

PM 32 1448-345 72

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (75-767)
WASHINGTON, DC 20460

EPA REGISTRATION NO.

1448-345

DATE OF ISSUANCE
FEB 08 1990

TERM OF ISSUANCE

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION
(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT

BUSAN 6040

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Ruckman Laboratories, Inc.
1256 North McLean Boulevard
Memphis, TN 38108

NOTE: Changes in labeling formula 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 U.S. 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.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this 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) provided that you:

1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Add the phrase "EPA Registration No. 1448-345" to your label before you release the product for shipment.
3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with 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.

Walter C. Francis
Acting Product Manager (32)
Antimicrobial Program Branch
Registration Division (H7505C)

BEST AVAILABLE COPY

Enclosures

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

Pringle 1-22-90



BUSAN 6040

BUSAN is a registered trademark

INDUS L
MICROBICIDE

ACTIVE ING
Sodium brom

INERT ING

KEEP OUT OF REACH OF CHILDREN WARNING

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Irritation may develop from eye and skin exposure. Avoid contact with eyes. Wear gloves and safety goggles. Wash contaminated clothing before reuse.

FIRST AID: In case of eye contact, flush eyes with cold water for at least 15 minutes. If irritation persists, seek medical attention immediately. Prolonged skin contact can produce skin irritation. In case of skin contact, wash with cold water for 15 minutes.

ENVIRONMENTAL HAZARDS: Do not discharge into lakes, streams, ponds or public waters unless in accordance with an NPDES permit. For guidance, contact your regional office of the EPA.

PHYSICAL & CHEMICAL HAZARDS: Busan 6040 is not flammable. However, in fires fueled by other materials, hydrogen bromide or bromine may be released. In case of fire, wear self-contained breathing apparatus.

STORAGE & DISPOSAL

STORAGE: Keep product in tightly closed original container when not in use. Store in a dry, well ventilated area. Product should be stored at 0 degrees F or above.

DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Triple rinse the container (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in approved landfill, or incinerate. Burn only if allowed by state and local authorities. Do not burn, stay out of smoke.

in EPA Letter Dated:

FEB 08 1990

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

NET CONTENTS MARKED ON CONTAINER

Product Weight in Pounds per Gallon:

HHS/CPA RATINGS: Health 1 Flammability 0 Reactivity 1

EPA REG. NO. 1448-007

MANUFACTURED BY

BUCKMAN LABORATORIES, INC.

1256 N. McLEAN BLVD., MEMPHIS, TENN. 38108 USA

(901) 278-0820 or (901) 707-2722

EPA EST. NO. 1448-TN-1

DIRECTIONS

It is a violation of Federal law in a manner inconsistent

Busan 6040 is used as a disinfectant, fungicide, algicide, bactericide, and virus killer in commercial and industrial wastewater and process water systems. It is applied in conjunction with sodium hypochlorite (12.5%) or chlorine gas (99.9%) to produce hypochlorite control at an elevated pH (greater than 8). Busan 6040 is metered into existing NaOCl piping to form a solution. For more information, contact the feeder manufacturer or Buckman representative for appropriate and correct use of the feeder equipment for the application of Busan 6040.

WASTEWATER TREATMENT SYSTEMS: When used as disinfectant, Busan 6040 controls bacteria and fungal slimes and disinfects secondary and tertiary effluent. The quantity of Busan 6040 required varies with the degree of fouling. Apply sufficient Busan 6040 and chlorine or sodium hypochlorite to achieve residual bromine levels of 0.5 to 2.0 ppm 5 minutes after treatment (0.5 to 2.0 mole ratio of sodium bromide to oxidant) at various points in the system including a contact tank preceding the final clarifier or at the influent of the final clarifier.

RECIRCULATING COOLING WATER SYSTEMS: When used as disinfectant, Busan 6040 controls bacteria, fungi, algae and slimes in commercial and industrial cooling water systems, industrial water scrubbing systems, industrial process water systems, and industrial wastewater systems. Apply sufficient Busan 6040 and chlorine or sodium hypochlorite to achieve residual bromine levels of 0.5 to 2.0 ppm after treatment. A 0.5 to 2 mole ratio of sodium bromide to oxidant is recommended.

INDUSTRIAL ONCE-THROUGH COOLING WATER SYSTEMS: Busan 6040 controls bacteria, fungi, algae and slimes in once-through and recirculating cooling water systems. Apply Busan 6040 and chlorine or sodium hypochlorite to achieve residual bromine level of 0.5 to 5.0 ppm or as needed to maintain control. A 0.5 to 2 mole ratio of sodium bromide to oxidant is recommended.

PULP AND PAPER MILLS: When used in combination with chlorine or sodium hypochlorite, Busan 6040 controls bacteria and fungal slimes in pulp and paper mill fresh and secondary effluent, wastewater treatment systems, nonpotable water systems, and industrial wastewater systems. Apply sufficient Busan 6040 and chlorine or sodium hypochlorite to achieve residual bromine level of 0.5 to 5.0 ppm or as needed to maintain control. A 0.5 to 2 mole ratio of sodium bromide to oxidant is recommended. Busan 6040 can be added wherever chlorine or sodium hypochlorite is added.

DOSAGE RATES: Initial Dose: When the system is not under control, apply sufficient Busan 6040 and chlorine or sodium hypochlorite to achieve a residual bromine level of 0.5 to 2.0 ppm. A 0.5 to 2 mole ratio of sodium bromide to oxidant is recommended. A 0.5 to 2 mole ratio may be achieved by using 1.5 to 6.0 gallons NaOCl (12.5%) for each gallon of Busan 6040. Subsequent Dosing: Apply sufficient Busan 6040 and chlorine or sodium hypochlorite to achieve residual bromine levels of 0.5 to 2.0 ppm or as needed to maintain control. A 0.5 to 2 mole ratio of sodium bromide to oxidant is recommended. Typically, the recommended mole ratio may be achieved by using 1.5 to 6.2 gallons NaOCl (12.5%) for each gallon of Busan 6040. The treatment will depend upon the severity of the problem. Busan 6040 should be added in a manner such that the effluent discharges meet the NPDES requirements.