



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

August 12, 2008

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Doina Bujor, Regulatory Manager Valent BioSciences Corporation 870 Technology Way Libertyville, IL 60048

RE:

Product Name: Foray 48F

EPA Reg. No: 73049-35

Application for Label Notification Dated June 11, 2008 to Update Storage

and Disposal Statement per PR Notice 2007-4

Dear Ms. Bujor:

The Biopesticides and Pollution Prevention Division is in receipt of your application for Notification under PR Notice 98-10 dated above. A preliminary screen of this request has been conducted for its applicability under PRN 98-10 and it has been determined that the action(s) requested falls within the scope of PRN 98-10. Our records have been duly noted, and the label submitted with this application has been stamped "Notification, received and reviewed" and will be placed accordingly in our records.

Questions concerning this action should be directed to Ms. Diana Hudson at (703) 308-8713 or email at hudson.diana@epa.gov.

Sincerely,

Linda Hollis

Linda Hollis, Chief Biochemical Pesticides Branch Biopesticides and Pollution Prevention Division (7511P) 870 TECHNOLOGY WAY LIBERTYVILLE, IL 60048 - 800-323-9597

June 11, 2008

Sheryl Reilly
Biopesticides & Pollution Prevention Division
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501
703-308-8269

RE: Foray 48F (EPA Reg. No. 73049-35) Notification

Dear Ms. Reilly:

Valent BioSciences Corporation is submitting a notification for Foray 48F (EPA Reg. No. 73049-35) in accordance with PR Notice 2007-4 and PR. The changes made to the label are to the Storage and Disposal statement and include the container disposal language for non-refillable rigid container.

Present submission consists of:

- Application for Registration (EPA form 8570-1)
- One copy of the red-lined label
- One copy of the clean label.

Please contact me if you have any questions at 847-968-4724 or by e-mail at doina.bujor@valent.com.

Sincerely,

Doma Bujoi /

Regulatory Manager

Please reed instructions on reverse before completing form.	Form Approved, OMB No. 2070-0060
United States Environmental Protection Age Washington, DC 20460	Registration OPP Identifier Number
Application for	Pesticide - Section I
1. Company/Product Number 73049-35	2. EPA Product Manager Sheryl Reilly
4. Company/Product (Name) FORAY 48F	PM# X None Restricted
5. Name and Address of Applicant (Include ZIP Code) Valent BioSciences Corporation 870 Technology Way Libertyville, IL 60048	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No.
Check if this is a new address	Product Name
Sec	ction - II
Amendment - Explain below. Resubmission in response to Agency letter dated	Final printed labels in response to Agency letter dated NOTIFICATION "Me Too" Application. Other - Explain Delow. Reviewed By:
EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, Confidential Statement of Formula for this product. (see next pag	
Sec	tion - III
Yes Yes X No X No X X	Yes No
3. Location of Net Contents Information 4. Size(s) Retail Contents Label Container	iner 5. Location of Label Directions On Label On Labeling accompanying product
6. Manner in Which Label is Affixed to Product Lithograph Paper glued Stenciled	Other
Sec	tion - IV
1. Contact Point	vidual to be contacted, if necessary, to process this application.)
Name Doina Bujor Title Regula	tory Manager Telephone No. (Include Area Code) 847-968-4724

Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or

3. Title

5. Date

Jun 11, 2008

Regulatory Manager

both under applicable law.

2. Signature

4. Typed Name Doina Bujor 6. Date Application

(Stamped)

Received

Notification of Storage and Disposal Statement (PR Notice 2007-4) for Foray 48F, EPA Reg. No. 73049-35 (continuation from the previous page)

I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§152.46, 56.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and may be subject to enforcement action and penalties under section 12 and 14 of FIFRA.

