

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAY 11 1994

Buckman Laboratories, Inc.
1256 N. McLean Blvd.
Memphis, TN 38108

Attn: Dennis L. Barbee

Subject: Busan 1016
EPA Registration No. 1448-93
Amendment Dated March 3, 1993

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, to include the statement "do not induce vomiting", is acceptable, provided that you:

1. Make the following labeling changes below before you release the product for shipment bearing the amended labeling.

a. Change "Corrosive. Causes eye and skin damage" to read "Corrosive. Causes irreversible eye damage and skin burns".

b. Revise the statement "wear goggles or face shield and rubber gloves when handling" to read "wear goggles or face shield, rubber gloves and protective clothing."

c. Revise "wash thoroughly after handling" to "wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse."

d. Delete the words "(First Aid)".

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

e. Revise your "Environmental Hazards" statement to read

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.

2. Submit five (5) copies of final printed labeling before you release the product for shipment.

A release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records.

If you have any questions concerning this letter, please contact Martha Terry at 703-305-6982.

Sincerely,



Marshall Swindell
Acting Product Manager 31
Antimicrobial Program Branch
Registration Division 7505C

Enclosure

BUSAN 1016

BUSAN is a registered trademark.

**KEEP OUT OF REACH OF CHILDREN
DANGER**

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive. Causes eye and skin damage. May be fatal if swallowed. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling this product. Remove and wash contaminated clothing. Do not take internally.

STATEMENT OF PRACTICAL TREATMENT (FIRST AID): In case of skin contact, wash with plenty of soap and water. Remove contaminated clothing and wash before reuse. If product gets in the eyes, flush immediately with copious amounts of clean, cool water for at least 15 minutes. Get medical attention immediately. Ingestion: **DO NOT INDUCE VOMITING.** Rinse with copious amounts of water or milk first. Irrigate the esophagus and dilute stomach contents by slowly giving one (1) to two (2) glasses of water or milk. Avoid giving alcohol or alcohol related products. In cases where the individual is semi-comatose, comatose or convulsing, **DO NOT GIVE FLUIDS BY MOUTH.** In case of internal ingestion of the product seek medical assistance immediately; take individual to nearest medical facility.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression, and convulsion may be needed.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your Water Board or Regional Office of the EPA.

STORAGE AND DISPOSAL

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

STORAGE: Do not expose to extreme temperatures. Do not stack more than four 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 the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

DIRECTIONS FOR USE

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

Busan 1016 is a broad-spectrum microbicide that is effective in the control of the bacteria and fungi that cause sucrose losses, slime, and odors during the manufacture of raw cane and beet sugar. Busan 1016 is composed of materials which meet the requirements of 21 CFR 173.320.

CANE SUGAR MILLS: Busan 1016 should be added to the cane juice at points where the microbicide will circulate to all parts

ACTIVE INGREDIENTS:
Disodium cyanocobalamin
Sodium N-methylglucosaminide
INERT INGREDIENTS:

of the grinding equipment, troughs, screens, and pipes with which the juice comes in contact. Busan 1016 should be added to the juice from the crusher and the remainder to the juice from the diffuser. Busan 1016 should never be added to the maceration water. Busan 1016 should be fed continuously to the juice from the diffuser at a rate of 11.3 mL of Busan 1016 per minute for each 1000 tons of cane ground per 24-hour day (or 0.35 fl oz of Busan 1016 per minute for each 1000 tons of cane ground per 24-hour day). This is equivalent to 16.3 L (20.0 kg) of Busan 1016 per 1000 tonnes of cane ground per 1000 tons of cane ground per 24 hours.

BET SUGAR MILLS: Busan 1016 can be used in beet sugar mills to control bacteria and fungi in the wash water. It is added to the wash water continuously as it enters the washer at a rate of 11.3 mL of Busan 1016 per minute for each 1000 tonnes of beets sliced per 24-hour day. In diffuser systems, Busan 1016 should be added to the wash water supply at a dosage rate of 20.0 to 90 ppm. This is equivalent to 11.3 to 56.7 mL of Busan 1016 per minute for each 1000 tonnes of beets sliced per 24-hour day. If the diffuser system is used, the raw juice from the diffuser has to be stored for 1 to 3 days during a shutdown. This is equivalent to 73.4 L (89.7 kg) of Busan 1016 per 1000 tonnes of beets sliced per 24 hours (or 3.9 gallons (19.13 lb) of Busan 1016 per 1000 tons of beets sliced per 24 hours).

ACCEPTED FOR REGISTRATION
BY EPA REGION 4

MAY 1 1998

Under the Federal Insecticide, Fungicide, and Rodenticide Act, this pesticide is registered under the authority of the EPA.

BEST AVAILABLE

HMS/NPCA RATING
Health 3 Flammability 1 Reactivity 2

Manufactured By EPA Est. No. 1-100-000000
BUCKMAN LABORATORIES
1256 N. McLEAN BLVD., MEMPHIS, TN 38119
(901) 278-0330 or 1-800-451-7000

Rev. 4/21/92

373