



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

304 / 415,837
18

APR 13 1992
OFFICE OF
PESTICIDES AND TOXIC
SUBSTANCES

Dr. Elizabeth M. Cozzi
Administrator, Regulatory Affairs
Abbott Laboratories, C.A.P.D.
1401 Sheridan Road
North Chicago, IL 60064-4000

Dear Dr. Cozzi:

Subject: Labeling Submitted with Your Letter Dated 3/26/92 for
Dipel 6AF Aqueous Flowable Biological Flowable
EPA Registration No. 275-59

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act is acceptable provided that you add the statement "Do not contaminate water when disposing of equipment washwaters." to the end of the pesticide disposal statements.

A copy of the stamped label is enclosed for your records. Submit five (5) copies of final printed labeling. Your release for shipment of the amended label constitutes acceptance of the above mentioned condition.

Sincerely,

Phil Hutton
Product Manager 18
Insecticide-Rodenticide Branch
Registration Division (H7505C)

Enclosure



**DIPEL 6AF
AQUEOUS FLOWABLE
BIOLOGICAL INSECTICIDE
NOT REGISTERED IN CALIFORNIA**

ACTIVE INGREDIENT: Bacillus thuringiensis, var. kurstaki,
10,750 International Units of Potency per mg
(48 Billion International Units per gallon) 2.15%

INERT INGREDIENTS 97.85%

TOTAL 100.00%

EPA Reg. No. 275-59

EPA Est. No. 33762-IA-1

CAUTION: KEEP OUT OF REACH OF CHILDREN

PRECAUTIONARY STATEMENTS

Avoid contact with skin, eyes or clothing. In case of contact immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

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

STORAGE

Keep containers tightly closed when not in use. Do not store at temperatures below 0°F or above 90°F. Roll or shake the drum before dispensing.

PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL

Triple rinse (or equivalent), puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

BEST AVAILABLE COPY

ACCEPTED
with COMMENTS
in EPA Letter Dated

APR 13 1992

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
275-59

DIRECTIONS FOR USE
FOREST, TREES AND SHRUBS

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

Do not apply this product through any type of irrigation system.

DIPEL 6AF is a highly selective insecticide for use against listed caterpillars (larvae) of lepidopterous insects. Close scouting and early attention to infestations is highly recommended. Larvae must eat deposits of DIPEL 6AF to be affected. Always follow these directions:

- Treat when larvae are young (early instars) before the crop damage is damaged.
- Larvae must be actively feeding on treated, exposed plant parts.
- Thorough spray coverage is needed to provide a uniform deposit of DIPEL 6AF at the site of larval feeding.
- Under heavy pest population pressure, use the higher label rates and/or consider a second application.
- If attempting to control a pest with a single spray, make the treatment when egg hatch is essentially complete, but before extensive crop damage occurs.
- An approved spreader-sticker may be added to undiluted and diluted tank mixes to improve weather-fastness of the spray deposits.

After eating a lethal dose of DIPEL 6AF, larvae stop feeding within the hour and will die within several days. Dying larvae move slowly, discolor, then shrivel, blacken and die.

DIPEL 6AF is completely water miscible and may be applied through conventional ground or aerial equipment with quantities of water sufficient to provide thorough coverage of infested plant parts. The volume of water needed per acre will depend on weather, spray equipment and plant canopy type. It is recommended that DIPEL 6AF be added to water and not in reverse order. Fill the mix tank with the appropriate quantity of water. Include rinse water from containers. Start the mechanical or hydraulic agitation to provide moderate circulation before adding DIPEL 6AF. Add the required volume of DIPEL 6AF to the mix tank or plane hopper and continue agitation. If a spreader-sticker is recommended, add the required amount to the water-Dipel tank mix last and agitate until uniformly suspended. Mild agitation is sufficient to maintain mixture suspension during loading and spraying. Do not mix more DIPEL 6AF that can be used in a 144 hour period.

CAUTION: Rinse and flush spray equipment thoroughly with water following each use.

