



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

005242

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

DATE: March 15, 1984
SUBJECT: EPA Registration Number 1448-17
Busan 11-M1

FROM: Deloris F. Graham *DJH 3/22/84*
FHB/TSS *F. 3/22/84*

TO: Henry Jacoby
Product Manager (21)

Applicant: Backman Laboratories, Inc.
1256 North McLean Boulevard
Memphis, TN 38108

Active Ingredients:

Barium metaborate as BaB₂O₄·H₂O (minimum)...90%

Inert Ingredients.....10%

Background: Submitted Acute Inhalation Study. Study conducted by Hazleton Laboratories. Data under accession number 252065. Method of support not indicated.

Recommendation:

1. FHB/TSS finds this study acceptable to support conditional registration of this product.
2. The appropriate Toxicity Category for this study is III - CAUTION.

Label:

1. Precautionary Statements must be revised to include "Harmful if inhaled. If inhaled, remove victim to fresh air and give artificial respiration."

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Review:

1. Acute Inhalation Toxicity Study: Hazleton Laboratories, Project No. 197-178; December 6, 1983.

Procedure: Three groups consisting of 5 male and 5 female rats were exposed for four hours to one of the following concentrations of the test material: control 2.98 ± 0.15 mg/L (nominal concentration 14.52 mg/L) or 3.54 ± 0.394 mg/L (nominal concentration 21.70 mg/L). Temperature ranged between 70 and 78°F with relative humidity 61 to 84% in animal housing area. In control chamber temperature ranged from 74 to 75% with relative humidity ranging from 42 to 49%. Mass median particle size was $3.4 \pm 0.28\mu$ and $2.8 \pm 0.14\mu$ for concentrations 2.98 and 3.54 mg/L respectively. Observations made for 14 days postexposure. Necropsy performed on all animals.

Results: One out of five male rats died at 2.98 mg/L; 1/5 females rats died at 3.54 mg/L. Clinical signs reported included animals appeared languid, slight dyspnea, rhinorrhea, dust covered the fur, bloody crusts around the nose, polypnea, wheezing, animals decreased in weight. Necropsy report revealed scatterly pinpoint red areas of lungs and renal pelvis dilated of control group; dark red lobes of lungs, renal pelvis were dilated of animal treated at 2.98 mg/L concentration; lungs failed to collapse when thoracic cavity was open, uterine horns were distended with clear fluid in animals treated at 3.54 mg/L concentration.

Study Classification: Core Minimum Data. LC₅₀ must be submitted.

Toxicity Category: III - CAUTION

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BUSAN® 11-M1

MODIFIED BARIUM METABORATE PIGMENT

ACCEPTED
MAY 19 1981
 Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 1448-17

ACTIVE INGREDIENT: Barium metaborate as $BaB_2O_4 \cdot H_2O$ (minimum) 90%
INERT INGREDIENTS 10%
TOTAL 100%

KEEP OUT OF REACH OF CHILDREN WARNING

STATEMENT OF PRACTICAL TREATMENT

In case of eye or skin contact, flush with plenty of clean, cool water. If swallowed, drink one or two glasses of water and induce vomiting by sticking finger down throat. Call a physician immediately. Never give anything by mouth to an unconscious person.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

Harmful if swallowed. Dust irritating to skin, eyes, and respiratory tract. Protect eyes and skin and wear dust mask when handling. Wash thoroughly after handling. Avoid contamination of food.

ENVIRONMENTAL HAZARDS

Do not discharge into lakes, streams, ponds, or public waters unless in accordance with NPDES permit. For guidance contact your Regional Office of the EPA. Apply this product only as specified on this label.

DIRECTIONS FOR USE

GENERAL CLASSIFICATION

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

Busan 11-M1 is used for the preservation of paints and other coatings, as a corrosion-inhibiting pigment in coatings, and as a fire-retardant in paints and plastics. Information and technical bulletins on the use of the product will be furnished upon request when a description of the problem is provided.

To preserve coatings or sizings for paper or paperboard intended for contact with dry food products, Busan 11-M1 should be incorporated in the coating at 0.2 to 1.0 percent of the pigment based on the dry weight of the coating or sizing.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open burning and dumping prohibited. Do not reuse empty container.

PESTICIDE DISPOSAL: Pesticide, spray mixture, or rinseate that cannot be used or chemically reprocessed should be disposed of according to procedures approved by Federal, State, or local disposal authorities.

CONTAINER DISPOSAL: Consult Federal, State, or local disposal authorities for approved procedures.

Manufactured by

Buckman Laboratories, Inc.

Memphis, Tenn. 38108, U.S.A.

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EPA Reg. No. 1448-17-AA

NET CONTENTS: 50 LB (22.7 KG)

EPA Est. No. 1448-TN-1

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B/E