

12-5-85



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

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OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

DEC 05 1985

SUBJECT: EPA Registration No. 1471-62
Balan Herbicide

FROM: Deloris F. Graham
Fungicide-Herbicide
Technical Support Section
Registration Division (TS-769)

E 12/11/85

TO: Robert J. Taylor
Product Manager (25)
Fungicide-Herbicide Branch
Registration Division (TS-767C)

Applicant: Elanco Products Company
740 South Alabama Street
Indianapolis, IN 46285

Active Ingredient:

N-butyl-N-ethyl- α,α,α -trifluoro
-2,6-dinitro-p-toluidine. 2.5%
Inert Ingredients. 99.5%

Background:

Acute Oral, Dermal, Ocular Toxicity Studies. Studies conducted by Lilly Research Laboratories. Studies under Accession Number 256359. Method of support not indicated. This product label was stamped acceptable on November 6, 1984, prior to this toxicity review on December 5, 1985.

Recommendation:

Fungicide-Herbicide Branch/Technical Support Section finds all studies, except Acute Dermal Toxicity, acceptable to support conditional registration of this product. In the Acute Dermal Toxicity Study at least five animals per sex per dose must be used.

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Acute Inhalation and Dermal Sensitization Studies were not submitted and these studies must be submitted or data to support waiver.

Based on data submitted signal word is CAUTION. However, upon submission of acceptable Acute Dermal, Acute Inhalation, and Dermal Sensitization this may change.

Label:

1. All Precautionary Statements should precede directions for use.
2. Additional precautionary labeling may be necessary upon submission of previously mentioned deficient studies.

Review:

1. Acute Oral Toxicity Study: Lilly Research Laboratories Study #R-O-50-80; March 7, 1980.

Procedure:

Five male and five female Fischer 344 rats received 5000 mg/kg of the test material orally. Observations made for 14 days post-treatment.

Results:

No mortalities reported. Leg weakness only toxic sign noted. LD₅₀ reported to be greater than 5000 mg/kg.

Study Classification:

Core Guideline Data.

Toxicity Category:

IV - CAUTION

2. Acute Dermal Toxicity and Dermal Irritation Study: Lilly Research Laboratories, Study #B-D-34-80; March 6, 1980.

Procedure:

Three male and three female rabbits received 2000 mg/kg of the test material under occlusive wrap for 24 hour exposure. One-half the treated animals had abraded skin. Observations made for 14 days posttreatment.

Results:

No mortalities or toxic signs reported. Slight to well-defined erythema at 24 and 72 hours and persisted through day 7. Irritation had cleared by day 8. Irritation Index reported to be 0.9.

Study Classification:

Core Supplementary Data for Acute Dermal Toxicity; at least five animals per sex per dose must be used. Toxicity category not determined.

Study Classification:

Core Guideline Data for Primary Dermal Irritation Study.

Toxicity Category:

III - CAUTION

3. Eye Irritation Study: Lilly Research Laboratories; Study #B-E-38-80; March 3, 1980.

Procedure:

Six New Zealand rabbits received 100 mg of the test material in one eye each. Observations were made at 1, 24, 48 and 72 hours, then at 7 days after treatment.

Results:

At hour, 5:6 conjunctive redness (5:6 = 1) and 2:6 chemosis (2:6 = 1). No other irritation reported. Redness and chemosis had cleared by day 1.

Study Classification:

Core Guideline Data

Toxicity Category:

IV - CAUTION.

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ELANCO

ID 5900

Herbicide

Balan®

2.5G

Net Weight **40 Pounds**

A selective preemergence herbicide
for the control of crabgrass and most
other annual weed grasses on lawns
and golf courses in established:

Bluegrass (perennial)
Ryegrass (perennial)
Fescue
Bahagrass

Bermudagrass
Centipedegrass
St. Augustinegrass
Zoysiagrass

Active Ingredient
1-(4-butyl-N-ethyl-4,4-difluoro-2,5-dinitro-*p*-toluidine) 2.5%
Inert Ingredients 97.5%
Contains 1 pound active ingredient per 40 pound bag.
Balan®—the registered trademark of Elanco Products Company
Keep Out of Reach of Children

CAUTION

See back of bag for additional precautionary statements.

EPA Reg. No. 1471-62

FN 1005

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Storage: Store in original container only.
In case of leak or spill, contain material
and dispose as waste.

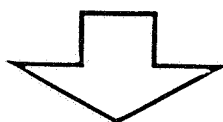
Directions for Use

Read All Directions Carefully
Before Applying

See Literature in Pocket of Bag for Complete Directions for Use.

Apply this product only as specified on this label or in literature
published by Elanco Products Company.

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



**Directions
Enclosed**

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed or absorbed through the skin. Avoid contact
with skin, eyes or clothing. In case of contact, flush with water.

Environmental Hazards

Do not contaminate any body of water by direct application,
cleaning of equipment or disposal of wastes.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.
Wastes resulting from the use of this product may be disposed
of on site or at an approved waste disposal facility.

Completely empty bag into application equipment. Then
dispose of empty bag in a sanitary landfill or by incineration,
or, if allowed by State and local authorities, by burning. If
burned, stay out of smoke.

Pesticide Disposal

Container Disposal

The manufacturer makes no warranties, express or implied, concerning this
product or its use, which extend beyond the description on the label. All
statements made concerning this product apply only when used as directed.

Elanco Products Company • A Division of Eli Lilly and Company
Indianapolis, IN 46285, U.S.A.

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