



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

January 29, 2026

Jeanette Covert
Regional Regulatory Manager
UPL NA Inc.
630 Freedom Business Center, Ste. 402
King of Prussia, PA 19406

Subject: Label Amendment - Registration Review Mitigation for Bifenthrin
Product Name: BIFENTHRIN 7.9% FL L&T
EPA Registration Number: 70506-475
Case Number: 479639
Application Dates: 10/16/2025

Dear Jeanette Covert:

The Agency, in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Bifenthrin Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

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 Assurance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling and must be used at your next label printing. You must submit one copy of the final printed labeling before you release the product for

shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Carolyn Smith by phone at 202-566-2273, or via email at smith.carolyn@epa.gov.

Sincerely,



Jaclyn Pyne, Team Leader
Risk Management and Implementation Branch 3
Pesticide Re-Evaluation Division
Office of Pesticide Programs

ENCLOSURE: Stamped label

BIFENTHRIN 7.9% FL L&T
INSECTICIDE/MITICIDE

Only for Use and Storage by Commercial Applicators. To control insect pests and mites indoors, in interiorscapes and outdoors on ornamentals and lawns in landscaped areas around residential, institutional, public, commercial, and industrial buildings, parks, recreational areas and athletic fields.

For both indoor and outdoor use.

ACTIVE INGREDIENT:

Bifenthrin* 7.9%

INERT INGREDIENTS: 92.1%

TOTAL:

BIFENTHRIN 7.9% FL L&T contains 2/3 pound active ingredient per gallon.

*Cis isomers 97% minimum, trans isomers 3% maximum.

KEEP OUT OF REACH OF CHILDREN
CAUTION

See other panels for additional precautionary information

FIRST AID

IF SWALLOWED: Call a physician or 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.

IF INHALED: Remove person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth. Call a poison control center or doctor for further 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.

IF IN EYES: Hold eyes 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. Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN: This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

EMERGENCY TELEPHONE NUMBERS: Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL ROCKY MOUNTAIN POISON AND DRUG SAFETY:

1-866-673-6671

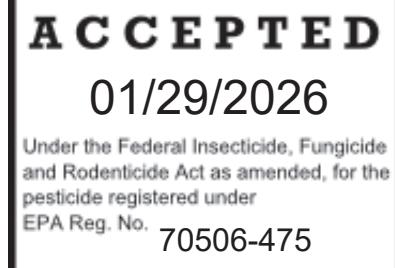
FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300

EPA Reg. No. 70506-475

EPA Est. No.

NET CONTENTS: _____

Manufactured For:
UPL NA Inc.
PO Box12219
Research Triangle Park, NC 27709



PRECAUTIONARY STATEMENTS
Hazards to Humans (and Domestic Animals)

CAUTION. Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

All pesticide handlers (mixers, loaders and applicators) must wear long sleeved shirt and long pants, socks, shoes and chemical resistant gloves made of Barrier Laminate, Butyl Rubber ≥14 mils, Nitrile Rubber ≥14 mils, Neoprene Rubber ≥14 mils, Natural Rubber* ≥14 mils, Polyethylene, Polyvinyl Chloride (PVC) ≥14 mils, or Viton ≥14 mils. After this product is diluted in accordance with label directions for use shirt, pants, socks and waterproof gloves are sufficient.

*Includes natural rubber blends and laminates.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and aquatic invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Care should be used when spraying to avoid fish and reptile pets in/around ornamental ponds.

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 to drift to blooming crops if bees are visiting the treatment area.

PHYSICAL AND CHEMICAL HAZARDS

Do not apply water-based dilutions of BIFENTHRIN 7.9% FL L&T to electrical conduits, motor housings, junction boxes, switch boxes or other electrical equipment because of possible shock hazard

DIRECTIONS FOR USE

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 kind of irrigation system.

Do not apply by air.

Do not apply in greenhouses and nurseries.

Not for use on sod farm turf, golf course turf, or grass grown for seed.

Do not water the treated area to the point of run-off.

Do not make applications during rain. Avoid making applications when rainfall is expected before the product has sufficient time to dry (minimum 4 hours).

Rainfall within 24 hours after application may cause unintended runoff of pesticide application.

Do not apply when the wind speed is greater than 15 mph.

Treat surfaces to ensure thorough coverage but avoid runoff.

To treat insects harbored in voids and cracks-and-crevices, applications must be made in such a manner to limit dripping and avoid runoff onto untreated structural surfaces and plants.

All outdoor spray applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

1. Application to pervious surfaces such as soil, lawn, turf, and other vegetation;
2. Perimeter band treatments of 7 feet wide or less from the base of a man-made structure to pervious surfaces (e.g., soil, mulch, or lawn);
3. Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
4. Applications around potential exterior pest entry points into man-made structures such as doorways and windows, when limited to a band not to exceed one inch;

5. Applications to vertical surfaces (such as the side of a man-made structure) directly above impervious surfaces (e.g., driveways, sidewalks, etc.), up to 2 feet above ground level;
6. Applications to vertical surfaces directly above pervious surfaces, such as soil, lawn, turf, mulch or other vegetation) only if the pervious surface does not drain into ditches, storm drains, gutters, or surface waters.

Spot treatments must not exceed two square feet in size (for example, 2 ft. by 1 ft. or 4 ft. by 0.5 ft.).

