



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

October 15, 2020

LNouvel, Inc.
c/o Mary Hunt
Exponent, Inc.
Authorized Representative
1150 Connecticut Ave, NW, Suite 1100
Washington, DC 20036

Subject: Label Amendment – Addition of food uses & label revisions
Product Name: LN 1% PY
EPA Registration Number: 87093-10
Application Date: 11/19/2019
Decision Number: 558753

Dear Ms. Hunt:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. 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 18 months from the date of this letter. After 18 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.

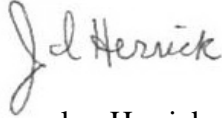
Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded 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

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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,

A handwritten signature in cursive script that reads "J. Herrick".

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

Enclosure

[] – Denotes optional label language
{ } – Denotes a comment for the reviewer

Non-PRIA Amendment revised 10/14/2020

LN 1% PY

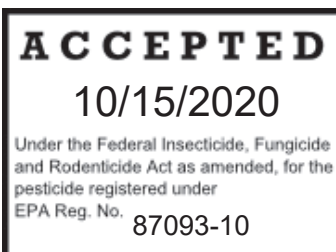
PYRETHRINS	GROUP	3A	INSECTICIDE
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[Multi-purpose insecticide]
[For indoor and outdoor use on ornamental plants and landscape ornamentals]
[For indoor and outdoor food use]
[For indoor and outdoor use as a premise spray]
[Residential and commercial use]
[For control of fungus gnats and mushroom flies]
[LN 1% PY is a multi-purpose insecticide for use in, around and on indoor and outdoor premises [{or} ornamental plants and landscape ornamentals.]
[LN 1% PY is a multipurpose insecticide for control of pests on and around livestock, poultry and their premises]

ACTIVE INGREDIENTS:

Pyrethrins 1.00%
OTHER INGREDIENTS 99.00%
TOTAL: 100.00%

This product contains 0.0845 lbs. Pyrethrins per Gallon



STOP – READ THE LABEL BEFORE USE KEEP OUT OF REACH OF CHILDREN WARNING / AVISO

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.)

NET CONTENTS: [4 fl. oz. [118.3 mL]], [8 fl. oz. [236.6 mL]], [16 fl. oz. [473.2 mL]], [32 fl. oz. [946.4 mL]], [64 fl. oz. [1.9 liters]], [128 fl. oz. [3.8 liters]] [5 gal [18.9 liters]]

FIRST AID	
If in eyes:	<ul style="list-style-type: none">• 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
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information on this pesticide product (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378, 6:30 AM to 4:30 PM Pacific Time (PT), seven days a week. During other times, call the poison control center at 1-800-222-1222.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Warning: Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

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).

This product is toxic to aquatic organisms, including fish and invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through runoff. This product has a potential for runoff for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean highwater mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Care must be taken to avoid runoff. Do not contaminate water when disposing of equipment wash-waters or rinsate.

PERSONAL PROTECTIVE EQUIPMENT (PPE) [Professional]

Materials that are chemical-resistant to this product are listed below.

Applicators and other handlers who may be exposed to the dilute and/or concentrate through application or other tasks must wear:

- Long-sleeve shirt and long pants;
- Chemical-resistant gloves made of Barrier Laminate, Nitrile Rubber \geq 14 mils, Neoprene Rubber \geq 14 mils, or Viton \geq 14 mils;
- Shoes plus socks; and
- Protective eyewear (goggles, face shield, or safety glasses).

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 material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

USER SAFETY RECOMMENDATIONS

Users should: Remove clothing 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.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read entire label. Use strictly in accordance with label precautionary statements and directions.

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

AGRICULTURAL USE REQUIREMENTS

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

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

- Coveralls over long-sleeve shirt;
- Chemical-resistant gloves made of Barrier Laminate, Nitrile Rubber \geq 14 mils, Neoprene Rubber \geq 14 mils, or Viton \geq 14 mils;
- Shoes plus socks; and
- Protective eyewear (goggles, face shield, or safety glasses).

NONAGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Do not enter or allow people (or pets) to enter the treated areas until sprays have dried.

IMPORTANT: Read entire DIRECTIONS FOR USE before using LN 1% PY.

USE RESTRICTIONS AND PRECAUTIONS

- Do not make applications during the rain.
- Do not wet plants to the point of run-off or drip.
- Do not remain in the treated area. Exit area immediately and remain outside the treated area until aerosols, vapors and/or mists have dispersed.

- Not for use in outdoor residential misting systems (whether indoor or outdoor).
- Not for use in outdoor metered release devices.
- Do not reapply within 3 days, except during extreme pest pressure.
- In case of extreme pest pressure, do reapply within 24 hours.
- Do not harvest until spray has dried.
- Do not apply more than 10 times per season.
- Do not release spray at a height greater than 4 feet above the ground or crop canopy.
- Do not contaminate food or feedstuffs.
- Do not apply directly into sewers or drains, or to any area like a gutter where drainage to storm sewers, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.
- 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.
- Keep unprotected persons out of treated areas until sprays have dried.
- *For direct application to poultry/livestock:* Do not apply when food, feed and/or water is present. Prior to spray, cover or remove food. Cover food processing surfaces or clean after treatment and before use. Do not apply more than one time per day. *When used in dairy barns or facilities:* Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.
- *For use in indoor food handling/ processing facilities:*
 - Cover or remove exposed food; cover food processing surfaces or clean after treatment with a suitable detergent, rinse with potable water before use. Do not apply more than 1 time per day.
 - Remove or cover dishes, utensils, food processing equipment and food preparation surfaces, or wash them before use.
 - Remove or cover exposed food and drinking water before application.
- *For food processing and food storage sites:*
 - Do not apply directly to food.
 - Do not apply while food processing is underway.
 - Foods should be removed or covered during treatment.
 - All food processing surfaces and equipment should be covered or washed with an effective cleaning compound followed by a potable water rinse.
- *For [home][residential] surface spray use:* all food processing surfaces, dishes and utensils should be covered during treatment or thoroughly washed before use. Remove pets, birds and cover fish aquariums before application.
- *For Residential Premise Sprays:* All outdoor applications must be limited to direct application to pests using spot or crack and crevice treatments only, except for the following permitted uses:
 - Treatment of vegetation, around structures;
 - Applications to lawns, turf and other vegetation;
 - Applications to building foundations, up to a maximum height of 3 feet.

- Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors, and eaves) are limited to spot and crack and crevice applications, only.

ENTRY RESTRICTIONS: For Surface Spray Use: Do not enter or allow adults, children, or pets to enter treated areas until sprays have dried.

{Note to reviewer: many of the tables listed on this master label are optional and are appropriately marked as such}

Pests Controlled by LN 1% PY

TO CONTROL INSECTS SUCH AS:

Annual Bluegrass Weevil	Elm Leaf Beetle	Heliothis spp. (Ag. pests)	Psyllids
Ants*	European Pine Tip Moth	Japanese Beetle	Scale insects
Aphids	Fall Webworm	Katydid	Scaly leg mite
Armyworms	Firebrats	Lace Bugs	Silverfish
Bagworm	Fireworms	Leafhopper	Skippers
Blister Beetles	Flea Beetles	Leafrollers	Sowbugs
Cankerworms	Forest Tent Caterpillar	Leaf tiers	Stink Bugs
Caterpillars	Fungus Gnats	Loopers	Spiders*
Chicken (red) mites	Fruit Flies	Lygus Mealy Bugs	Tarnished Plant Bug
Codling Moth	Grasshoppers	Millipedes	Thrips
Crickets	Greenhouse Thrips	Mites – Spider and Russet	Vinegar Flies
Crane Flies	Gypsy Moth (adults & larvae)	Mushroom Flies	Webworms
Depluming mite	Harlequin Bug	Northern fowl mite	Whiteflies
Earwigs			

*Does not include public health pests such as fire, harvester, carpenter or pharaoh ants, and black widow, brown recluse or hobo spiders.

APPLICATION INSTRUCTIONS

BEST RESULTS ARE ACHIEVED BY BUFFERING WATER TO PH RANGE OF 5 to 6

COMPRESSED AIR/HYDRAULIC SPRAYERS: For surface applications apply as a course, wet spray at the specified dilution rates listed below. For crack and crevice applications, place the tip of the applicator at or into the crack, crevice or void to be treated apply product at the rate of one second per foot. Apply in such a manner as to limit dripping and runoff on surfaces and plants.

HOSE END SPRAYERS: Dilute according to the specific directions for use. Shake sprayer to fully mix the product.

LOW-VOLUME SPRAYERS: Dilute according to dilution table or specific directions for use. The nozzle(s) should be directed into the plant canopy to get good penetration and coverage, maintain the appropriate distance from the plants to avoid blast damage. The operator should visualize that all the air within the canopy must be replaced by the air from the blower.

USED AS A TANK MIX: This product can be tank mixed with other insecticides and acaricides. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. Do not exceed label application rates as if mixing stand alone. Add LN 1% PY at the specified dilution rate to the mix containing the other product(s). Prior to tank mixing, conduct a compatibility test using the proper proportions of products and water to ensure the physical compatibility of the mixture. This product cannot be mixed with any product with label prohibitions against such mixing.

{Note to Reviewer: These optional phytotoxicity sections may be used in any applicable use section on the market label.}

{Begin: OPTIONAL PHYTOTOXICITY TEXT 1}

- DO NOT EXCEED LABEL RATES DUE TO PHYTOTOXICITY RISK.
- Do not apply to plants in bloom as flower petals may be injured.
- Do not spray very young plants (e.g., seedlings)
- [See the "Plants known to be less tolerant to LN 1% PY" table for plants known to be less tolerant to LN 1% PY]
- This product may not be used on plants with delicate leaves because of phytotoxicity risk. If in doubt, perform a preliminary test on a few plants to ensure a lack of phytotoxicity.
- Buffer spray water to pH range of 4.0-7.5 (widest pH range).
- In order to reduce phytotoxicity risk the product must be applied when the conditions allow easy and fast drying of spray dilution on plants (e.g. when the weather is dry and sunny). Morning applications are preferable.

[To minimize phytotoxic effect, spray when conditions allow for fast drying of spray solution on plants (e.g., during the day when humidity is low. Do not apply under conditions of high humidity, at night or on cloudy days.) Undried spray solution remaining on the leaves for more than a few hours can damage leaves of sensitive crops (e.g. pear, tomato, Cucurbitaceae).]

- [To reduce or eliminate the risk of phytotoxicity
 - Apply under conditions that allow for fast drying of spray solution on plants (e.g. in the morning when leaves are dry). This is especially advised for pear, apple, tomato and pepper.
 - Do not spray on apples when fruit have formed
 - Do not mix the product with any wetting agents, adjuvants etc.]

