



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

FEB 18 1994

MARVIN H. ALPHIN
ABBOTT LABORATORIES
CHEMICAL AGRICULTURAL PRODUCTS DIV
1401 SHERIDAN ROAD
NORTH CHICAGO, IL 60064

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 8/5/93 Response to PR Notice 93-7
EPA Reg. No. 275-59
DREXEL 6AF AQUEOUS FLOWABLE BIOLOGICAL INSECTICIDE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable
Printed with Soy/Candle ink on paper that
contains at least 50% recycled fiber

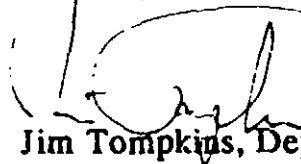
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division

Marvin H. Alphin
ABBOTT LABORATORIES
CHEMICAL AND AGRICULTURAL PRODUCTS DIV
1401 SHERIDAN RD
NORTH CHICAGO IL 60064

Comment for: EPA Reg Nr.275-59
~~DIPEL 6AF WORM KILLER~~

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

Delete the following statement from your proposed label; it is not required for formulations of this type: "Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category ___ on an EPA chemical resistance category selection chart."

One or more of the statements in the Non-Agricultural Use Requirements box is not found on your original label. Delete the crossed-out sentence(s). If you wish to retain the sentence(s) you must submit an amendment request to the Product Manager. If there are no remaining requirements in the box after you delete the sentence(s), delete the entire Non-Agricultural Use Requirements box. Please refer to the instructions starting on page 45 of Supplement Three to PR Notice 93-7 (Main Labeling Guidance).

Delete the crossed-out statements on your proposed label. They are redundant statements or phrases.

ACCEPTED
with COMMENTS
In EPA Letter Dated

Feb 18 1994

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

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

ACTIVE INGREDIENT: <i>Bacillus thuringiensis</i> subsp. <i>kurstaki</i> , Lepidopteran Active Toxin.....	2.15%
INERT INGREDIENTS	<u>97.85%</u>
TOTAL	100.00%

POTENCY: 10,750 International Units of Potency per mg
(48 Billion International Units per gallon)

Potency units should not be used to adjust use rates beyond those specified in the
Directions for Use Section.

KEEP OUT OF REACH OF CHILDREN

CAUTION

Chemical and Agricultural Products Division
Abbott Laboratories
North Chicago, IL 60064

EPA Registration No. 275-59
EPA Est. No. 33762-IA-1

Net Contents:

STATEMENT OF PRACTICAL TREATMENT

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

IF IN EYES: Flush eyes with plenty of water. Get medical attention if irritation persists.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS**

CAUTION

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.~~

Personal Protective Equipment

~~(Some materials that are chemical-resistant to this product are listed below.)~~ *delete*

~~Applicators and other handlers must wear:~~

- ~~• Long-sleeved shirt and long pants.~~
- ~~• Waterproof gloves.~~
- ~~• Shoes plus socks.~~

~~Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.~~

User Safety Recommendations

Users should:

~~Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.~~

ENVIRONMENTAL HAZARDS

Do not contaminate water when disposing of equipment washwaters.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

~~Do not enter treated areas without protective clothing until sprays have dried.~~

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. Do not contaminate water when disposing of equipment washwaters.

CONTAINER DISPOSAL

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

DIRECTIONS FOR USE

FOREST, TREES AND SHRUBS

delete - redundant

(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 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 trees are extensively 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 tree damage occurs.
- * An approved spreader-sticker may be added to diluted tank mixes to improve weather-fastness of the spray deposits. Do not add a sticker to undiluted product.

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 excluding the anticipated volume of 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. Then add rinsate from the original containers. Mild agitation is sufficient to maintain the mixture in 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 Budworm, Hemlock Looper, Jack Pine Budworm, and Gypsy Moth. It is recommended that rotary or other atomizers 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, and parkways
- Ornamental, shade, tree and forest nurseries
- Shelterbelts, rights of way, and other easements

DIPEL 6AF FOR FOREST, TREES AND SHRUBS

CROP	PEST	OZ./100 GAL/A.* (GROUND EQUIPMENT)	OZ./ACRE (AERIAL** APPLICATION)	BUIS/A* **
Forest, shade, Sugar Maple, Trees & Shrubs	Bagworm	11 to 43	11 to 43	4 to 16
	Blackheaded Budworm	21 to 43	21 to 43	8 to 16
	Browntail Moth	21 to 80	21 to 80	8 to 30
	California Oakworm	11 to 43	11 to 43	4 to 16
	Douglas Fir Tussock Moth	21 to 80	21 to 80	8 to 30
	Eastern Tent Caterpillar	11 to 43	11 to 43	4 to 16
	Elm Spanworm	11 to 43	11 to 43	4 to 16
	Fall Webworm	11 to 43	11 to 43	4 to 16
	Forest Tent Caterpillar	21 to 43	21 to 43	8 to 16
	Fruittree Leafroller	11 to 21	-	4 to 8
	Green Striped Maple Worm	21 to 43	21 to 43	8 to 16
	Gypsy Moth	21 to 107	21 to 107	8 to 40
	Jack Pine Budworm	21 to 43	21 to 43	8 to 16
	Mimosa Webworm	11 to 21	-	4 to 8
	Oak Leaf-tier	21 to 43	21 to 43	8 to 16
	Pine Butterfly	21 to 43	21 to 43	8 to 16
	Redhumped Caterpillar	11 to 43	11 to 43	4 to 16
	Saddleback Caterpillar	11 to 43	-	4 to 16
	Saddled Prominent Caterpillar	11 to 43	11 to 43	4 to 16
	Spring & Fall Cankerworm	11 to 43	11 to 43	4 to 16
	Spruce Budworms ¹	11 to 80	11 to 80	4 to 30
	Western Tussock Moth	11 to 43	11 to 43	4 to 16
	Hemlock Looper	32 to 64	32 to 64	12 to 24
	Eastern Pine Looper	32 to 64	32 to 64	12 to 24
	Leafrollers	21 to 43	21 to 32	8 to 16
	Buck Moth	21 to 107	21 to 107	8 to 40
	Oak Skeletonizer	21 to 43	21 to 43	8 to 16
	Tortrix	21 to 43	21 to 43	8 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.

**** 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 and Eastern Pine 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.

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