

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

January 11, 2021

Timothy M. Formella Senior Product Registration Manager FMC Corporation 2929 Walnut Street Philadelphia, PA 19104

Subject: PRIA Label Amendment – Revise directions for use on plant in furrow application rates

Product Name: F4120-2

EPA Registration Number: 279-3632

Application Date: 02/17/2020 Decision Number: 560623

Dear Mr. Formella

The application referred to above, submitted under the Federal Insecticide, Fungicide and Rodenticide Act, as amended is acceptable under FIFRA sec 3 (c)(5). You must submit and/or cite all data required for registration/registration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Jamey Shuler at (703) 347-8036 or by email at Shuler.Jamey@epa.gov.

Sincerely,

Jacquelyn Herrick, Product Manager 03 Invertebrate & Vertebrate Branch 1 Registration Division (7505P) Office of Pesticide Programs

# RESTRICTED USE PESTICIDE

Due to toxicity to fish and aquatic organisms. For retail sale to and use only by certified applicators, or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

Bifenthrin	GROUP	3A	INSECTICIDE
B. amyloliquefaciens	GROUP	44	FUNGICIDE

F4120-2

[ABN: Ethos 3D Insecticide/Fungicide]

Liquid insecticide/fungicide for use in a 3RIVE 3D system only.

EPA Reg. No. 279-3632 EPA Est. No. \_\_\_\_\_

Active Ingredient:	By Wt.
Bifenthrin *:	15.67%
Bacillus amyloliquefaciens strain D747 **:	. 5.50%
Other Ingredients:	. 78.83%
-	100 00%

<sup>\*</sup>Cis isomers 97% minimum, trans isomers 3% maximum

# ACCEPTED

01/11/2021

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

279-3632

# WARNING AVISO

This label must be in the possession of the user at the time of application. Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See other panels for additional precautionary information.

	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 Swallowed:	<b>Swallowed:</b> -Call a poison control center or doctor immediately for treatment advice.			
	-Have person sip a glass of water if able to swallow.			
	-Do not induce vomiting unless told to do so by a poison control center or doctor.			
	-Do not give anything by mouth to an unconscious person.			
If on Skin:	-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.			
	HOTLINE NUMBER			
Have the product conta	ainer or label with you when calling a poison control center or doctor, or going for treatment. You			
may also contact 1-800-331-3148 for emergency medical treatment information.				
	NOTE TO PHYSICIAN			
This product contains a pyrethroid. If large amounts have been ingested, the stomach and intestines should be				
evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so				
should be avoided.				

NI-4	Contents		
NOT	CONTANT	2.	

Sold By:

FMC Corporation 2929 Walnut Street Philadelphia, PA 19104

<sup>\*\*</sup> Contains a minimum of 1.0 x 10<sup>10</sup> colony-forming units (cfu) per milliliter of product This product contains 1.4 lbs. bifenthrin per gallon.

# PRECAUTIONARY STATEMENTS

# Hazards to Humans and Domestic Animals WARNING

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful if swallowed or if absorbed through skin. Avoid contact with skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

#### Personal Protective Equipment (PPE):

#### Mixers, Loaders and Applicators must wear:

- Protective eyewear
- · Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any R or P filter; OR a NIOSH-approved elastomeric particulate respirator with any R or P filter; OR a NIOSH-approved powered air-purifying respirator with a HE filter.

#### **User Safety Requirements**

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

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

#### **Engineering Controls**

When handlers use closed systems or enclosed cabs in a manner that meet the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### **User Safety Recommendations**

#### **Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, 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**

This pesticide is extremely toxic to fish and aquatic invertebrates. Use with care when applying in areas adjacent to any body of water. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not make applications when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. The use of bifenthrin is prohibited in areas that may result in exposure of endangered species to bifenthrin. Prior to use in a particular county contact the local extension service for procedures and precautions to use to protect endangered species.

# **DIRECTIONS FOR USE**

#### **Restricted Use Pesticide**

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

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. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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

F4120-2 must be applied in-furrow with the seed or transplant. Do not make foliar applications of this product.

Do not apply this product by air.

**3RIVE 3D System Information:** F4120-2 must be applied with a 3RIVE 3D system. Refer to the 3RIVE 3D equipment and user manual for information on system operation and calibration.