[PHYTOTOXICITY NOTE: Plant safety is an important consideration when using insecticides [in a greenhouse]. However, it is not possible to evaluate the phytotoxicity of LN 1% PY towards all plant varieties that may react differently to insecticides in different growth stages or under varying environmental conditions. Before making widespread applications of LN 1% PY, treat a limited number of plants and observe for

phytotoxicity over a 2-3-day period.]
{End: OPTIONAL PHYTOTOXICITY TEXT 1}

{Begin: OPTIONAL PHYTOTOXICITY TEXT 2}

[Plant Safety Information:

Not all plant species, varieties, and cultivars have been tested for tolerance to this product or pesticide treatments preceding or following those of this product.

Local conditions can also influence plant tolerance and may not match those under which testing was conducted. Test the product on a sample of the plants to be treated to ensure that a phytotoxic response will not occur prior to large-scale use. Because many cultivars within a plant species vary in tolerance to chemical applications and growing conditions, the grower must recognize these differences and test the product accordingly. At a minimum, always test a small group of representative plants for tolerance to this product under local growing conditions and before large-scale use.

Grower assumes responsibility for testing species suitability under local growing conditions by treating a small number of plants at the specified rate. At a minimum, this should include evaluating treated plants for 2-3 days following treatment for possible injury or other effects. To the extent consistent with applicable law, by applying this product, the user assumes responsibility for any crop damage or other liability associated with factors beyond the manufacturer's control, such as weather, presence of other materials, and manner or use of application. Follow all restrictions and limitations on this label.]

[To minimize the risk of injury to ornamentals:

- Avoid application to plugs in early stages of development (1 to 2 leaf stage) as phytotoxicity may develop to some tender crops. If application is intended for this plant state, test this product on a small number of plants before doing large-scale treatments because phytotoxicity can occur to plugs at the 1 to 2 leaf stage.
- Make applications prior to blooming or avoid blooms where possible.
- To minimize risk of phytotoxicity, apply during time of day when product can dry very fast from plant surface. Avoid spraying on a cloudy day or in the night when the humidity is higher.

Under certain circumstances some plants are less tolerant to this product. [See table "Plants known to be less tolerant to LN 1% PY".] Special attention is required for applications to these crops. Product applications should first be tested at the lowest rate. All higher application rates must also be tested on a small number of plants before making large-scale treatments.

[Optional table

Plants known to be less tolerant to LN 1% PY]

Genus or Common Name
FLOWERS/ORNAMENTALS

-Chrysanthemum (some varieties) -Gerbera -Pelargonium (Geraniums) -Ornamental Asparagus
FRUIT -Apple -Pear
VEGETABLES -Cucurbitaceae (Gourds) -Leafy vegetables with delicate leaves (e.g., lettuce) -Pepper -Tomato
HERBS with delicate leaves (e.g., basil)

]

{End: OPTIONAL PHYTOTOXICITY TEXT 2}

PESTICIDE RESISTANCE MANAGEMENT

LN 1% PY contains a Group 3A insecticide. Insect biotypes with acquired resistance to Group 3A may eventually dominate the insect population if Group 3A insecticides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by LN 1% PY or other Group 3A insecticides.

To delay insecticide resistance, consider:

- Avoiding the consecutive use of LN 1% PY and other Group 3A insecticides that have a similar target site of action, on the same insect species.
- Using tank mixtures or premixes with insecticides from a different target site of action Group as long as the involved products are all registered for the same use and have different sites of action.
- Basing insecticide use on a comprehensive IPM program.
- Monitoring treated insect population for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors, and/or manufacturer for insecticide resistance management, and/or IPM recommendations for the specific site and resistance pest problems.

Used in Combination with other Insecticides: LN 1% PY may be combined with other insecticides and acaricides where resistance may be a problem. The application must conform to the accepted use restrictions and directions for both products.

Prior to tank mixing, a compatibility test should be conducted using the proper proportions of chemicals and water to ensure the physical compatibility of the mixture.

LN 1% PY should not be used in combination with or closely following the fungicide Captan applications due to foliage injury risk.

{Note to reviewer: Uses for Agricultural Production and Non-Agriculture}

ORNAMENTAL PLANTS
[Trees, shrubs, flowers, foliage plants, etc.]

Apply LN 1% PY to control pests [(refer to Table “Pests Controlled by LN 1% PY”)] on ornamental plants:

BEDDING, CUT FLOWER, FOLIAGE, PERENNIAL AND TROPICAL PLANTS: African Violet, Ageratum, Angelonia, Alstroemeria, Aster, Azalea, Begonia, Cacti, Calceolaria, Calendula, Calla, Camellia, Carnation, Ceanothus, Cineraria, Chrysanthemum, Coleus, Cyclamen, Cypress, Daffodil, Dahlia, Delphinium, Dianthus, Fern, Ficus, Foliage Plants, Fuschia, Gardenia, Geranium, Gladiolus, Gloxinia, Gypsophila, Hibiscus, Holly, Hyacinth, Hydrangea, Impatiens, Iris, Lilies, Maidenhair Fern, Marigold, Narcissus, Palm, Pansy, Pelargonium, Peony, Petunia, Herbaceous Perennials, Philodendron, Phlox, Pyracantha, Roses, Rubber Plant, Snapdragon, Stock, Sweet Pea, Tropicals, Tulips, Violas, Wandering Jew, Zinnia

WOODY ORNAMENTALS, TREES, SHRUBS AND EVERGREENS: Andromeda, Arborvitae, Ash, Aspen, Beech, Birch, Boxwood, Cotoneaster, Cottonwood, Crabapple, Dogwood, Elm, Euonymus, Fir, Firethorn, Forsythia, Flowering Cherry, Flowering Pear, Hawthorn, Hemlock, Hickory, Hibiscus, Holly, Honey Locust, Horse Chestnut, Juniper, Larch, Laurel, Lilac, Linden, Maple, Mimosa (Silk Tree), Myrtle, Oak, Pine, Planetree, Privet, Red Bud, Rhododendron, Roses, Tulip Tree, Viburnum, Willow, Yew.