For soil or foliar applications, do not apply by ground within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.

Do not spray the product into fish pools, ponds, streams, or lakes. Do not apply directly to sewers or storm drains, or to any area like a drain or gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur.

Do not allow the product to enter any drain during or after application.

Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack-and-crevice treatment.

Do not apply or irrigate to the point of runoff.

Formula for Determining the Active Ingredient Content of the Finished Spray Mixture: The following formula may be used to determine the percent active ingredient that is in the spray tank after mixing BIFENTHRIN 7.9% FL L&T:

$$\frac{(7.9)(\text{Fl. oz. of product added to tank})}{(\text{Gallons of finished spray mix})(128)} = \text{Percent Active Ingredient of Spray Mixture}$$

IMPREGNATION AND APPLICATION OF BIFENTHRIN ON DRY BULK TURF FERTILIZERS

BIFENTHRIN 7.9% FL L&T may be impregnated on dry bulk fertilizers. When applied as directed, Bifenthrin/dry bulk fertilizer mixtures provide insect control equal to that provided by the same rates of Bifenthrin applied in water.

Impregnation: Apply using a minimum of 2.3 pounds of dry bulk fertilizer per 1,000 sq. ft. with the recommended amount of Bifenthrin 7.9% FL L&T per 1,000 sq. ft. Use a closed rotary-drum mixer or a similar type of closed blender equipped with suitable spray equipment. The spray nozzle(s) should be positioned to provide a uniform, fine spray pattern over the tumbling fertilizer for thorough coverage. The physical properties of fertilizers vary, particularly in liquid absorptive capacity. When absorptivity is sufficient, simple spray impregnation of the fertilizer with BIFENTHRIN 7.9% FL L&T provides a satisfactory, dry mixture. If the absorptive capacity is inadequate, use of a highly absorptive powder is required to provide a dry, flowable mixture. Microcel-E (Johns-Manville Products Corporation) is a recommended absorbent powder. Generally less than 2% by weight of Microcel-E is required. DO NOT impregnate BIFENTHRIN 7.9% FL L&T onto straight coated ammonium nitrate or straight limestone because these materials will not absorb the insecticide. Dry fertilizer blends containing mixtures of ammonium nitrate or limestone may be impregnated with BIFENTHRIN 7.9% FL L&T.

The amount of BIFENTHRIN 7.9% FL L&T actually required in the preparation of individual fertilizer mixtures should be determined carefully for each production operation. This is necessary to ensure that the amount of pesticide actually contained in the mixture applied to the soil represents the correct rate of use. Bulk fertilizer impregnated with BIFENTHRIN 7.9% FL L&T should be applied immediately, not stored.

All individual Federal and State regulations relating to bulk dry fertilizer blending, registration, labeling, and application of the mixtures are the responsibility of the individual and/or company selling the fertilizer and BIFENTHRIN 7.9% FL L&T mixture.

Fertilizer for this use should be grass/lawn fertilizers recommended for specific regions.

GENERAL APPLICATIONS INSTRUCTIONS

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 only for aesthetic purposes or climatic modifications and being grown in interior plantscapes, ornamental gardens or parks, or lawns and grounds.

BIFENTHRIN 7.9% FL L&T formulation mixes readily with water and other aqueous carriers, and controls a wide spectrum of insects and mites on trees, shrubs, foliage plants, non-bearing fruit and nut trees, and flowers in interiorscapes including hotels, shopping malls, office buildings, etc., and, outdoor plantscapes, such as around

residential dwellings, parks, institutional buildings, recreational areas, athletic fields and home lawns. Non-bearing crops are perennial crops that will not produce a harvestable raw agricultural commodity during the season of application.

BIFENTHRIN 7.9% FL L&T may be tank-mixed with other pesticides, including insect growth regulators. When tank mixing BIFENTHRIN 7.9% FL L&T with other pesticides, observe all precautions and limitations on each separate product label. The physical compatibility of BIFENTHRIN 7.9% FL L&T may vary with different sources of pesticide products, and local cultural practices. Any tank mixture which has not been previously tested should be prepared on a small scale (pint or quart jar), using the proper proportions of pesticides and water to ensure the physical compatibility of the mixture.

The following procedure is recommended for preparation of a new tank mix, unless specified otherwise in label directions: (1) Add wettable powders to tank water, (2) Agitate, (3) Add liquids and flowables, (4) Agitate, (5) Add emulsifiable concentrates, and (6) Agitate. If a mixture is found to be incompatible following this order of addition, try reversing the order of addition, or increase the volume of water.

Note: If the tank-mixture is found to be compatible after increasing the amount of water, then the sprayer will need to be recalibrated for a higher volume application. Do not allow tank mix to stand overnight.

Resistance: Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state pest management authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and suspect that resistance is a reasonable cause, immediately consult your local company representative or pest management advisor for the best alternative method of control for your area.

APPLICATION RECOMMENDATIONS

Lawns: Apply BIFENTHRIN 7.9% FL L&T as a surface or sub-surface treatment. Use application volumes of up to 10 gallons per 1000 square feet to get uniform coverage when treating dense grass foliage.