Doina Bujor

Regulatory Manager

June 11, 2008

FORAY 48F BIOLOGICAL INSECTICIDE FLOWABLE CONCENTRATE

NOTIFICATION

Date Reviewed: 8-12-08

Reviewed By: D. Hudoon

Active Ingredient:	
Bacillus thuringiensis subsp. kurstaki strain ABTS-351 fe	ermentation solids,
spores, and insecticidal toxins	17.6%
Other Ingredients	82.4%
Total	•

KEEP OUT OF REACH OF CHILDREN CAUTION

Valent BioSciences Corporation 870 Technology Way, Suite 100 Libertyville, Il 60048

EPA Registration No. 73049-35_

Batch Code:

EPA Est. No. 33762-IA-1

Net Contents:

FIRST AID			
If in eyes	• Hold eye open and rinse slowly and gently with water for 15 - 20 minutes.		
	• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.		
	Call a poison control center or doctor for treatment advice.		
If on skin or clothing	Take off contaminated clothing.		
• Rinse skin immediately with plenty of water for 15 - 20 minutes.			
	• Call a poison control center or doctor for treatment advice.		
	HOT LINE NUMBER		
Have the product contain	per or label with you when calling a poison control center or doctor, or		

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-892-0099 for emergency medical treatment and/or transport emergency information. For all other information, contact 1-800-6-Valent.

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Foray 48F06-11-08 notif dmb Page 1 of 10

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below.

Applicators and other handlers must wear:

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

Mixers/loaders and applicators not in enclosed cabs or aircraft must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

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 products or using the toilet
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial agricultural uses, do not apply directly to water, or to where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

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Foray 48F06-11-08,notif,dmb Page 2 of 10 This product must not be applied aerially within ¼ mile of any habitats of endangered species or threatened lepidoptera. No manual application can be made within 300 feet of any threatened or endangered lepidoptera.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labelling. 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 labelling 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 4 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 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.

Keep unprotected persons out of the treated areas until sprays have dried.

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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: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after flow begins to drip. Repeat this procedure two more times. Once cleaned, offer container for recycling, if available. If recycling is not available puncture and dispose of container in a sanitary landfill, or by other procedures approved by state and local authorities.

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

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DIRECTIONS FOR USE FOREST, TREES AND SHRUBS

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

Foray 48F is an 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 Foray 48F to be affected. Always follow these directions:

- Treat when larvae are young (early instars) before the trees are damaged.
- Larvae must be actively feeding on treated, exposed plant parts.
- Thorough spray coverage is needed to provide a uniform deposit of Foray 48F 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 tree damage occurs.

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Foray 48F<u>Q6-11-08.notif.dmb</u> Page 4 of 10 • 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 Foray 48F, larvae stop feeding within the hour and will die within several days. Dying larvae move slowly, discolor, then shrivel, blacken and die.

Foray 48F 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. Foray 48F can be mixed in any ratio with water. Mild agitation is sufficient to maintain the mixture in suspension during mixing, loading and spraying. Do not mix more Foray 48F that can be used in a 144 hour period.

Foray 48F 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 60-100 microns for needle conifers and 50-150 microns for deciduous hardwoods. After prolonged storage, undiluted Foray 48F should be recirculated once to redistribute prior to use. During loading and spraying, agitation of the undiluted product is unnecessary and should be avoided.

Foray 48F 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
Production sugar maples

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the treatment coordinator are responsible for considering all of these factors when making decisions.

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Foray 48F FOR FOREST, TREES AND SHRUBS

