



U.S. ENVIRONMENTAL PROTECTION AGENCY
 Office of Pesticide Programs
 Antimicrobials Division (7510P)
 1200 Pennsylvania Ave., N.W.
 Washington, D.C. 20460

EPA Reg. Number:

1448-448

Date of Issuance:

7/22/20

NOTICE OF PESTICIDE:

Registration
 Reregistration
 (under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

BUSAN® 1078CF NA

Name and Address of Registrant (include ZIP Code):

Buckman Laboratories, Inc.
 1256 North McLean Blvd,
 Memphis TN 38108-1241 USA

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Antimicrobials 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 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 section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Joseph Varco
 Acting Product Manager, Team 33
 Regulatory Management Branch I
 Antimicrobials Division
 Office of Pesticide Programs

Date:

7/22/20

2. You are required to comply with the data requirements described in the DCI Order identified below:
 - a. GDCI 107103-1709
 - b. GDCI 107104-1479

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Reevaluation Team Leader (Team 36): <http://www2.epa.gov/pesticide-contacts/contacts-office-pesticide-programs-antimicrobial-division>

3. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, “EPA Reg. No. 1448-448.”
4. Submit one copy of the final printed label for the record before you release the product for shipment.

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 fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 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. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated July 17, 2020

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

Sincerely,



Joseph Varco
Acting Product Manager, Team 33
Regulatory Management Branch I
Antimicrobials Division
Office of Pesticide Programs

Enclosure



ACCEPTED
 07/22/2020
 Under the Federal Insecticide, Fungicide
 and Rodenticide Act as amended, for the
 pesticide registered under
 EPA Reg. No. 1448-448

BUSAN[®] 1078CF_{NA}

Industrial Microbicide for use in Paper Mills, Industrial Recirculating Water Towers, Air Washer Systems, Industrial Recirculating Closed Loop Water Cooling Systems, Polymer Latex Preservation, Adhesive and Tackifier Preservation, Paints and Coatings Preservation, Building Material Preservation, Dispersed Pigment Preservation and Reverse Osmosis systems.

ACTIVE INGREDIENT(S):

5-Chloro-2-methyl-4-isothiazolin-3-one1.11%
 2-methyl-4-isothiazolin-3-one0.37%

INERT INGREDIENTS:98.52%

TOTAL100.00%

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

FIRST AID	
If in Eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15–20 min. • Remove contact lenses, if present, after first 5 min. then continue rinsing eye. • Call a poison control center or doctor for further treatment advice.
If Swallowed	<ul style="list-style-type: none"> • Call a 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 a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on Skin	<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 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	
<p>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.</p>	
NOTE TO PHYSICIAN	
<p>Probable mucosal damage may contraindicate the use of gastric lavage.</p>	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive. Causes skin burn s. Do not get in eyes, on skin, or on clothing. Wear (list appropriate). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE):

Mixers, loaders and others exposed to this product must wear:

- Long-sleeved shirt and long pants
- Socks and Shoes
- Goggles or face shield
- Chemical resistant gloves (such as rubber or made out of any waterproof material)

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

User Safety Recommendations:

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate.

Physicals and Chemical Hazard: This product is corrosive to mild steel.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to aquatic plants, fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes streams, ponds, estuaries, oceans, or public 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. Do not contaminate water by cleaning of equipment or disposal of waste. Apply this pesticide only as specified on the label.

DIRECTIONS FOR USE

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

PAPER MILLS: For the control of bacterial and fungal slime in the production of paper. **POINT OF ADDITION:** BUSAN 1078CF_{NA} should be added to a point in the system to ensure uniform mixing such as the Beater or Hydropulper to ensure uniform mixing. **DOSAGE:** Apply 0.45 to 1.5 lbs per ton (dry basis) of pulp or paper, as a slug dose. **Not registered for this use in California**

INDUSTRIAL RECIRCULATING WATER COOLING TOWERS: BUSAN 1078CF_{NA} is recommended for the control of bacteria, algae and fungi. It should be added to the tower basin or some other point to ensure uniform mixing. For noticeably fouled systems use an initial dose of 1.25 to 7.5 lbs of BUSAN 1078CF_{NA} per 1,000 gallons of water. Repeat if necessary to achieve

control. Typical application rates are 0.03 to 0.186% wt/wt (0.3 to 1.86 lbs per 1,000 gallons of water (35 to 220 ppm BUSAN 1078CF_{NA}).

AIR WASH SYSTEMS: For use only in industrial air washing systems that maintain effective mist eliminating components. Add to the air washer sump or chill water sump to ensure uniform mixing, for control of bacteria, fungi and algae. A repeat treatment may be needed depending upon the severity of contamination. Typical application rates are 0.03 to 0.75% wt/wt (0.3 to 7.5 lbs per 1,000 gallons of water (35 to 866 ppm BUSAN 1078CF_{NA}).