For low volume applications, less than 2 gallons/1000 square feet, immediate irrigation of treated area with at least 0.25 inches of water following application is recommended to ensure efficacy of sub-surface pests such as, but not limited to, Mole Crickets.

LAWN APPLICATION RATES

The application rates listed in the following table will provide excellent control of the respective pests under typical conditions. However, at the discretion of the applicator, BIFENTHRIN 7.9% FL L&T may be applied at up to 1 fluid oz. per 1000 square feet to control each of the pests listed in this

Table. The higher application rates should be used when maximum residual control is desired.

Pest	Application Rate of BIFENTHRIN 7.9% FL L&T
Armyworms ¹	
Cutworms ¹	0.18 - 0.25
Sod Webworm ¹	fluid oz. per 1000 sq. ft.
Annual Bluegrass Weevil (Hyperodes)(Adult) ²	
Banks Grass Mite ⁶	0.25 - 0.5
Billbugs (Adult) ³	fluid oz. per 1000 sq. ft.
Black Turfgrass Ataenius (Adult) ⁴	
Centipedes	
Chinch Bugs ⁵	
Crickets	
Earwigs	
Fleas (Adult)	
Grasshoppers	
Leafhoppers	
Mealybugs	
Millipedes	

Mites ⁶ Pillbugs Sowbugs	
Ants Fleas (Larvae) ⁷ Imported Fire Ants ⁸ Japanese Beetle (Adult) Mole Cricket (Adult) ⁹ Mole Cricket (Nymph) ¹⁰	0.5 - 1.0 fluid oz. per 1000 sq. ft.

COMMENTS

¹Armyworms, Cutworms and Sod Webworms: To ensure optimum control, delay watering (irrigation) or mowing for 24 hours after application. If the grass area is being maintained at a mowing height of greater than 1 inch, then higher application rates (Up to 1 fluid oz. per 1000 square feet) may be required during periods of high pest pressure.

²Annual Bluegrass Weevil (Hyperodes) adults: Applications should be timed to control adult weevils as they leave their over-wintering sites and move into grass areas. This movement generally begins when *Forsythia* is in full bloom and concludes when flowering dogwood (*Cornus florida*) is in full bloom. Consult your State Cooperative Extension Service for more specific information regarding application timing.

³Billbug adults: Applications should be made when adult billbugs are first observed during April and May. Degree day models have been developed to optimize application timing. Consult your State Cooperative Extension Service for information specific to your region. In temperate regions, spring applications targeting billbug adults will also provide control of over-wintered chinch bugs.

⁴Black Turfgrass Ataenius adults: Applications should be made during May and July to control the first and second generation of black turfgrass ataenius adults, respectively. The May application should be timed to coincide with the full bloom stage of Vanhoutte spiraea (*Spiraea vanhouttei*) and horse chestnut (*Aesculus hippocastanum*). The July application should be timed to coincide with the blooming of Rose of Sharon (*Hibiscus syriacus*).

⁵Chinch Bugs: Chinch Bugs infest the base of grass plants and are often found in the thatch layer. Irrigation of the grass area before treatment will optimize the penetration of the insecticide to the area where the chinch bugs are located. Use higher volume applications if the thatch layer is excessive or if a relatively long mowing height is being maintained. Chinch Bugs can be one of the most difficult pests to control in grasses and the higher application rates (Up to 1 fluid oz. per 1000 square feet) may be required to control populations that contain both nymphs and adults during the middle of the summer.

⁶Mites: To ensure optimal control of eriophyid mites, apply in combination with the labeled application rate of a surfactant. A second application, five to seven days after the first may be necessary to achieve acceptable control.

⁷Flea larvae: Flea larvae develop in the soil of shaded areas that are accessible to pets or other animals. Use a higher volume application when treating these areas to ensure penetration of the insecticide into the soil. Note: if the lawn area is being treated with BIFENTHRIN 7.9% FL L&T at 0.25 fluid oz. per 1000 square feet for adult flea control, then the larval application rate may be achieved by increasing the application volume two- to four-fold.

⁸Imported Fire Ants: Control will be optimized by combining broadcast applications that will control foraging workers and newly mated fly-in queens with mound drenches that will eliminate existing colonies. If the soil is not moist, then it is important to irrigate before application or use a high volume application. Broadcast treatments should apply 1 fluid oz. per 1,000 square feet. Mounds should be treated by diluting 1 teaspoon of BIFENTHRIN 7.9% FL L&T per gallon of water and applying 1 to 2 gallons of finished spray per mound. The mounds should be treated with sufficient force to break their apex and allow the insecticide solution to flow into the ant tunnels. A four foot diameter circle around the mound should also be treated. For best results, apply in cool weather (65-80°F) or in early morning or late evening hours. Note: a spray rig that is calibrated to apply 1 fluid oz. per 1,000 square feet of BIFENTHRIN 7.9% FL L&T in 5 gallons per 1,000 square feet contains the approximate dilution (1 teaspoon per gallon) that is required for fire ant mound drenches in the spray tank.

⁹Mole Cricket adults: Achieving acceptable control of adult mole crickets is difficult because preferred grass areas are subject to continuous invasion during the early spring by this extremely active stage. Applications should be made as late in the day as possible and should be watered in with up to 0.5 inches of water immediately after treatment. If the soil is not moist, then it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized. Grass areas that receive pressure from adult mole crickets should be treated at peak egg hatch to ensure optimum control of subsequent nymph populations (see below).