[Use Sites:

Greenhouse and outdoor-grown ornamental crops including, ~~but not limited to:~~

- Bedding plants
- Containerized and ball and burlap plants
- Cut flowers
- Evergreens
- Flowering plants (to minimize phytotoxicity only apply when out of bloom)
- Foliage plants
- Ground covers
- Ornamental trees and shrubs
- Perennials]

LN 1% PY is a contact spray that works only when sprayed directly on the target pest. Good spray coverage of all plant sites where pests are feeding is necessary for control.

Re-apply 1-2 times at intervals of 7-10 days as needed.
Pest habits and level of pest pressure determine retreatment need.

Mix LN 1% PY with water for spray applications. The dilute mixture can be applied using conventional hydraulic and sprayers (including backpack). Refer to the “Application rates for ornamentals” table for the appropriate application rate.

Application rates for ornamentals

Small Treated Areas (square feet) Mix LN 1% PY as directed, spray volumes will treat 2000 sq. ft. Use sufficient volumes to ensure thorough foliage coverage.

Crops	Application Rate	LN 1% PY per 2000 sq. ft.	Spray Volume (gallons)	Use Directions
Trees	Low	½ fl. oz.	3	Use no less than 3 gallons per 2000 sq. ft., can dilute and treat up to 5 gallons per 2000 sq. ft. for dense foliage
	High	¾ fl. oz.	3	
Shrubs	Low	½ fl. oz.	3	
	High	¾ fl. oz.	3	
Roses	--	¼ fl. oz.	2	Use no less than 2 gallons per 2000 sq. ft., can dilute and treat up to 4 gallons per 2000 sq. ft. for dense foliage
	--	--	--	
Other ornamental plants	--	1/8 fl. oz.	2	Use no less than 2 gallons per 2000 sq. ft., can dilute and treat up to 4 gallons per 2000 sq. ft. for dense foliage

Large Treated Areas (acres) Mix LN 1% PY as directed, spray volumes will treat 1 acre. Use sufficient volumes to ensure thorough foliage coverage.

Crops	Application Rate	LN 1% PY per Acre	Spray Volume (gallons)	Use Directions
Trees	Low	7 fl. oz.	50	Use no less than 50 gallons per acre, can dilute and treat up to 100 gallons per acre when treating very large canopies
	High	12 fl. oz.	50	
Shrubs	Low	7 fl. oz.	50	
	High	12 fl. oz.	50	
Roses	Low	5 ¼ fl. oz.	50	Use no less than 40 gallons per acre, can dilute and treat up to 80 gallons per acre for dense foliage
	High	6 ½ fl. oz.	50	
Other ornamental plants	--	3 fl. oz.	50	

POULTRY [AND LIVESTOCK] SPRAY

[For use in animal housing facilities, [poultry houses], [cattle, sheep, hogs, goat and dairy facilities, horse stables].]

Pest pressure determines retreatment need.

Do not apply when food, feed and/or water is present. Prior to spray, cover or remove food. Cover food processing surfaces or clean after treatment and before use. Do not apply more than one time per day.

To Control Arthropod Pests on Poultry and in Poultry Houses:

FOR TREATMENT IN POULTRY HOUSES: dilute 1 part of LN 1% PY with 100 parts of water (1 ¼ fl. oz. per gallon) and apply as a mist (medium droplet size) to immediate surroundings of poultry houses to control insects: beetles, chicken (red) mites, scaly leg mite and depluming mite. [Thoroughly apply spray to roosts, walls and nests or cages.] Apply to premises [indoors and outdoors] where arthropod pests may be harboring at a rate of 5 gallons per 2000 square feet.

[Optional Table:

Application rates for poultry house sprays]

Poultry House Spray Mix LN 1% PY as directed. Spray volumes will treat 2000 sq. ft. Use sufficient volumes to ensure coverage.			
Use	LN 1% PY	Spray Volume (gallons)	Use Directions
Poultry Houses	1 ¼ fl. oz.	1 gallon	Apply at a rate of 5 gallons per 2000 sq. ft.

FOR TREATMENT ON POULTRY AS A DIRECT SPRAY: Dilute 1 part of LN 1% PY with 150 parts of water (1 fl. oz. per gallon) and apply solution directly to birds at a rate of 1 gal per 25 birds (5 fl. oz. per bird). To control insects: poultry lice, chicken (red) mites, scaly leg mite and depluming mite, spray the birds directly. For poultry lice concentrate spray to penetrate feathers under the wing. For scaly leg mite, focus sprays directly on poultry legs and feet.

[Optional Table:

Application rates for poultry sprays

Poultry Spray Mix LN 1% PY as directed, spray volumes will treat 25 birds.			
Use	LN 1% PY	Spray Volume	Use Directions
Poultry	1 fl. oz.	1 gallon	Using the appropriate dilution listed in table, apply at a rate of 1 gallon dilute spray per 25 birds.

TO CONTROL NORTHERN FOWL MITE: For maximum control, apply a 0.6% concentration of LN 1% PY (3/4 fl. oz. per gallon) at a rate of 5 fl. oz. of solution per bird using a tank sprayer with a hand-held wand. Penetrate the feathers around the vent with spray application focused on the vent (cloaca) area of the bird. Use power sprayer at no less than 120-125 psi. More attention must be given to individual birds when using low-pressure equipment. Repeat when necessary.