Crop	Pest	oz/100 Gal/A*	oz/A (Aerial**
r	1 430	(Ground	Application
1		Equipment)	Application
Forest, Shade, Sugar	Bagworm	21 to 43	21 to 43
Maple, Seed	Blackheaded Budworm	21 to 64	21 to 64
Orchards,	Browntail Moth	21 to 80	21 to 80
1 Trees & Shrubs	California Oakworm	11 to 43	11 to 43
Trees & Sinus	Douglas Fir	21 to 80	21 to 80
	Tussock Moth	2. 10 00	27 10 00
	Eastern Tent Caterpillar	43 to 64	43 to 64
	Elm Spanworm	21 to 64	21 to 64
	Fall Webworm	21 to 64	21 to 64
Î	Forest Tent Caterpillar	21 to 64	21 to 64
	Fruittree Leafroller	11 to 21	
	Green Striped Maple	21 to 43	21 to 43
	Worm		
	Gypsy Moth	21 to 128	21 to 128
	Asian Gypsy Moth	21 to 128	21 to 128
1	Jack Pine Budworm	21 to 64	21 to 64
	Mimosa Webworm	11 to 21	_
	Oak Leaftier	21 to 64	21 to 64
	Pine Butterfly	21 to 43	21 to 43
	Redhumped Caterpillar	11 to 43	11 to 43
	Saddleback Caterpillar	11 to 43	_
	Saddled Prominent	11 to 43	11 to 43
[Caterpillar	[[[
	Spring & Fall	21 to 64	21 to 64
	Cankerworm		
	Eastern Spruce	21 to 128	21 to 128
	Budworm ¹		[
	Western Spruce	21 to 128	21 to 128
	Budworm ¹	ł	}
	Western Tussock Moth	21 to 43	21 to 43
	Eastern Hemlock	43 to 64	43 to 64
	Looper		
	Western Hemlock	43 to 64	43 to 64
	Looper		
	Eastern Pine Looper	43 to 64	43 to 64
	Leafrollers	21 to 43	21 to 43
	Buck Moth	43 to 107	43 to 107
	Oak Skeletonizer	21 to 43	21 to 43
	Tortrix	21 to 43	21 to 43
	Coneworm	64 to 96	64 to 96

Note: For Hemlock Looper, Eastern Pine Looper, and Coneworms, use 1 to 2 applications, diluted or undiluted, beginning at peak first instar.

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^{*}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, beginning at peak first instar. When applying two applications, first application is at peak first instar and second application is at second instar.

NON-AGRICULTURAL USE SITE DIRECTIONS FOR USE

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior landscapes, ornamental gardens or parks, or on golf courses or lawns or grounds.

Not for use on trees being grown for sale or other commercial use, or for commercial seed production, or for the production of timber or wood products, or for research purposes except for wide-area public pest control programs sponsored by government entities, such as mosquito abatement, gypsy moth control, and Mediterranean fruit fly eradication.

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

Do not apply this product to the non-agricultural use sites through any type of irrigation system.

Do not apply when weather conditions favor drift from treated areas.

Foray 48F is an 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 Foray 48F to be affected. Always follow these directions:

Treat when larvae are young (early instars) before the trees are damaged.

Larvae must be actively feeding on treated, exposed plant parts.

Thorough spray coverage is needed to provide a uniform deposit of Foray 48F 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 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.

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Foray 48F<u>06-11-08.notif.dmb</u> Page 7 of 10

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

After eating a lethal dose of Foray 48F, larvae stop feeding within the hour and will die within several days. Dying larvae move slowly, discolor, then shrivel, blacken and die.

Foray 48F 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. Foray 48F can be mixed in any ratio with water. Mild agitation is sufficient to maintain the mixture in suspension during mixing, loading and spraying. Do not mix more Foray 48F that can be used in a 144 hour period.

Foray 48F 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 60-100 microns for needle conifers and 50-150 microns for deciduous hardwoods. After prolonged storage, undiluted Foray 48F should be recirculated once to redistribute prior to use. During loading and spraying, agitation of the undiluted product is unnecessary and should be avoided.