¹⁰Mole Cricket nymphs: Grass areas that received intense adult mole cricket pressure in the spring should be treated immediately prior to peak egg hatch. Optimal control is achieved at this time because young nymphs are more susceptible to insecticides and they are located near the soil surface where the insecticide is most concentrated. Control of larger, more damaging, nymphs later in the year may require both higher application rates and more frequent applications to maintain acceptable control. Applications should be made as late in the day as possible and should be watered in with up to 0.5 inches of water immediately after treatment. If the soil is not moist, then it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized.

BIFENTHRIN 7.9% FL L&T Lawn Dilution Chart

Application Volume	Application Rate:	Fluid Ounces* of BIFENTHRIN 7.9% FL L&T			
		Diluted to these Volumes of Finished Spray			
Gallons Per 1000 sq. ft.	Fluid Ounces per 1000 sq. ft.	1 Gallon	5 Gallons	10 Gallons	100 Gallons
1.0	0.18	0.18	0.90	1.8	18.0
1.0	0.25	0.25	1.25	2.5	25.0
1.0	0.5	0.5	2.5	5.0	50.0
1.0	1.0	1.0	5.0	10.0	100.0
2.0	0.18	-	0.45	0.90	9.0
2.0	0.25	0.13	0.63	1.25	12.5
2.0	0.5	0.25	1.25	2.5	25.0
2.0	1.0	0.5	2.5	5.0	50.0
3.0	0.18	-	0.30	0.60	6.0
3.0	0.25	-	0.42	0.83	8.3
3.0	0.5	0.17	0.83	1.67	16.7
3.0	1.0	0.33	1.67	3.33	33.3
4.0	0.18	-	0.23	0.45	4.5
4.0	0.25	-	0.31	0.63	6.3
4.0	0.5	0.13	0.63	1.25	12.5
4.0	1.0	0.25	1.25	2.5	25.0
5.0	0.18	-	0.18	0.36	3.6
5.0	0.25	-	0.25	0.5	5.0
5.0	0.5	0.1	0.5	1.0	10.0
5.0	1.0	0.2	1.0	2.0	20.0
10.0	0.18	-	-	0.18	1.8
10.0	0.25	-	0.13	0.25	2.5
10.0	0.5	-	0.25	0.5	5.0
10.0	1.0	0.1	0.5	1.0	10.0

*To convert to milliliters, multiply by 29.57

1 fluid oz. = 29.57 ml = 2 tablespoons = 6 teaspoons

Do not use household utensils to measure BIFENTHRIN 7.9% FL L&T.

ORNAMENTALS AND TREES

For ornamental applications (including but not limited to trees, shrubs, ground covers, bedding plants, and foliage plants) apply 0.125 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per 1,000 square feet or 5.4 to 43.5 fluid oz. per 100 gallons. BIFENTHRIN 7.9% FL L&T may be diluted and applied in various volumes of water providing that the maximum label rate (1.0 fluid oz. per 1,000 square feet or 43.5 fluid oz. per 100 gallons) is not exceeded. BIFENTHRIN 7.9% FL L&T may be applied through low volume application equipment by dilution with water or other carriers and providing that the maximum label rate (1.0 fluid oz. per 1,000 square feet or 43.5 fluid oz. per 100 gallons) is not exceeded.

Apply the specified application rate as a full coverage foliar spray. Repeat treatment as necessary to achieve control using higher application rates as pest pressure and foliage area increases. Repeat application should be limited to no more than once per seven days.

Certain cultivars may be sensitive to the final spray solution. A small number of plants should be treated and observed for one week prior to application to the entire planting.

Use of an alternate class of chemistry in a treatment program is recommended to prevent or delay pest resistance

BIFENTHRIN 7.9% FL L&T ORNAMENTAL DILUTION CHART

Fluid Ounces* of BIFENTHRIN 7.9% FL L&T

Application Volume:		Applic. Rate:	Diluted to these Volumes of Finished Spray			
Gallons Per 1000 sq. ft.	Acre	Fluid Ounces per 1000 sq. ft.	1 Gallon	5 Gallons	10 Gallons	100 Gallons
2.3	100	0.125	-	0.27	0.54	5.4
2.3	100	0.25	0.11	0.54	1.08	10.8
2.3	100	0.5	0.22	1.09	2.17	21.7
2.3	100	1.0	0.44	2.17	4.35	43.5
4.6	200	0.125	-	0.14	0.27	2.7
4.6	200	0.25	-	0.27	0.54	5.4
4.6	200	0.5	0.11	0.54	1.09	10.9
4.6	200	1.0	0.22	1.09	2.17	21.7
6.9	300	0.125	-	-	0.18	1.8
6.9	300	0.25	-	0.18	0.36	3.6
6.9	300	0.5	-	0.36	0.72	7.2
6.9	300	1.0	0.15	0.72	1.45	14.5

*To convert to milliliters, multiply by 29.57

300 gallons per acre is a typical application volume for landscape ornamental applications.

1 fluid oz. = 29.57 ml = 2 tablespoons = 6 teaspoons

Do not use household utensils to measure BIFENTHRIN 7.9% FL L&T.

