inch circumference standing utility pole.

1. Drill three 7/8 inch diameter by 14 inch long holes at a steep downward angle in a spiral pattern starting at groundline as described above.
2. Apply 70 grams of BUSAN 1059 into each hole, using a calibrated applicator.
3. Add liquid accelerant if desired to treatment hole.
4. Plug the treatment hole with a tight fitting treated wooden dowel, removable plastic plug or other suitable cap.

An accelerant of a 1% solution of copper naphthenate in mineral spirits may be added to treatment holes after BUSAN 1059, and is designed to speed the decomposition and release of active fumigant inside the wood product. Accelerating the release of fumigant is especially desirable when active decay is present. Keep accelerants away from BUSAN 1059 except in treatment holes, which should be plugged immediately after they combine.

BUSAN 1059 is not to be used indoors or underneath indoor structures.

WILL COMMENTS
EPA Letter Dated:

MAY 22 2012

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No.
1448-104