To Control Biting and Sucking Lice on Livestock: Dilute 1 part of LN 1% PY with 100 parts of water (1 ¼ fl. oz. per gallon) and apply as a mist (medium droplet size) to animals to control biting and sucking lice on cattle, horses, sheep, goats, and hogs. Spray thoroughly to wet the hair of the animal including the head and brush of the tail. Repeat applications in 10 days to kill newly hatched lice. Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.

[Optional Table:

Application rates for livestock sprays]

Livestock Spray Mix LN 1% PY as directed, adjust spray volumes to thoroughly wet the area being treated.			
Use	LN 1% PY	Spray Volume	Use Directions
Livestock	1 ¼ fl. oz.	1 gallon	Using the appropriate dilution listed in table, apply to thoroughly wet the area being treated.

{Note to reviewer: Uses for Agricultural Production}

GROWING CROPS (OUTDOORS AND INDOORS e.g. GREENHOUSE, MUSHROOM HOUSE)

General Precautions and Restrictions for use on growing crops:

Used in Combination with other Insecticides: LN 1% PY may be combined with other insecticides and acaricides where resistance may be a problem. The application must conform to the accepted use restrictions and directions for both products.

Prior to tank mixing, a compatibility test should be conducted using the proper proportions of chemicals and water to ensure the physical compatibility of the mixture.

LN 1% PY should not be used in combination with or closely following the fungicide Captan applications due to foliage injury risk.

For food crops growing outdoors in agricultural setting:

- [Pest pressure determines retreatment need.]
- Do not apply more than 10 times per season.
- Re-apply at intervals of 5-7 days as needed. Following the third consecutive application, reapply after a minimum of 14 days.
- Do not harvest until spray has dried.
- Do not wet plants to the point of runoff or drip.
- Buffer spray water to pH range of 4.0-7.5.
- Apply by ground **only**; Do not apply by air

For food crops growing indoors:

- Do not apply more than 10 times per season.
- Re-apply at intervals of 5-7 days as needed. Following the third consecutive application, reapply after a minimum of 14 days.
- Do not harvest until spray has dried.
- Do not wet plants to the point of runoff or drip.

[OPTIONAL PEST LIST 1]

Kills Insects:

Ants*, Aphids, Apple Maggots, Armyworms, Artichoke Plume Moths, Asparagus Beetles, Bagworms, Bean Beetles, Beet Armyworms, Blister Beetles, Boll Weevils, Cabbage Loopers, Cankerworms, Carrot Weevils, Caterpillars, Chinch bugs, Clover Mites, Clover Weevils, Codling Moths, Colorado Potato Beetles, Corn Earworms, Crane Flies, Crickets, Cross-striped Cabbageworms, Cucumber Beetles, 12-spotted Cucumber Beetles, Cutworms, Diamondback Moth Larvae, Earwigs, Eastern Tent Caterpillars, Elm Leaf Beetles, European Corn Borers, European Pine Tip Moths, Fall Webworms, Firebrats, Fireworms, Flea Beetles, Forest Tent Caterpillars, Fruit Flies, Fruit tree Leafrollers, Fungus Gnats, Grain Mites, Other Mites, Grape Leafhoppers, Grapeleaf Skeletonizers, Grasshoppers, Green Fruitworms, Green Peach Aphids, Greenhouse Thrips, Gypsy Moths (adults & larvae), Harlequin Bugs, Heliothis sp., Hornworms, Imported Cabbageworms, Indian Meal Moths, Japanese Beetles, Katydid, Lace Bugs, Leafhoppers, Leafrollers, Leaf-tiers, Loopers, Lygus, Mealybugs, Mediterranean Flour Moths, Mexican Bean Beetles, Millipedes, Mites (Spider and Russet), Mushroom Flies, Navel Orangeworms, Onion Maggots, Pear Psylla, Phorid Flies, Plant bugs, Potato Leafhoppers, Psyllids, Red Cinnamon Mites, Rice Weevils, Sawtoothed Grain Beetles, Scale insects, Sciarid Flies, Silverfish, Skippers, Sowbugs, Spiders*, Stink Bugs, Tarnished Plant Bugs, Thrips, Tobacco bud worm, Tobacco flea beetle, Tobacco hornworm, Tomato hornworms, Vinegar flies, Webworms, and Whiteflies.

*Does not include public health pests such as fire, harvester, carpenter and pharaoh ants, or black widow, brown recluse or hobo spiders.

[OPTIONAL PEST LIST 2]

Kills Insects:

- **Mites**, including: Two-Spotted Spider mite (*Tetranychus urticae* and other *Tetranychus* sp.), Broad mite (*Polyphagotarsonemus latus*), Citrus budmite (*Eriophyes pallidus*), Rust mite (*Phyllocoptruta* sp., *Epitrimerus* sp., and *Aculus* sp.) and European red mite (*Panonychus ulmi*)
- **Caterpillars**, including early instar caterpillars: Beet armyworm (*Spodoptera exigua*), Cabbage looper (*Trichoplusia ni*), Soybean looper (*Pseudoplusia includens*)
- **Thrips**, including: Immature stage of Chili thrips (*Scirtothrips dorsalis* Hood), Western Flower thrips (*Frankliniella occidentalis*)
- **Hemipteran pests**
 - **Whiteflies**, including: subfamilies Aleyrodinae and Aleurodicinae, (e.g., greenhouse whitefly (*Trialeurodes vaporariorum*))
 - **Aphids**, including: Green peach aphid (*Myzus persicae*), Melon/cotton aphid, (*Aphis gossypii*), Foxglove aphid (*Aulacorthum solani*), Root aphid (*Pemphigus* spp.)
 - **Mealybugs** family Pseudococcidae, including: longtailed mealybug, citrus mealybug, mexican mealybug
 - **Scale insects**, super family Coccoidea, armored and soft scale insects including: Boissduval Scale, Fern Scale, Brown Soft Scale, Hemispherical Scale and Tessellated Scale