INDUSTRIAL PROCESS WATER: BUSAN 1078CF_{NA} is recommended for the control of bacteria and fungi in the storage of process wash waters. Typical application rates are 0.05 to 0.30% (0.5 to 3.05 lbs per 1,000 gallons of wash water. *Not registered for this use in California*

INDUSTRIAL RECIRCULATING CLOSED-LOOP WATER COOLING SYSTEMS: To maintain control of bacteria, fungi and algae, add to the reservoir, recirculating line or some other point in the system to ensure uniform mixing. For noticeably fouled systems an initial treatment of 1.25 to 7.5 lbs of BUSAN 1078CF_{NA} per 1,000 gallons of water may be needed depending on the severity of the fouling. Typical application rates are 0.3 to 1.86 lbs per 1,000 gallons of water, weekly.

PRESERVATION FOR LATICES: BUSAN 1078CF_{NA} is recommended for the control of bacteria and fungi in the manufacture and storage of synthetic and natural polymer latices including; acrylics, styrene/butadiene, carboxylated styrene/butadiene, ethylene/vinyl acetate and biopolymers intended for industrial use, such as xanthum gum, gum arabic, guar gum, protein-derived polymers, starches, and casein-derived polymers. Typical application rates are 0.05 to 0.33% wt/wt (0.05 to 3.3 lbs per 1,000 lbs of emulsion; or 227 gm to 1.5 kg per 454 kg of emulsion). NOTE: To ensure uniform mixing, add 1078CF_{NA} to latex or solutions slowly with agitation. The actual concentrations required will depend upon such factors as the specific substance to be treated, frequency of repeated microbial contamination expected, and level of protection required.

PRESERVATIVE FOR ADHESIVES AND TACKIFIERS: BUSAN 1078CF_{NA} is recommended as an in-container preservative for the control of bacteria and fungi in water-soluble and water-dispersed adhesives such as animal glues, vegetable glues, natural rubber latices, polyvinyl acetate, styrene-butadiene, and acrylic latices. BUSAN 1078CF_{NA} is recommended as a preservative for tackifiers derived from rosin and hydrocarbon resins. Typical application rates are 0.05 to 0.165% wt/wt (0.5 to 1.65 lbs of per 1,000 lbs formulation). Note: For storage during extremely high temperatures and humidity, use up to 0.3% (3.0 lbs per 1000 lbs formulation).

PRESERVATIVE FOR BUILDING MATERIALS: BUSAN 1078CF_{NA} is recommended as an in-container preservative for the control of bacteria and fungi in building materials such as mastics, caulks, joint cement, spackling, grouting and concrete admixtures. Typical application rates are 0.05 to 0.165% wt/wt (0.5 to 1.65 lbs per 1,000 lbs fluid).

DISPERSED PIGMENT PRESERVATION: BUSAN 1078CF_{NA} is recommended for the control of bacteria and fungi in the manufacture and storage of dispersed pigments such as kaolin clay, montmorillonite clay, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate, dispersed colorants and kieselguhr used in paint and paper production. Typical application rates are 0.06 to 0.225% wt/wt (0.6 to 2.25 lbs per 1,000 lbs fluid; or 250 to 1,020 grams per 453 kg of fluid).

ULTRA FILTRATION UNITS, such as REVERSE OSMOSIS SYSTEMS: BUSAN 1078CF_{NA} is recommended for the control of bacteria and fungi in ultra filtration units, such as reverse osmosis systems. Add into industrial ultra filtration or reverse osmosis systems by either continuous feed or periodic injection. Compatibility of BUSAN 1078CF_{NA} with reverse osmosis membranes should be confirmed with membrane manufacturers. Typical application rates are 10 to 333 ppm BUSAN 1078CF_{NA}. For the control of bacterial and fungi in carbon beds add 10 to 333 ppm BUSAN 1078CF_{NA}. For periodic membrane cleaning, add 0.4 to 1.0 lbs per 120 gal of cleaning solution. Badly fouled systems should be cleaned before treatment is begun. *Not registered for this use in California.*

PRESERVATIVE FOR PAINTS AND COATINGS: BUSAN 1078CF_{NA} is recommended as an in-container preservative for the control of bacteria and fungi in water-based coatings such as paper and wood coatings and paints used for architectural, product finishes and special purpose coatings. Typical application rates are 0.05 to 0.165% wt/wt (0.5 to 1.65 lbs per 1,000 lbs fluid; or 227 to 750 gm per 454 kg fluid).

Note: A higher dosage rate may be required for storage during extremely high temperatures and humidity, use up to 0.3% (3.0 lbs per 1,000 lbs fluid).