Foray 48F 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 and shade trees
Shelterbelts, rights of way, and other easements

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Foray 48F FOR FOREST, TREES AND SHRUBS

Crop	Pest	oz/100 Gal/A* (Ground Equipment)	oz/A (Aerial** Application
Forest Trees and	Bagworm	21 to 43	21 to 43 .
Shrubs	Blackheaded Budworm	21 to 64	21 to 64
	Browntail Moth	21 to 80	21 to 80
	California Oakworm	11 to 43	11 to 43
	Douglas Fir	21 to 80	21 to 80
	Tussock Moth		I
	Eastern Tent Caterpillar	43 to 64	43 to 64
	Elm Spanworm	21 to 64	21 to 64
	Fall Webworm	21 to 64	21 to 64
	Forest Tent Caterpillar	21 to 64	21 to 64
	Fruittree Leafroller	11 to 21	1 -
	Green Striped Maple	21 to 43	21 to 43
	Worm		
	Gypsy Moth	21 to 128	21 to 128
	Asian Gypsy Moth	21 to 128	21 to 128
	Jack Pine Budworm	21 to 64	21 to 64
	Mimosa Webworm	11 to 21	7
	Oak Leaftier	21 to 64	21 to 64
	Pine Butterfly	21 to 43	21 to 43
	Redhumped Caterpillar	11 to 43	11 to 43
	Saddleback Caterpillar	11 to 43	
·	Saddled Prominent Caterpillar	11 to 43	11 to 43
·	Spring & Fall Cankerworm	21 to 64	21 to 64
	Eastern Spruce Budworm ¹	21 to 128	21 to 128
	Western Spruce Budworm ¹	21 to 128	21 to 128
	Western Tussock Moth	21 to 43	21 to 43
	Eastern Hemlock Looper	43 to 64	43 to 64
	Western Hemlock Looper	43 to 64	43 to 64
	Eastern Pine Looper	43 to 64	43 to 64
	Leafrollers ,	21 to 43	21 to 43
	Buck Moth	43 to 107	43 to 107
I	Oak Skeletonizer	21 to 43	21 to 43
	Tortrix-	21 to 43	21 to 43
ţ	Coneworm	64 to 96	64 to 96

Note: For Hemlock Looper, Eastern Pine Looper, and Coneworms, use 1 to 2 applications, diluted or undiluted, beginning at peak first instar.

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Foray 48F 06-11-08.notif.dmb Page 9 of 10

^{*}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, beginning at peak first instar. When applying two applications, first application is at peak first instar and second application is at second instar.

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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Foray 48F 06-11-08.notif.dmb Page 10 of 10

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

FORAY 48F BIOLOGICAL INSECTICIDE FLOWABLE CONCENTRATE

NOTIFICATION

Date Reviewed: 8-12-08

Reviewed By: D. Hudson

KEEP OUT OF REACH OF CHILDREN CAUTION

Valent BioSciences Corporation 870 Technology Way, Suite 100 Libertyville, II 60048

EPA Registration No. 73049-35 EPA Est. No. 33762-IA-1 Batch Code:

Net Contents:

FIRST AID			
If in eyes	• Hold eye open and rinse slowly and gently with water for 15 - 20 minutes.		
	• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.		
•	• Call a poison control center or doctor for treatment advice.		
If on skin or clothing	Take off contaminated clothing.		
	• Rinse skin immediately with plenty of water for 15 - 20 minutes.		
	• Call a poison control center or doctor for treatment advice.		
	HOT LINE NUMBER		
-	ner or label with you when calling a poison control center or doctor, or ou may also contact 1-800-892-0099 for emergency medical treatment		

and/or transport emergency information. For all other information, contact 1-800-6-Valent.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below.

Applicators and other handlers must wear:

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

Mixers/loaders and applicators not in enclosed cabs or aircraft must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

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 products or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial agricultural uses, do not apply directly to water, or to where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

This product must not be applied aerially within ¼ mile of any habitats of endangered species or threatened lepidoptera. No manual application can be made within 300 feet of any threatened or endangered lepidoptera.

DIRECTIONS FOR USE

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

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Use this product only in accordance with its labelling 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 4 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 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.

Keep unprotected persons out of the treated areas 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.