# 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 interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

Exception: If the product is soil-injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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: Protective eyewear, Coveralls, Waterproof gloves, and Shoes plus socks.

# **Resistance Management**

For resistance management, F4120-2 contains a Group 3A insecticide. Any insect population may contain individuals naturally resistant to F4120-2 and other Group 3A insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance, take the following steps:

- Rotate the use of F4120-2 or other Group 3A insecticides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted.
  Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
  - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they
    are individually registered for use against the target species.
  - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
  - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pests.
  - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still
    provide pest management benefits.
  - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticidal activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.

To reduce the potential for pesticide resistance, use this product in a rotation program with other classes of chemistry and modes of action. Always apply this product at the recommended rates and in accordance with the use directions.

# **Application and Mixing Instructions**

F4120-2 is an insecticide/fungicide for in-furrow at plant applications. This product contains 1.4 pounds per gallon of the insecticide bifenthrin together with the biopesticide *Bacillus amyloliquefaciens* strain D747 at a minimum of 1x 10<sup>10</sup> colony-forming units (cfu) per milliliter. *Bacillus amyloliquefaciens* strain D747 is a naturally occurring beneficial bacterium used for early season suppression of fungal plant diseases. The rate of application is variable according to pest pressure. Use lower rates under light to moderate pest infestations, and higher rates under heavier pest pressure. In arid climates application rates are generally higher. F4120-2 must be used in equipment designed specifically for application of this type of formulation.

#### **VEGETATIVE FILTER STRIPS**

Construct and maintain a vegetative filter strip, according to the width specified below, of grass or other permanent vegetation between the field edge and nearby down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; streams; marshes; or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing bifenthrin onto fields where a maintained vegetative filter strip of at least 25 feet exists between the field edge and where a down gradient aquatic habitat exists. This minimum required width of 25 feet may be reduced or removed under the following conditions:

- For Western irrigated agriculture, a maintained vegetative filter strip of at least 10 feet wide is required. Western irrigated agriculture is defined as irrigated farmland in the following states:
   WA, OR, CA, ID, NV, UT, AZ, MT, WY, CO, NM, and TX (west of I-35).
  - o For Western irrigated agriculture, if a sediment control basin is present, a vegetative filter strip is not required.
- In all other areas, a vegetative filter strip with a minimum width of 25 feet is required, unless the following conditions are met. The vegetative filter strip requirement may be reduced from 25 feet to 15 feet if at least one of the following applies:
  - The area of application is considered prime farmland (as defined in 7 CFR § 657.5)
  - Conservation tillage is being implemented on the area of application. Conservation tillage is defined as any system
    that leaves at least 30% of the soil surface covered by residue after planting. Conservation tillage practices can
    include mulch-till, no-till, or strip-till.
  - o A functional terrace system is maintained on the area of application.
  - o Water and sediment control basins for the area of application are functional and maintained.
  - The area of application is less than or equal to 10 acres.

For further guidance on vegetated filter strips, refer to the following publication for information on constructing and maintaining effective buffers: Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. <a href="https://www.regulations.gov/document?D=EPA-HQ-OPP-2008-0331-0175">https://www.regulations.gov/document?D=EPA-HQ-OPP-2008-0331-0175</a>

F4120-2 must be applied in-furrow with the seed or transplant.

Do not mix with any other product unless that product has been specifically designed to work with the F4120-2 formulation.

Use rates in the individual crop sections are listed as Fluid oz/1000 Linear feet based on 30-inch row spacings. For conversion to rates applicable to different row spacings, see the table below.

The maximum application rate per acre per season (lb ai/A/season) as listed under the use directions for each crop must not be exceeded.