Special purpose coating preservation uses:

PHOTOPLATE PROCESSING, FOUNTAIN SOLUTIONS, AND INK/INK COMPONENTS:

BUSAN 1078CF_{NA} is recommended for the control of bacteria and fungi in photoplate processing such as stabilizer solutions and in fountain solutions. BUSAN 1078CF_{NA} is recommended for water-based printing inks such as flexographic, gravure, screen and ink jet types. BUSAN 1078CF_{NA} is recommended for the control of bacteria and fungi in printing ink components such as resins, plasticizers, water soluble dyes, pigments, gelling agents, waxes, surfactants, and thickeners.

BUSAN 1078CF_{NA} should be added to achieve the recommended dosage range for ink, ink components, fountain solutions and photoplate processing chemical of 0.1 to 1.0% on a total weight basis. The optimum level range for acidic fountain solutions is 0.2% to 0.5%; the optimum level range for neutral fountain solutions is 0.5% to 0.8%. A level adjustment may be necessary to accommodate the slight change in solution formulations.

Not approved for this use in the State of California

PRESERVATIVE IN SPIN FINISH COATINGS FOR FIBERS: BUSAN 1078CF_{NA} is recommended for the control of bacteria and algae in spin finish coating solutions used to coat fibers. BUSAN 1078CF_{NA} should be dispensed into the spin finish coating system at a point to ensure uniform mixing. It should be added to achieve the recommended dosage range of 0.05% to 0.5% on a total weight basis, with the optimum level used if fouling becomes noticeable.

Not approved for this use in the State of California

ELECTRODEPOSITION: BUSAN 1078CF_{NA} is recommended as a tankside additive for the control of bacteria, fungi, and algae in re-circulating electrodeposition systems and associated rinse systems. Alternately, BUSAN 1078CF_{NA} may be added through the components of the electro-deposition paint prior to their addition to the electrodeposition system.

Not approved for this use in the State of California

Tankside Addition to Electrodeposition Systems: BUSAN 1078CF_{NA} should be dispensed into the recirculating rinse system, ultrafilter permeate, or final distilled rinse system at a point to insure uniform mixing.

When the system is noticeably fouled, add 650 to 2245 ppm BUSAN 1078CF_{NA} (6.4 to 22.9 gallons per 10,000 gallons of fluid in the system). Repeat until control is achieved.

When microbial control is evident, add 321 to 962 ppm BUSAN 1078CF_{NA} (3.2 to 10.1 gallons per 10,000 gallons of fluid in the system) weekly or as needed to maintain the system. A change of frequency of treatment may be required depending on the rate of dilution of the preservative with the makeup fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc.

Not approved for this use in the State of California

TREATMENT OF ELECTRODEPOSITION PAINT COMPONENTS:

Initial Dose of Paint Components:

BUSAN 1078CF_{NA} should be added to the resin, pigment, or other component of the electrodeposition paint at a level to ensure that the final use-dilution fluid will contain 321 to 2245 ppm product.

Not approved for this use in the State of California

Supplemental Tanked Dosing of Electrodeposition System:

If additional microbial control is necessary, BUSAN 1078CF_{NA} may be added to the electrodeposition system tankside to supplement the microbiocide incorporated through paint components.

If the system becomes noticeably fouled, add 650 to 2245 ppm BUSAN 1078CF_{NA} (6.4 to 22.9 gallons per 10,000 gallons of fluid in the system). Repeat until control is achieved.

When microbial control is evident, the system can be maintained by addition of 321 to 962 ppm BUSAN 1078CF_{NA} (3.2 to 10.1 gallons per 10,000 gallons of fluid in the system) weekly or as needed.

Not approved for this use in the State of California

NOTE: Regardless of the manner of incorporation, the total level in the system should never exceed 2245 ppm BUSAN 1078CF_{NA} or 22.9 gallons per 10,000 gallons of system fluid.

NOTE: To insure uniform mixing, add BUSAN 1078CF_{NA} to latex or solution slowly with agitation. The actual concentrations required will depend upon such factors as the specific substance to be treated, frequency of repeated microbial contamination expected, and level of protection required.

STORAGE AND DISPOSAL

This product (pH) is corrosive to mild steel.

PESTICIDE STORAGE: Do not store or transport in unlined metal containers. Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If waste cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or Hazardous Waste representative at the nearest EPA Regional office for guidance.

CONTAINER DISPOSAL: NONREFILLABLE CONTAINER. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying.

[For containers <5 gallons in size] - Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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.

[For containers >5 gallons in size] - Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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. Then offer for recycling if approved by state and local authorities.

GENERAL: Consult State and local authorities or local disposal authorities for approved alternative procedures.

Batch code: _____

Sold by:

Buckman Laboratories, Inc.

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

EPA Reg. No. 1448-_____

EPA Est. No. 1448-TN-1 **EPA Est. No. 1448-MO-1**

Product Weight: 8.6 lbs/gal 1.03 kg/l

NET CONTENTS MARKED ON CONTAINER

Revised: 02/3/20