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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: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after flow begins to drip. Repeat this procedure two more times. Once cleaned, offer container for recycling, if available. If recycling is not available puncture and dispose of container in a sanitary landfill, or by other procedures approved by state and local authorities.

DIRECTIONS FOR USE FOREST, TREES AND SHRUBS

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

Foray 48F is an 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 Foray 48F to be affected. Always follow these directions:

- Treat when larvae are young (early instars) before the trees are damaged.
- Larvae must be actively feeding on treated, exposed plant parts.
- Thorough spray coverage is needed to provide a uniform deposit of Foray 48F 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 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 Foray 48F, larvae stop feeding within the hour and will die within several days. Dying larvae move slowly, discolor, then shrivel, blacken and die.

Foray 48F 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. Foray 48F can be mixed in any ratio with water. Mild agitation is sufficient to maintain the mixture in suspension during mixing, loading and spraying. Do not mix more Foray 48F that can be used in a 144 hour period.

Foray 48F 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 60-100 microns for needle conifers and 50-150 microns for deciduous hardwoods. After prolonged storage, undiluted Foray 48F should be recirculated once to redistribute prior to use. During loading and spraying, agitation of the undiluted product is unnecessary and should be avoided.

Foray 48F 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
Production sugar maples

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the treatment coordinator are responsible for considering all of these factors when making decisions.

Foray 48F FOR FOREST, TREES AND SHRUBS

Crop	Pest	oz/100 Gal/A*	oz/A (Aerial**
•		(Ground	Application
•	·	Equipment)	**
Forest, Shade, Sugar	Bagworm	21 to 43	21 to 43
Maple, Seed	Blackheaded Budworm	21 to 64	21 to 64
Orchards,	Browntail Moth	21 to 80	21 to 80
1 Trees & Shrubs	California Oakworm	11 to 43	11 to 43
Tirees & Bin dos	Douglas Fir	21 to 80	21 to 80
	Tussock Moth		
	Eastern Tent Caterpillar	43 to 64	43 to 64
	Elm Spanworm	21 to 64	21 to 64
	Fall Webworm	21 to 64	21 to 64
	Forest Tent Caterpillar	21 to 64	21 to 64
	Fruittree Leafroller	11 to 21	_
	Green Striped Maple	21 to 43	21 to 43
,	Worm		
	Gypsy Moth	21 to 128	21 to 128
	Asian Gypsy Moth	21 to 128	21 to 128
	Jack Pine Budworm	21 to 64	21 to 64
	Mimosa Webworm	11 to 21	
	Oak Leaftier	21 to 64	21 to 64
	Pine Butterfly	21 to 43	21 to 43
	Redhumped Caterpillar	11 to 43	11 to 43
	Saddleback Caterpillar	11 to 43	-
	Saddled Prominent	11 to 43	11 to 43
	Caterpillar		
	Spring & Fall	21 to 64	21 to 64
	Cankerworm		
	Eastern Spruce	21 to 128	21 to 128
	Budworm ¹	Ì	
•	Western Spruce	21 to 128	21 to 128
	Budworm ¹		·
	Western Tussock Moth	21 to 43	21 to 43
	Eastern Hemlock	43 to 64	43 to 64
	Looper	4	
	Western Hemlock	43 to 64	43 to 64
	Looper	1	
	Eastern Pine Looper	43 to 64	43 to 64
	Leafrollers	21 to 43	21 to 43
	Buck Moth	43 to 107	43 to 107
	Oak Skeletonizer	21 to 43	21 to 43
	Tortrix	21 to 43	21 to 43
	Coneworm	64 to 96	64 to 96

Note: For Hemlock Looper, Eastern Pine Looper, and Coneworms, use 1 to 2 applications, diluted or undiluted, beginning at peak first instar.

^{*}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, beginning at peak first instar. When applying two applications, first application is at peak first instar and second application is at second instar.