Calculating Dilution Rates using the Ornamental Application Rates Table and the BIFENTHRIN 7.9% FL L&T Ornamental Dilution Chart: The following steps should be taken to determine the appropriate dilution of BIFENTHRIN 7.9% FL L&T that is required to control specific pests:

- 1) Identify the least susceptible target pest (the pest requiring the highest application rate for control).
- 2) Select an application rate in terms of fluid oz. of Bifenthrin.
- 3) Identify your application volume and how much spray mix you want to prepare.
- 4) Use the Ornamental Dilution Chart to determine the appropriate volume of BIFENTHRIN 7.9% FL L&T that must be mixed in your desired volume of water.

For example, suppose you are trying to control black vine weevil adults on rhododendron. The Ornamental Application Rates table shows that 0.25 to 0.5 fluid oz. of BIFENTHRIN 7.9% FL L&T should be applied per 1,000 square feet. You select an application rate of 0.5 fluid oz. per 1,000 square feet because maximum residual control is desired. Your application volume is approximately 300 gallons per acre, which is equivalent to 6.9 gallons per 1,000 square feet. Consulting the Ornamental Dilution Chart reveals that you should dilute 0.72 fluid oz. of BIFENTHRIN 7.9% FL L&T in 10 gallons of water.

ORNAMENTAL APPLICATION RATES

The application rates listed in the following table will provide excellent control of the respective pests under typical conditions. However, at the discretion of the applicator, BIFENTHRIN 7.9% FL L&T may be applied at up to 1 fluid oz. per 1,000 square feet (43.5 fluid oz. per 100 gallons) to control each of the pests listed in this Table. The higher application rates should be used when maximum residual control is desired.

PEST	Application Rate BIFENTHRIN 7.9% FL L&T	
	Fluid Ounces per 1000 square feet	Fluid Ounces per 100 gallons
Bagworms ¹¹		
Cutworms	0.125 - 0.25	5.4 - 10.8
Elm Leaf Beetles		

PEST	Application Rate BIFENTHRIN 7.9% FL L&T	
	Fluid Ounces per 1000 square feet	Fluid Ounces per 100 gallons
Fall Webworms		
Gypsy Moth Caterpillars		
Lace Bugs		
Leaf Feeding Caterpillars		
Tent Caterpillars		
Adelgids	0.25 - 0.5	10.8 - 21.7
Ants		
Aphids		
Bees		
Beet Armyworm		
Beetles ¹²		
Black Vine Weevil (Adults)		
Brown Soft Scales		
Broad Mites		
Budworms		
California Red Scale (Crawlers) ¹²		
Centipedes		
Cicadas		
Citrus Thrips		
Clover Mites		
Crickets		
Diaprepes (Adults)		
Earwigs		
European Red Mite		
Flea Beetles		
Fungus Gnats (Adults)		
Grasshoppers		
Japanese Beetle (Adult)		
Leafhoppers		
Leafrollers		
Mealybugs		
Millipedes		
Mites		
Mosquitoes		
Orchid Weevil		
Pillbugs		
Pine Needle Scales (Crawlers) ¹²		
Plant Bugs (Including <i>Lygus</i> spp.)		
Psyllids		
San Jose Scales (Crawlers) ¹²		
Scorpions		
Sowbugs		
Spider Mites ¹³		
Spiders.		
Spittlebugs		
Thrips		
Tip Moths		
Treehoppers		
Twig Borers ¹²		
Wasps		

PEST	Application Rate BIFENTHRIN 7.9% FL L&T	
	Fluid Ounces per 1000 square feet	Fluid Ounces per 100 gallons
Weevils ¹² Whiteflies		
Imported Fire Ants** Leafminers Pecan Leaf Scorch Mite Pine Shoot Beetle (Adults) Spider Mites ¹³	0.5 - 1.0	21.7 - 43.5

¹¹**Bagworms:** Apply when larvae begin to hatch and spray larvae directly. Applications when larvae are young will be most effective.

¹²**Beetles, Scale Crawlers, Twig Borers, and Weevils:** Treat trunks, stems and twigs in addition to plant foliage.

¹³**Spider Mites:** BIFENTHRIN 7.9% FL L&T provides optimal two-spotted spider mite control when applied during spring to mid-summer. Higher application rates and/or more frequent treatments may be required for acceptable two-spotted spider mite control during mid- to late-summer. The addition of a surfactant or horticultural oil may increase the effectiveness of BIFENTHRIN 7.9% FL L&T. Combinations of BIFENTHRIN 7.9% FL L&T with other registered miticides have also proven effective. Alternately, BIFENTHRIN 7.9% FL L&T applications may be rotated with those of other products that have different modes of action in control programs that are designed to manage resistance by two-spotted spider mites. Consult your local Cooperative Extension Service for resistance management recommendations in your region.

**For foraging ants.

PEST CONTROL ON OUTSIDE SURFACES AND AROUND BUILDINGS

For control of Ants, Bees, Beetles, Biting Flies, Boxelder Bugs, Centipedes, Clover mites, Cockroaches, Crickets, Earwigs, Elm Leaf Beetles, Firebrats, Fleas, Flies, Millipedes, Mosquitoes, Pillbugs, Scorpions, Silverfish, Sowbugs, Spiders, and Wasps.