F4120-2 Insecticide Required Per Acre for Various Row Spacings						
Row Spacing	36"	30"	20"	15"	Twin Row 30" Centers	7.5"
Linear row ft/A	14,520 ft	17,424 ft	26,136 ft	34,848 ft	34,848 ft	69,696 ft
Conversion						
0.21 Fluid oz/1000 Lin ft =	3.1 fl oz/A	3.7 fl oz/A	5.5 fl oz/A	7.4 fl oz/A	7.4 fl oz/A	15.0 fl oz/A
0.26 Fluid oz/1000 Lin ft =	3.8 fl oz/A	4.6 fl oz/A	6.9 fl oz/A	9.2 fl oz/A	9.2 fl oz/A	18.3 fl oz/A
0.32 Fluid oz/1000 Lin ft =	4.6 fl oz/A	5.5 fl oz/A	8.2 fl oz/A	11.1 fl oz/A	11.1 fl oz/A	
0.42 Fluid oz/1000 Lin ft =	6.1 fl oz/A	7.3 fl oz/A	11.0 fl oz/A	14.6 fl oz/A	14.6 fl oz/A	1
0.52 Fluid oz/1000 Lin ft =	7.6 fl oz/A	9.1 fl oz/A	13.7 fl oz/A	18.3 fl oz/A	18.3 fl oz/A	1
0.78 Fluid oz/1000 Lin ft =	11.4 fl oz/A	13.7 fl oz/A		•	•	-
0.83 Fluid oz/1000 Lin ft =	12.1 fl oz/A	14.6 fl oz/A				
1.05 Fluid oz/1000 Lin ft =	15.2 fl.oz/A	18 3 fl oz/A	7			

# **Crop Rotation Restrictions**

22.8 fl oz/A

1.57 Fluid oz/1000 Lin ft =

Crops for which bifenthrin tolerances exist may be rotated at any time. All other crops may be rotated 30 days following the final application of bifenthrin.

27.4 fl oz/A

# Maximum Allowable F4120-2 Use per Acre per Year

Refer to the individual crop sections for maximum allowable F4120-2 usage per acre per year. The maximum allowable use of the bifenthrin active ingredient must include all registered use patterns including at-plant, soil applied and foliar applications of all bifenthrin containing products for a 12-month period. The 12-month period is to begin upon the initial application to the acre.

# **BUFFER ZONES TO WATER BODIES**

## **Ground Application**

Do not apply within 25 feet of aquatic habitats (such as, but not limited to lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds).

## **CROP USES**

#### **CORN**

Field Corn, Popcorn, Field Corn Grown for Seed, Sweet Corn, Sweet Corn Grown for Seed

#### At-Plant

	USE RATES		
PEST/DISEASE	Fluid oz/1000	Pound	DIRECTIONS
	Linear ft. 1	bifenthrin/acre	
Corn rootworm larvae (Northern,	0.52 - 1.05	0.1 - 0.2	Apply in-furrow with the seed. F4120-2 must
Southern and Western)			be applied with a 3RIVE 3D system.
Asiatic garden beetle			
Wireworm,	0.21 – 1.05	0.04 - 0.2	Heavy Corn Rootworm Pressure
Grape Colaspis,			Management Program: In areas where large
Grubs,			corn rootworm populations are present, a
Seedcorn maggot,			multi-approach system may be needed for
Root aphids,			optimal pest management. However, if the
Army cutworm,			population level is not known and if a corn
Cutworm species,			rootworm adult scouting program along with
True armyworm,			threshold adult control measures were not
Armyworm species,			completed during the previous growing
Stalkborer,			season, then utilize a maximum dosage seed
Seed corn beetle,			treatment program or genetically modified
Sugarcane beetle			corn rootworm resistant hybrid in addition to
			F4120-2.
<sup>2</sup> Suppression of "Damping off,"			
seedling blights, and root or			
crown diseases caused by			<sup>1</sup> See rate table on page [ "4"] for amount of
Pythium, Rhizoctonia, Fusarium,			F4120-2 required per acre for various crop
or <i>Phytophthora</i>			row spacings.

<sup>&</sup>lt;sup>2</sup> For improved performance and better disease management, use the highest application rate; however, under moderate to severe disease pressure, or when environmental conditions are conducive to rapid disease development, mix F4120-2 with other fungicides labeled for this use with the 3RIVE 3D System.

#### **Corn Restrictions:**

- Do not apply more than 0.2 pound bifenthrin active ingredient per acre per season as an at-plant application.
- For field corn: Do not apply more than 0.3 pound bifenthrin active ingredient per acre total per season, including PPI, atplant, PRE, and foliar applications of other bifenthrin products.
- For sweet corn: Do not apply more than 0.2 pound bifenthrin active ingredient per acre total per season, including PPI, at-plant, PRE, and foliar applications of other bifenthrin products.