NON-AGRICULTURAL USE SITE DIRECTIONS FOR USE

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior landscapes, ornamental gardens or parks, or on golf courses or lawns or grounds.

Not for use on trees being grown for sale or other commercial use, or for commercial seed production, or for the production of timber or wood products, or for research purposes except for wide-area public pest control programs sponsored by government entities, such as mosquito abatement, gypsy moth control, and Mediterranean fruit fly eradication.

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

Do not apply this product to the non-agricultural use sites through any type of irrigation system.

Do not apply when weather conditions favor drift from treated areas.

Foray 48F is an 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 Foray 48F to be affected. Always follow these directions:

Treat when larvae are young (early instars) before the trees are damaged.

Larvae must be actively feeding on treated, exposed plant parts.

Thorough spray coverage is needed to provide a uniform deposit of Foray 48F 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 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.

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

After eating a lethal dose of Foray 48F, larvae stop feeding within the hour and will die within several days. Dying larvae move slowly, discolor, then shrivel, blacken and die.

Foray 48F 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. Foray 48F can be mixed in any ratio with water. Mild agitation is sufficient to maintain the mixture in suspension during mixing, loading and spraying. Do not mix more Foray 48F that can be used in a 144 hour period.

Foray 48F 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 60-100 microns for needle conifers and 50-150 microns for deciduous hardwoods. After prolonged storage, undiluted Foray 48F should be recirculated once to redistribute prior to use. During loading and spraying, agitation of the undiluted product is unnecessary and should be avoided.

Foray 48F 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 and shade trees
Shelterbelts, rights of way, and other easements

Foray 48F FOR FOREST, TREES AND SHRUBS

Crop	Pest	oz/100 Gal/A* (Ground Equipment)	oz/A (Aerial** Application
Forest Trees and	Bagworm	21 to 43	21 to 43
Shrubs	Blackheaded Budworm	21 to 64	21 to 64
	Browntail Moth	21 to 80	21 to 80
	California Oakworm	11 to 43	11 to 43
	Douglas Fir	21 to 80	21 to 80
	Tussock Moth		
	Eastern Tent Caterpillar	43 to 64	43 to 64
	Elm Spanworm	21 to 64	21 to 64
	Fall Webworm	21 to 64	21 to 64
	Forest Tent Caterpillar	21 to 64	21 to 64
·	Fruittree Leafroller	11 to 21	
	Green Striped Maple	21 to 43	21 to 43
	Worm		
	Gypsy Moth	21 to 128	21 to 128
	Asian Gypsy Moth	21 to 128	21 to 128
	Jack Pine Budworm	21 to 64	21 to 64
	Mimosa Webworm	11 to 21	-
	Oak Leaftier	21 to 64	21 to 64
	Pine Butterfly	21 to 43	21 to 43
	Redhumped Caterpillar	11 to 43	11 to 43
	Saddleback Caterpillar	11 to 43	
	Saddled Prominent Caterpillar	11 to 43	11 to 43
	Spring & Fall Cankerworm	21 to 64	21 to 64
	Eastern Spruce Budworm ¹	21 to 128	21 to 128
	Western Spruce Budworm ¹	21 to 128	21 to 128
	Western Tussock Moth	21 to 43	21 to 43
	Eastern Hemlock	43 to 64	43 to 64
	Looper		
	Western Hemlock Looper	43 to 64 .	43 to 64
	Eastern Pine Looper	43 to 64	43 to 64
	Leafrollers	21 to 43	21 to 43
	Buck Moth	43 to 107	43 to 107
	Oak Skeletonizer	21 to 43	21 to 43
	Tortrix	21 to 43 21 to 43	21 to 43
	Coneworm	64 to 96	64 to 96

Note: For Hemlock Looper, Eastern Pine Looper, and Coneworms, use 1 to 2 applications, diluted or undiluted, beginning at peak first instar.

^{*}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, beginning at peak first instar. When applying two applications, first application is at peak first instar and second application is at second instar.

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