Mushroom Houses: Apply to the casing soil at a rate of 13 ¼ fl. oz. per 8000 square feet with a suitable amount of water to evenly spread across room (typically 13 ¼ fl. oz. mixed in to 25 to 50 gallons water). Application can be made directly to casing soil using a water pump and watering nozzle. Timing of application can be from day zero of casing until the formation of mushroom pinheads. May be applied up to 2 times during case hold, with a 4 day interval between applications. Maintain water PH of 5 to 6.

Indoor e.g. Greenhouse Foliar Applications: Refer the application table[s] below for application rates for each crop [grouping]. If necessary, reapply to maintain pest suppression thresholds. The reapplication interval should be no less than 5-7 days. Apply using sufficient volumes to insure thorough coverage of upper and lower leaf surfaces unless otherwise noted.

Outdoor Foliar Applications: Refer to the application tables below for specific application rates for each crop [grouping]. Typically, the dilute product is applied at a rate of 55-80 gallons per acre. Repeat applications if required (within 5-7 days) to maintain effective kill. Use in sufficient water for thorough coverage of upper and lower leaf surfaces unless otherwise noted. However, application rates can vary according to specific application equipment and plant size.

LN 1% PY Indoor Application Rate Chart for Specific Crops

Indoor e.g. Greenhouse Grown Small Treated Areas (square feet) Mix LN 1% PY as directed, spray volumes will treat 2000 sq. ft. Use sufficient volumes to ensure thorough foliage coverage.

Crops	Application Rate	LN 1% PY: per 2000 sq. ft.	Spray Volume (gallons)	Use Directions
Vegetables and Berries	Low	¼ fl. oz.	2	Use no less than 2 gallons per 2000 sq. ft., can dilute and treat up to 4 gallons per 2000 sq. ft. for dense foliage
	High	½ fl/oz.	2	
Cucumbers		¼ fl. oz.	2	
Tomatoes, Peppers	Low	1/8 fl. oz.	2	
	High	¼ fl. oz.	2	

Indoor e.g. Greenhouse Grown Large Treated Areas (acres) Mix LN 1% PY as directed, spray volumes will treat 1 acre. Use sufficient volumes to ensure thorough foliage coverage.

Crops	Application Rate	LN 1% PY per Acre	Spray Volume (gallons)	Use Directions
Vegetables, Fruits and Berries	Low	3 fl. oz.	50	Use no less than 40 gallons per acre, can dilute and treat up to 80 gallons per acre for dense foliage
	High	9 ½ fl. oz.	50	

LN 1% PY Outdoor Application Rate Chart for Specific Crops

Outdoor Large Treated Areas (acres) Mix LN 1% PY as directed, spray volumes will treat 1 acre. Use sufficient volumes to ensure thorough foliage coverage.

Crops	Application Rate	LN 1% PY per Acre	Spray Volume (gallons)	Use Directions
Fruit trees (excluding pear), tree nuts, small fruits and berries	Low	10 fl. oz.	50	Use no less than 50 gallons per acre, can dilute and treat up to 100 gallons per acre when treating very large canopies
	High	12 fl. oz.	50	
Pears during growing season (Due to a risk of young leaf injury – avoid spraying in spring until about 2-3 weeks after flowering)	--	8 1/2 fl. oz.	50	Use no less than 50 gallons per acre, can dilute and treat up to 63 gallons per acre when treating very large canopies
	Low	6 ½ fl. oz.	50	

Vegetables, all (excluding tomatoes, peppers, cucumbers, melons, aubergines)	High	9 ½ fl. oz.		Use no less than 50 gallons per acre, can dilute and treat up to 63 gallons per acre when treating very large canopies
Tomatoes, peppers	Low	3 fl. oz.		
	High	4 ½ fl. oz.		
Cucumbers, Melons, Aubergines	Low	6 ½ fl. oz.		
	High	7 ¾ fl. oz.		
Cereal grains (all)	--	7 fl. oz.	30	Use no less than 30 gallons per acre, can dilute and treat up to 37 gallons per acre when treating very large canopies
Dormant Spray used on overwintering pests of fruit trees	--	17 ¼ fl. oz.	50	Use no less than 50 gallons per acre, can dilute and treat up to 100 gallons per acre when treating very large canopies
Forage, Fodder and Straw of Cereal Grains Grasses for Seed, Forage, Fodder and Hay	Low	3 fl. oz.	50	Use no less than 40 gallons per acre, can dilute and treat up to 80 gallons per acre for dense foliage
Non-Grass Animal Feeds Herbs and Spices Tobacco Additional Crops	High	10 fl. oz.	50	

[BEGIN - OPTIONAL CROP GROUPING TEXT]

[Optional Table

Crops within each Crop Grouping

Root and Tuber Vegetables: Arracacha, Arrowroot, Purple Arrowroot, Japanese Artichoke, Jerusalem Artichoke, Garden Beets, Sugar Beets, Edible Burdock, Edible Canna, Carrots, Cassava (bitter or sweet), Celeriac (celery root), Chayote, Chervil (turnip-rooted), Chicory, Chufa, Dasheen, Ginger, Ginseng, Horseradish, Leren, Parsley (turnip-rooted), Parsnip, Potato, Radish, Japanese Radish (Daikon), Rutabaga, Salsify, Black Salsify, Spanish Salsify, Skirret, Sweet Potato, Tanier, Turmeric, Turnip, Yam (true), Yam Bean.

