



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

March 23, 2020

Andy Vachon
Regulatory Specialist 1
Buckman Laboratories, Inc.
1256 North McLean Blvd.
Memphis, TN 38108

Subject: Notification per PRN 98-10 –Revise label, Update company logo, remove
manufactured by to “sold by” and remove HMIS/NPCA ratings
Product Name: BUSAN 1059
EPA Registration Number: 1448-104
Application Date: January 8, 2020
Decision Number: 560174

Dear Mr. Vachon:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division (AD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you have any questions, you may contact Zebora Johnson at (703) 308-7080 or via email at johnson.zebora@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Steven Snyderman".

Steven Snyderman
Acting Product Manager 33
Regulatory Management Branch I
Antimicrobials Division (7510P)

NOTIFICATION

1448-104

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

03/23/2020



BUSAN[®] 1059

ACTIVE INGREDIENT

Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione 98.0%

OTHER INGREDIENTS 2.0%

TOTAL 100.0%

KEEP OUT OF REACH OF CHILDREN DANGER

FIRST AID	
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.
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.
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 CHEMTREC at 1-703-741-5970 for emergency medical treatment information.	
NOTE TO PHYSICIAN	
Probable mucosal damage may contraindicate the use of gastric lavage. Treat symptomatically. No known antidote.	

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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. 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 this product. Remove and wash contaminated clothing before reuse. May cause skin sensitization.

PERSONAL PROTECTIVE EQUIPMENT (PPE): Appropriate PPE (long pants, long-sleeved shirts, chemical resistant gloves, and goggles or face shield) must be used when applying the product.

ENVIRONMENTAL HAZARDS: 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. 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. Avoid oxidizing agents.

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 (non-paint), ADHESIVES, POLYMERS, AND STARCHES) USE:

FOR THE PRESERVATION OF CLAY SLURRIES, ADHESIVES, COATINGS (non-paint) 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-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.

- Plug the pre-drilled holes 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 holes farther up the pole into relatively solid wood

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 ground line 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 or fuel oil, or a 2% copper metal water based solution, 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.

FOR USE AS A PRESERVATIVE IN PAPER MILLS, IN INDUSTRIALLY PREPARED WATER BASED SUSPENSIONS (PIGMENT SLURRIES (non-paint), 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.

Containers equal to or less than 50 lbs

Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. 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. Turn the container over onto its other 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. 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.

Larger than 55 gallons

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.

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 >120°F. 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.

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.

55 gallons and smaller

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.

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.

Sold By:

Buckman Laboratories, Inc.

1256 N. McLean Blvd., Memphis, Tennessee 38108, U.S.A.
(901) 278-0330 or 1-800-282-5626

EPA Est. No. 1448-TN-1 EPA Reg. No. 1448-104

Product Weight: 47 lb/cu. ft.

NET CONTENTS MARKED ON CONTAINER

Batch code: _____

Revised: **01/07/2020**