# PEAS and BEANS, dried shelled, except soybean - Crop Subgroup 6C

Dried cultivars of Bean (*Lupinus* species): grain lupin, sweet lupin, white lupin, and white sweet lupin; Bean (*Phaseolus* species): field bean, kidney bean, lima bean (dry), navy bean, pinto bean, tepary bean; Bean (*Vigna* species): adzuki bean, blackeyed pea, catjang, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean; broad bean (dry); chickpea; guar; lablab bean (hyacinth bean); lentil; Pea (*Pisum* species): field pea; pigeon pea

#### At-Plant

	USE R	ATES		
PEST/DISEASE	Fluid oz/1000	Pound	DIRECTIONS	
	Linear ft. 1	bifenthrin/acre		
Grape colaspis,	0.21 - 1.05	0.04 - 0.2	Apply in-furrow with the seed.	
Wireworm,			F4120-2 must be applied with a	
Grubs,			3RIVE 3D system.	
Root maggot,				
Army cutworm,			<sup>1</sup> See rate table on page [ "4"]	
Cutworm species,			for amount of F4120-2 required	
True armyworm,			per acre for various crop row	
Armyworm species,			spacings.	
<sup>2</sup> Suppression of "Damping off,"				
seedling blights, and root or				
crown diseases caused by				
Pythium, Rhizoctonia, Fusarium,				
or <i>Phytophthora</i>				

<sup>&</sup>lt;sup>2</sup> For improved performance and better disease management, use the highest application rate; however, under moderate to severe disease pressure, or when environmental conditions are conducive to rapid disease development, mix F4120-2 with other fungicides labeled for this use with the 3RIVE 3D System.

#### **Dried Beans and Peas Restrictions:**

- Do not apply more than 0.2 pound bifenthrin active ingredient per acre per season as an at-plant application.
- For dried peas: Do not apply more than 0.2 pound bifenthrin active ingredient per acre per season, including PPI, at-plant, PRE, and foliar applications of other bifenthrin products.
- For dried beans: Do not apply more than 0.3 pound bifenthrin active ingredient per acre per season, including PPI, atplant, PRE, and foliar applications of other bifenthrin products.

## **SOYBEANS** \*\*

#### At Plant

	USE RATES		
PEST/DISEASE	Fluid oz/1000	Pound	DIRECTIONS
	Linear ft. 1	bifenthrin/acre	
Wireworm,	0.21 - 1.05	0.04 - 0.2	Apply in-furrow with the seed.
Grape colaspis,			F4120-2 must be applied with a
Grubs,			3RIVE 3D system.
Root maggot,			
Seedcorn maggot,			<sup>1</sup> See rate table on page [ "4"] for
Army cutworm,			amount of F4120-2 required per
Cutworm species,			acre for various crop row spacings.
True armyworm,			
Armyworm species,			
Seed corn beetle,			
<sup>2</sup> Suppression of "Damping off,"			
seedling blights, and root or			
crown diseases caused by			
Pythium, Rhizoctonia, Fusarium,			
or <i>Phytophthora</i>			

<sup>&</sup>lt;sup>2</sup> For improved performance and better disease management, use the highest application rate; however, under moderate to severe disease pressure, or when environmental conditions are conducive to rapid disease development, mix F4120-2 with other fungicides labeled for this use with the 3RIVE 3D System.

#### Soybean Restrictions:

- Do not apply more than 0.2 pound bifenthrin active ingredient per acre per season as an at-plant application.
- Do not apply more than 0.2 pound bifenthrin active ingredient per acre per season including PPI, at-plant, PRE, and foliar applications of other bifenthrin products.