Leaves of Root and Tuber Vegetables: Garden Beet, Sugar Beet, Edible Burdock, Carrot, Cassava (bitter or sweet), Celeriac (celery root), Chervil (turnip-rooted), Chicory,

Dasheen (taro), Parsnip, Radish, Japanese Radish (Daikon), Rutabaga, Black Salsify, Sweet Potato, Tanier, Turnip, Yam (true).

Bulb Vegetables: (Allium spp.): Garlic, Great-headed Garlic, Leek, Onion (dry bulb and green), Onion, Welsh, Shallot.

Leafy Vegetables: Amaranth (Leafy Amaranth, Chinese Spinach, Tampala), Arugula, Cardoon, Celery, Chinese Celery, Celtuce, Chervil, Cilantro, Corn Salad, Chrysanthemum (edible leaved), Chrysanthemum (garland), Cress (garden, water), Upland Cress (yellow rocket, winter cress), Dandelion, Dock (sorrel), Endive (escarole), Fennel (Florence), Lettuce (head and leafy), Orach, Parsley, Purslane (garden & winter), Radicchio, Rhubarb, Spinach, Vine Spinach (Malabar, Indian), Spinach (New Zealand), Swiss Chard.

Brassica (Cole) Leafy Vegetables: Broccoli, Chinese Broccoli (Gai Lan), Broccoli raab (Rapini), Brussels Sprouts, Cabbage, Chinese Cabbage (Bok Choy), Chinese Cabbage (Napa), Chinese Mustard Cabbage (Gai Choy), Cauliflower, Cavalo broccolo, Collards, Kale, Kohlrabi, Mizuna, Mustard Greens, Mustard Spinach, Rape Greens.

Legume Vegetables (Succulent Or Dried): Adzuki Beans, Field Beans, Kidney Beans, Lima Beans, Moth Beans, Mung Beans, Navy Beans, Pinto Beans, Rice Beans, Runner Beans, Snap Beans, Tepary Beans, Urd Beans, Wax Beans, Asparagus Beans, Blackeyed Peas, Catjang, Chinese Longbeans, Cowpeas, Crowder Peas, Southern Peas, Yardlong Beans, Broad Beans (Fava Beans), Chickpeas (Garbanzo Beans), Guar, Jackbean (Sword Bean), Lablab Bean (Hyacinth Bean), Lentils, Peas (Edible Pod Pea, Garden Peas, Field Peas, Sugar Snap Peas, English Pea, Snow Pea), Pigeon Peas, Soybeans, Sweet Lupin Beans, White Lupin Beans, White Sweet Lupin, Sword Bean.

Foliage of Legume Vegetables: Plant parts of any legume vegetable included in the legume vegetable group that will be used as animal feed including any variety of Beans, Field Peas, Soybeans.

Fruiting Vegetables: Eggplant, Ground Cherry, Okra, Pepino, Pepper (Bell Pepper, Chili Peppers, Cooking Peppers, Pimentos, Sweet Peppers), Tomatillo, Tomato.

Cucurbit Vegetables: Balsam Apple, Balsam Pear (Bitter Melon), Chayote, Chinese Waxgourd (Chinese preserving melon), Chinese Cucumber, Citron Melon, Cucumber, Gherkin, Edible Gourds, Muskmelons (including hybrids, Cantaloupe, Casaba, Crenshaw, Golden Pershaw Melon, Honeydew Melons, Honey Balls, Mango Melon, Muskmelon, Persian Melon, Pineapple Melon, Santa Claus Melon, Snake Melon), Pumpkin, Squash (summer & winter), Watermelon (including hybrids).

Citrus Fruits: Calamondin, Citrus Citron, Citrus Hybrids, Grapefruit, Kumquats, Lemons, Limes, Mandarin (Tangerine), Orange (sweet & sour), Pummelo, Satsuma Mandarin (Citrus spp. includes Chironja, Tangelos, Tangors).

Pome Fruits: Apple, Crab Apple, Loquat, Mayhaw, Pear, Oriental Pear, Quince.

Stone Fruits: Apricot, Cherry (sweet & sour), Nectarine, Peach, Plum, Prune, Chickasaw Plum, Damson Plum, Japanese Plum, Plumcot.

Small Fruits and Berries: Blackberry, Blueberry, Cranberry, Currant, Dewberry, Elderberry, Gooseberry, Grape, Huckleberry, Loganberry, Olallieberry, Raspberry (black & red), Strawberry, Youngberry.

Tree Nuts: Almond, Beech Nut, Brazil Nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia Nut (Bush Nut), Pecan, Pistachio, Walnut, Black and English (Persian).

Oriental Vegetables: Acerola, Atemoya, Balsam Pear (bitter melon), Carambola, Chinese Broccoli (Gai Lan), Chinese Cabbage (Bok Choy, Napa), Chinese Longbeans, Chinese Mustard Cabbage (Gai Choy), Chinese Spinach, Chinese Waxgourd, Cilantro, Citron Melon, Dasheen, Ginger, Ginseng, Japanese Artichoke, Japanese Radish (Daikon), Mung Beans, Rambutan, Water Chestnuts.