Apply BIFENTHRIN 7.9% FL L&T using a 0.02 to 0.06% suspension as a residual spray to outside surfaces of buildings including, but not limited to, exterior siding, foundations, porches, window frames, eaves, patios, garages, refuse dumps, lawns such as grass areas adjacent or around private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, fence lines, storage sheds, barns, and other residential and non-commercial structures, soil, trunks of woody ornamentals and other areas where pests congregate or have been seen. Use a spray volume of up to 10 gallons of emulsion per 1,000 square feet. Higher application volumes may be used to obtain the desired coverage of dense vegetation or landscaping materials.

Mixing Directions: For 0.02% suspension, mix 0.33 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water. For 0.06% emulsion, mix 1 fluid oz. BIFENTHRIN 7.9% FL L&T per gallon of water (1 fluid oz. = 2 tablespoons). Do not use household utensils to measure BIFENTHRIN 7.9% FL L&T. Use the higher rate for heavy pest infestation, quicker knockdown or longer residual control. Retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure. Repeat application is necessary only if there are signs of renewed insect activity. Repeat application should be limited to no more than once per seven days.

Perimeter Treatment: Treat a band of soil and vegetation 6 to 10 feet wide around and adjacent to the structure. Also, treat the foundation of the structure to a height of 2 to 3 feet. Apply 0.33 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per 1,000 square feet in sufficient water to provide adequate coverage (refer to Perimeter Application Dilution Chart).

BIFENTHRIN 7.9% FL L&T

PERIMETER APPLICATION DILUTION CHART

Application Volume	Application Rate	Fluid Ounces* of BIFENTHRIN 7.9% FL L&T			
		Diluted to these Volumes of Finished Spray			
Gallons per 1000 sq. ft.	Fluid ounces per 1000 sq. ft.	1 Gallon	5 Gallons	10 Gallons	100 Gallons
1.0	0.33	0.33	1.67	3.33	33.3
1.0	0.5	0.5	2.5	5.0	50.0
1.0	0.67	0.67	3.33	6.67	66.7
1.0	0.75	0.75	3.75	7.5	75.0
1.0	1.0	1.0	5.0	10.0	100.0
2.0	0.33	0.17	0.83	1.65	16.5
2.0	0.5	0.25	1.25	2.5	25.0
2.0	0.67	0.33	1.67	3.35	33.5
2.0	0.75	0.38	1.88	3.75	37.5
2.0	1.0	0.5	2.5	5.0	50.0
3.0	0.33	0.11	0.55	1.10	11.0
3.0	0.5	0.17	0.83	1.67	16.7
3.0	0.67	0.22	1.11	2.23	22.3
3.0	0.75	0.25	1.25	2.5	25.0
3.0	1.0	0.33	1.67	3.33	33.3
4.0	0.33	-	0.41	0.83	8.3
4.0	0.5	0.13	0.63	1.25	12.5
4.0	0.67	0.17	0.84	1.67	16.7
4.0	0.75	0.19	0.94	1.88	18.8
4.0	1.0	0.25	1.25	2.5	25.0
5.0	0.33	-	0.33	0.67	6.7
5.0	0.5	0.1	0.5	1.0	10.0
5.0	0.67	0.13	0.67	1.33	13.3
5.0	0.75	0.15	0.75	1.5	15.0
5.0	1.0	0.2	1.0	2.0	20.0
10.0	0.33	-	0.17	0.33	3.3
10.0	0.5	-	0.25	0.5	5.0
10.0	0.67	-	0.33	0.67	6.7
10.0	0.75	-	0.38	0.75	7.5
10.0	1.0	0.1	0.5	1.0	10.0

*To convert to milliliters, multiply by 29.57

1 fluid oz. = 29.57 ml = 2 tablespoons = 6 teaspoons

Do not use household utensils to measure BIFENTHRIN 7.9% FL L&T.

For Ant and Fire Ant Mounds use BIFENTHRIN 7.9% FL L&T 0.06% emulsion as Drench Method: Apply 1-2 gallons of emulsion to each mound area by sprinkling the mound until it is wet and treat a 4 foot diameter circle around the mound. Use the higher volume for mounds larger than 12". For best results, apply in cool weather, such as in early morning or late evening hours, but not in the heat of the day.

Mosquito Control: Dilute 0.33 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and apply at the rate of one gallon of dilution per 1,000 square feet as a general spray around landscapes, lawn and buildings to control mosquitoes. For higher volume applications, BIFENTHRIN 7.9% FL L&T may be diluted at lower concentrations and applied at greater volumes to deliver the desired amount of product per area (refer to the Ornamental or Perimeter Application Dilution Charts).

INDOOR USE

Do not use in food/feed areas of food/feed handling establishments, restaurants or other areas where food is commercially prepared or processed. Do not use in serving areas while food/feed is exposed or facility is in operation. Serving areas are areas where prepared foods are served, such as dining rooms, but excluding areas where food may be prepared or held. In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food should be covered or removed.

Do not apply a broadcast application to interior surfaces of homes.

For control of ants, bees, beetles, boxelder bugs, centipedes, cockroaches, crickets, earwigs, firebrats, flies, millipedes, pillbugs, scorpions, silverfish, sowbugs, spiders, and wasps.