# \*\* Not for use on Soybeans in California

## PEAS AND BEANS, succulent shelled - Crop Subgroups 6A and 6B

Pea (*Pisum* species): dwarf pea, edible-pod pea, English pea, garden pea, green pea, snow pea, sugar snap pea; pigeon pea; Bean (*Phaseolus* species): broad bean (succulent), lima bean (green), runner bean, snap bean, wax bean; Bean (*Vigna* species): asparagus bean, blackeyed pea, Chinese longbean, cowpea, moth bean, southern pea, yardlong bean; jackbean; soybean (immature seed); sword bean

#### At-Plant

	USE RATES		
PEST/DISEASE	Fluid oz/1000	Pound	DIRECTIONS
	Linear ft. 1	bifenthrin/acre	
Wireworm	0.21 - 1.05	0.04 - 0.2	Apply in-furrow with the seed.
Grape colaspis			F4120-2 must be applied with a
Grubs			3RIVE 3D system.
Root maggot			
Seedcorn maggot			<sup>1</sup> See rate table on page [ "4"] for
Army cutworm			amount of F4120-2 required per
Cutworm species			acre for various crop row spacings.
True armyworm			
Armyworm species			
<sup>2</sup> Suppression of "Damping			
off," seedling blights, and root			
or crown diseases caused by			
Pythium, Rhizoctonia,			
Fusarium, or Phytophthora			

<sup>&</sup>lt;sup>2</sup> For improved performance and better disease management, use the highest application rate; however, under moderate to severe disease pressure, or when environmental conditions are conducive to rapid disease development, mix F4120-2 with other fungicides labeled for this use with the 3RIVE 3D System.

#### **Succulent Peas and Beans Restrictions:**

- Do not apply more than 0.2 pound bifenthrin active ingredient per acre per season as an at-plant application
- Do not apply more than 0.2 pound bifenthrin active ingredient per acre per season including PPI, at-plant, PRE, and foliar applications of other bifenthrin products.

#### **Tuberous and Corm Vegetables, Crop Subgroup 1C**

Arracacha; arrowroot; Chinese artichoke; Jerusalem artichoke; edible canna; bitter and sweet cassava; chayote (root); chufa; dasheen (taro); ginger; leren; potato; sweet potato; tanier; turmeric; yam bean; true vam

#### At-Plant

	USE RATES		
PEST/DISEASE	Fluid oz/1000	Pound	DIRECTIONS
	Linear ft. 1	bifenthrin/acre	
Wireworms	0.78 – 1.57	0.15 - 0.3	Apply in-furrow with the seed piece. F4120-
Grape colaspis			2 must be applied with a 3RIVE 3D system.
White grub			
Sweet potato flea beetle			<sup>1</sup> See rate table on page [ "4"] for amount of
			F4120-2 required per acre for various crop
<sup>2</sup> Suppression of "Damping			row spacings.
off," seedling blights, and			
root or crown diseases			
caused by <i>Pythium</i> ,			
Rhizoctonia, Fusarium, or			
Phytophthora			

<sup>&</sup>lt;sup>2</sup> For improved performance and better disease management, use the highest application rate; however, under moderate to severe disease pressure, or when environmental conditions are conducive to rapid disease development, mix F4120-2 with other fungicides labeled for this use with the 3RIVE 3D System.

#### **Tuberous and Corm Vegetables Restrictions:**

- Do not apply more than 0.3 pound bifenthrin active ingredient per acre per season as an at-plant application.
- Do not apply more than 0.5 pound bifenthrin active ingredient per acre per season including PPI, at-plant, lay-by, and foliar applications of other bifenthrin products.

# STORAGE AND DISPOSAL

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

#### **Pesticide Storage**

If storing this product below freezing, user should shake or roll the container to ensure proper product consistency. Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Store at less than 95°F. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call CHEMTREC (Transportation and Spills) at 1-800-424-9300. To confine spill, dike surrounding area or absorb with sand, cat litter or commercial clay. Place damaged package in a holding container, Identify contents.

#### Pesticide Disposal

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

#### **Container Handling**

**U-Turn® Container:** Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

Metal or Plastic Container: Non-refillable container (in sizes 5 gallons or less): Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank and drain for 10 seconds after flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds, pour rinsate into application equipment or 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. Then offer for recycling if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Do not cut or weld metal containers.

Non-refillable container (in sizes greater than 5 gallons): Do not reuse or refill this container. Triple rinse or pressure rinse. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Turn the container over onto its other end and tip back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat

this procedure two more times. Then offer for recycling if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Do not cut or weld metal containers. **Pressure rinse as follows**: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Do not cut or weld metal containers.

Returnable/Refillable Containers (if other than U-Turn Container): Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

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**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

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