DIPEL 6AF can also be applied undiluted from aircraft for control of Spruce Budworms, Hemlock Looper, Jack Pine Budworm, and Gypsy Moth. It is recommended that rotary or other atomizer be used to provide droplet Volume Median Diameters (VMD) of 20-80 microns for needle conifers and 50-150 microns for deciduous hardwoods. After prolonged storage, undiluted DIPEL 6AF should be recirculated once to redistribute prior to use. During loading and spraying, agitation of the undiluted product is unnecessary and should be avoided.

DIPEL 6AF may be used to protect trees and shrubs such as in:

- Forests
- Residential, municipal and shade tree areas
- Recreational areas such as campgrounds, golf courses, parks, parkways
- Ornamental, shade tree and forest nurseries
- Shelterbelts, rights of way and other easements

RESTRICTED

COPY

Page 4 of 5
 DIPEL 6AF FOR FOREST, TREES AND SHRUBS

| CROP | PEST | OZ./100 GAL./A.* | OZ./ACRE | BIU'S/A*** |
|--|-------------------------------|--------------------|------------------------|------------|
| | | (GROUND EQUIPMENT) | (AERIAL** APPLICATION) | |
| Forest, shade, Sugar Maple, Trees & Shrubs | Bagworm | 11 to 21 | 11 to 21 | 4 to 8 |
| | Blackheaded Budworm | 21 to 32 | 21 to 32 | 8 to 12 |
| | Browntail Moth | 21 to 54 | 21 to 54 | 8 to 20 |
| | California Oakworm | 11 to 21 | 11 to 21 | 4 to 8 |
| | Douglas Fir Tussock Moth | 11 to 43 | 11 to 43 | 8 to 16 |
| | Eastern Tent Caterpillar | 8 to 16 | 8 to 16 | 4 to 8 |
| | Elm Spanworm | 11 to 21 | 11 to 21 | 4 to 8 |
| | Fall Webworm | 11 to 21 | 11 to 21 | 4 to 8 |
| | Forest Tent Caterpillar | 16 to 32 | 16 to 32 | 8 to 16 |
| | Fruittree Leafroller | 11 to 21 | - | 4 to 8 |
| | Green Striped Maple Worm | 21 to 32 | 21 to 32 | 8 to 12 |
| | Gypsy Moth | 21 to 107 | 21 to 107 | 8 to 40 |
| | Jack Pine Budworm | 21 to 43 | 21 to 43 | 8 to 12 |
| | Mimosa Webworm | 11 to 21 | - | 4 to 8 |
| | Oak Leaf-tier | 21 to 32 | 21 to 32 | 8 to 12 |
| | Pine Butterfly | 21 to 32 | 21 to 32 | 8 to 12 |
| | Redhumped Caterpillar | 11 to 21 | 11 to 21 | 4 to 8 |
| | Saddleback Caterpillar | 11 to 21 | - | 4 to 8 |
| | Saddled Prominent Caterpillar | 11 to 21 | 11 to 21 | 4 to 8 |
| | Spring & Fall Cankervorm | 11 to 21 | 11 to 21 | 4 to 8 |
| | Spruce Budworms ¹ | 21 to 80 | 21 to 80 | 4 to 30 |
| | Western Tussock Moth | 11 to 21 | 11 to 21 | 4 to 8 |
| | Hemlock Looper | 32 to 43 | 32 to 43 | 12 to 16 |

* Water dilution rate for hydraulic sprayer may be varied depending on coverage. For mist blowers, mix the applicable amount (oz.) in up to 10 gallons of water.

BEST AVAILABLE COPY

6 of 6

** For diluted aerial application, use in up to 10 gallons of water depending on type and density of trees. For best results spray systems which deliver droplet size of 150 microns VMD or less should be used. Note: For Hemlock Looper use 1-2 applications, undiluted, beginning at peak first instar. When applying two applications, apply each application at a recommended rate of 32 ounces/A. First application is applied at peak first instar and second application is at second instar. For the high rate, i.e. 43 ounces/A, apply single application only at first instar.

*** Billion International Units per acre

¹ Use rates greater than 21 ounces in Northern states for heavy populations.

NOTICE TO USER

Seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning use of this product other than as indicated on the label. User assumes all risks of use, storage or handling not in strict accordance with accompanying directions.

1991 (C)
Chemical and Agricultural Products Division
Abbott Laboratories
North Chicago, Illinois 60064

88877

1000