Use a 0.02% to 0.06% suspension (0.33 to 1 fluid oz. per gallon of water) for residual pest control in buildings and structures and on modes of transport. Apply either as a crack and crevice, pinstream, spot, coarse, low pressure spray (25 psi or less) or with a paint brush.

Indoor Treatments: Apply as a coarse, low pressure, crack and crevice or spot spray to areas where pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, behind and under refrigerators, cabinets, sinks, furnaces, stoves, the underside of shelves, drawers and similar areas. Do not use as a space spray. Pay particular attention to cracks and crevices.

Mixing Directions: See mixing directions in "Pest Control on Outside Surfaces and Around Buildings" section.

BIFENTHRIN 7.9% FL L&T is to be diluted with water for spray or brush application. Fill sprayer with the desired volume of water and add BIFENTHRIN 7.9% FL L&T. Close and shake before use in order to insure proper mixing. Mix only the amount of solution needed for the application. Retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure. Repeat application is necessary only if there are signs of renewed insect activity. Repeat application should be limited to no more than once per seven days.

Cockroaches, Crickets, Firebrats, Scorpions, Silverfish, and Spiders: Apply as a coarse, low pressure spray to areas where these pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, behind and under refrigerators, cabinets, sinks, furnaces, and stoves, the underside of shelves, drawers and similar areas. Pay particular attention to cracks and crevices.

Ants: Apply to any trails, around doors and windows and other places where ants may be found.

Bees and Wasps: Application to nests should be made late in the evening when insects are at rest. Thoroughly spray nest and entrance and surrounding areas where insects alight.

Boxelder Bugs, Centipedes, Earwigs, Beetles, Millipedes, Pillbugs, and Sowbugs: Apply around doors and windows and other places where these pests may be found or where they may enter premises. Spray baseboards, storage areas and other locations.

Food Handling Establishments: Places other than private residences in which food is held, processed, prepared or served.

Nonfood Areas: Permitted areas of use include industrial buildings, houses, apartment buildings, laboratories, buses, and the nonfood/feed areas of stores, warehouses, vessels, railcars, trucks, trailers, aircraft (Do not use in aircraft cabins); schools, nursing homes, hospitals, restaurants, hotels, food manufacturing, processing and service establishments. Nonfood/feed areas are areas such as garbage rooms, lavatories, entries and vestibules, offices, locker rooms, machine rooms, garages, mop closets and storage (after canning or bottling). BIFENTHRIN 7.9% FL L&T may be used as a general spot, crack and crevice treatment in non-food areas. All areas where insects hide or through which insects may enter should be treated.

FOAM APPLICATIONS

BIFENTHRIN 7.9% FL L&T may be converted to foam and used to treat structural voids. Dilute 0.33 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and add the manufacturers recommended volume of foaming agent to produce a 0.02 to 0.06 percent foam concentration. Verify before treatment that the foaming agent is compatible with BIFENTHRIN 7.9% FL L&T.

TERMITES CONTROL (ABOVE GROUND ONLY)

The purpose of the applications described below are to kill termite workers or winged reproductives that may be present at the time of treatment. These applications are intended as supplements to, and not substitutes for, mechanical alteration, soil treatment or foundation treatment.

To control exposed workers and winged reproductive termites in localized area, dilute 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and apply as a coarse fan spray at the rate of one gallon per 1,000 square feet to attics, crawl spaces, unfinished basements and other void areas. Treat swarming termites as well as the areas in which they congregate.

To control above-ground termites in localized areas of infested wood, dilute 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and apply as a liquid or foam to voids and galleries in damaged wood as well as to spaces between wooden structural members and between the sill plate and foundation where wood is vulnerable to attack. Applications may be made to inaccessible areas by drilling and then injecting the dilution or foam, with a suitable directional injector into damaged wood or wall voids. All treatment holes drilled in construction elements in commonly occupied areas of structures should be securely plugged after treatment.

To control termite carton nests in building voids, dilute 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and apply as a liquid or foam using a pointed injection tool. Multiple injection points and varying depths of injection may be necessary to achieve control. When possible, the carton nest material should be removed from the building void after treatment.

ANT CONTROL

Nuisance Ants Indoors: For best results, locate and treat ant nests. Dilute 0.5 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and apply at the rate of one gallon of dilution per 1,000 square feet as a general surface, crack and crevice or spot treatment to areas where ants have been observed or are expected to forage. These areas include, but are not limited to, baseboards, in and behind cabinets, under and behind dishwashers, furnaces, refrigerators, sinks and stoves, around pipes, cracks and crevices and in corners. Particular attention should be given to treating entry points into the home or premises such as around doors and windows. When using BIFENTHRIN 7.9% FL L&T in combination with baits, apply Bifenthrin as instructed above, and use baits in other areas that have not been treated with Bifenthrin.

Nuisance Ants Outdoors: For best results, locate and treat ant nests. Apply BIFENTHRIN 7.9% FL L&T to ant trails around doors and windows and other places where ants have been observed or are expected to forage. Apply a perimeter treatment using either low or high volume applications described in the "Pest Control on Outside Surfaces and Around Buildings" section of this label. The higher dilutions and/or application volumes, as well as more frequent applications, may be necessary when treating concrete surfaces for ant control. Maximum control is generally achieved using the following procedure:

- 1) Treat non-porous surfaces with low volume applications using 0.5 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and applying this dilution at the rate of one gallon per 1,000 square feet.
- 2) Treat porous surfaces and vegetation with high volume applications using dilutions that are calculated to deliver 0.5 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per 1,000 square feet (refer to the Ornamental and Perimeter Application Dilution Charts).
- 3) For maximum residual control, dilute 0.5 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and apply at a rate of up to 10 gallons of dilution per 1,000 square feet.

Carpenter Ants Indoors: Dilute 0.5 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and apply at the rate of one gallon of dilution per 1,000 square feet as a general surface, crack and crevice or spot treatment to areas where carpenter ants have been observed or are expected to forage. These areas include, but are not limited to, baseboards, in and behind cabinets, under and behind dishwashers, furnaces, refrigerators, sinks, and stoves, around pipes, cracks and crevices and in corners. Particular attention should be given to treating entry points into the home or premises such as around doors and windows. Spray or foam into cracks and crevices or drill holes and spray, mist or foam into voids where carpenter ants or their nests are present. When using BIFENTHRIN 7.9% FL L&T in combination with baits, apply BIFENTHRIN 7.9% FL L&T as instructed above, and use baits in other areas that have not been treated with BIFENTHRIN 7.9% FL L&T.

Carpenter Ants Outdoors: Apply BIFENTHRIN 7.9% FL L&T to carpenter ant trails around doors and windows and other places where carpenter ants have been observed or are expected to forage. For best results, locate and treat carpenter ant nests. Apply a perimeter treatment using either low or high volume applications described in the "Pest Control on Outside Surfaces and Around Buildings" section of this label. The higher dilutions and/or application volumes, as well as more frequent applications, may be necessary when treating concrete surfaces for carpenter ant control. Maximum control is generally achieved using the following procedure:

- 1) Treat non-porous surfaces with low volume applications using 0.5 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and applying this dilution at the rate of one gallon per 1,000 square feet
- 2) Treat the trunks of trees that have carpenter ant trails, or upon which carpenter ants are foraging, using 0.5 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and applying this dilution to thoroughly wet the bark from the base of the tree to as high as possible on the trunk
- 3) Treat porous surfaces and vegetation with high volume applications using dilutions that are calculated to deliver 0.5 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per 1,000 square feet (refer to the Ornamental and Perimeter Application Dilution Charts)
- 4) For maximum residual control, dilute 0.5 to 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and apply at a rate of up to 10 gallons of dilution per 1,000 square feet.

To control carpenter ants inside trees, utility poles, fencing or deck materials and similar structural members, drill to locate the interior infested cavity and inject or foam a 0.06% dilution (1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water) into the cavity using a sufficient volume and an appropriate treatment tool with a splash-back guard.

To control carpenter ants that are tunneling in the soil, dilute 0.5 to 1.0 fluid ounces of BIFENTHRIN 7.9% FL L&T per gallon of water and apply as a drench or inject the dilution or foam at intervals of 8 to 12 inches. Establish a uniform vertical barrier at the edges of walls, driveways or other hard surfaces where ants are tunneling beneath the surfaces.

For wood piles and stored lumber apply a 0.06% emulsion. Use a hose-end sprayer or sprinkling can to deliver a coarse drenching spray. Treated wood can be burned or used for lumber one month after treatment. Do not use in structures.

To protect firewood from carpenter ants (and termites), dilute 1.0 fluid oz. of BIFENTHRIN 7.9% FL L&T per gallon of water and apply to the soil beneath where the firewood will be stacked at the rate of one gallon of dilution per 8 square feet. DO NOT treat firewood with this product.

ATTENTION

Do not allow people or pets on treated surfaces until spray has dried.

Let surfaces dry before allowing people and pets to contact surfaces.

Do not treat pets with this product

Do not apply this pesticide when classrooms are in use.

Do not apply this pesticide in occupied patient rooms, or in any rooms occupied by the infirm, elderly or children for extended periods of time.

Do not apply this pesticide in livestock buildings (barns).

BIFENTHRIN 7.9% FL L&T will not stain or damage any surface that water alone will not stain or damage.

Application equipment that delivers low volume treatments, such as the Micro Injector® or Actisol® applicators, may also be used to make crack and crevice, deep harborage, spot and general surface treatments of BIFENTHRIN 7.9% FL L&T.

Dealers Should Sell in Original Packages Only

STORAGE AND DISPOSAL

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

Pesticide Storage: Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use replace lids and close tightly. Do not put concentrate or dilute material into food or drink container. In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills.

To Confine Spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

Pesticide Disposal: Pesticide wastes are toxic. Do not contaminate water, food or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Do not pour or dispose down-the-drain or sewer. Call your local solid waste agency for local disposal options.

Container Disposal:

Containers equal to or less than 5 gallons: 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 mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration or if allowed by state and local authorities, by burning. If burned stay out of smoke.

Returnable/Refillable containers: Refillable container. Refill this container with this 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 from this container into application equipment or mix tank. Fill the container about 10 percent 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. Do not break seals. Return intact to point of purchase.

Warranty and Disclaimer Statement

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of UPL NA Inc. and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

UPL NA Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to UPL NA Inc. and is subject to the inherent risks described above.

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