Subtropical Fruits: Avocado, Banana, Carob, Barbados Cherry, Cherimoya, Dates, Durian (Jackfruit), Feijoa, Figs, Guava, Kiwifruit, Lychee, Mango, Papaya, Passion Fruit, Paw Paw, Persimmon, Pineapple, Pomegranate.

Herbs and Spices: Allspice, Angelica, Anise (Anise seed), Annatto, Balm, Basil, Black Caraway, Borage, Burnet, Caper Buds, Caraway, Cardamom, Cassia bark, Cassia buds, Catnip, Celery Seed, Chamomile, Chervil dried, Chives, Chinese Chive, Clary, Clove Buds, Coriander (cilantro or Chinese parsley leaf), Coriander (cilantro seed), Costmary, Cilantro, Cumin, Curry Leaf, Dill (dill weed), Dill (seed), Fennel (Italian and Sweet), Fenugreek, Grains of Paradise, Horehound, Hyssop, Juniper berry, Lavender, Lemongrass, Lovage (leaf & seed), Mace, Marigold, Sweet Marjoram, Wild Marjoram, Mustard (seed), Nasturtium, Nutmeg, Parsley, Oregano, Mint, Paprika, Parsley, Pennyroyal, Pepper (black & white), Poppy seed, Rosemary, Rue, Saffron, Sage, Savory, Summer and Winter Savory, Sweet Bay (Bay Leaf), Tansy, Tarragon, Thyme, Vanilla, Wintergreen, Woodruff, Wormwood.

Additional Crops: Artichoke, Asparagus, Avocado, Coffee, Cotton, Hops, Jojoba, Mushroom, Okra, Peanuts, Pineapple, Safflowers, Sesame, Sugarcane, Sunflowers, Tea, Tobacco.

Cereal Grains: Barley, Buckwheat, Corn (sweet and field), Millet, Proso, Oats, Pearl, Popcorn, Rice, Rye, Sorghum (Milo), Teosinte, Triticale, Wheat, Wild Rice.

Forage, Fodder and Straw of Cereal Grains: Barley, Buckwheat, Corn (sweet and field), Millet, Proso, Oats, Pearl, Popcorn, Rice, Rye, Sorghum (milo), Teosinte, Triticale, Wheat, Wild Rice.

Grasses for Seed, Forage, Fodder and Hay: Any grass, Gramineal family (green or cured) except sugarcane and those listed in the cereal grains group that will be fed to or grazed by livestock, all pasture and range grasses and grasses grown for hay or silage, Bermudagrass, Bluegrass, Bromegrass, Fescue.

Non-Grass Animal Feeds: Alfalfa, Velvet Bean, Clover, Kudzu, Lespedeza, Lupin, Sainfoin, Trefoil, Crown Vetch, Milk Vetch.

[END - OPTIONAL CROP GROUPING TEXT]

{Note to reviewer: Non-Agriculture Use}

TURF GRASS

Turf Grass including Lawns and Golf Course Tees, Greens, Fairways and Roughs:
Used to Control Insect Pests on Golf Courses and Lawns in Landscaped Areas Around Residential, Institutional, Public, Commercial and Industrial Buildings, Parks, Recreational Areas and Athletic Fields.

Apply LN 1% PY to control the following insects:

For control of accessible, exposed stages of Annual bluegrass weevil, Ants*, Armyworms, Crickets, Cutworms, Earwigs, Grasshoppers, Japanese beetles (adult), Millipedes, Mites, Pillbugs, Sod webworms, Sow bugs, Bluegrass billbug (adult), Chinch bugs, Black turfgrass atenioides (adult), Chiggers.

*Does not include public health pests such as fire, harvester, carpenter and pharaoh ants.

For turf grass, combine 7.0 fl. oz. of LN 1% PY with 32 gallons of water (equivalent to 2 teaspoons of LN 1% PY with 1.5 gallons of water). Apply the dilute mix at a rate no less than 32 gallons per acre (equivalent to 1.5 gallons per 2000 square feet) with conventional hydraulic sprayers or compressed air sprayers.

[Optional Table

Application rates for turf grass]

Small Treated Areas (square feet) Mix LN 1% PY as directed, spray volumes will treat 2000 sq. ft. Use sufficient volumes to ensure thorough foliage coverage.				
Crop	Application Rate	LN 1% PY: per 2000 sq. ft.	Spray Volume (gallons)	Use Directions
Turf grass	--	½ fl. oz.	2	Use no less than 2 gallons per 2000 sq. ft
Large Treated Areas (acres) Mix LN 1% PY as directed, spray volumes will treat 1 acre. Use sufficient volumes to ensure thorough foliage coverage.				

Crop	Application Rate	Fl. oz. of LN 1% PY/ Acre	Spray Volume (gallons)	Use Directions
Turf grass	--	7 ¾ fl. oz.	35	Use no less than 32 gallons per acre

Apply directly to pest.

Re-apply 1-2 times at intervals of 7-10 days as needed.

Pest habits and level of pest pressure determine retreatment need.

USE IN FOOD HANDLING ESTABLISHMENTS

Applications are permitted in food/feed areas of food/feed handling establishments as a contact spray, space spray or treatment of cracks and voids including those operating under the Federal meat, poultry, shell egg grading and egg products inspection programs.

Food handling establishments are places other than private residences in which food is held, processed, prepared or served.

FOOD AREAS: Include areas for receiving, serving, storing (dry, cold, frozen, raw), packing (canning, bottling, wrapping, boxing), preparing (cleaning, slicing, cooking, grinding) edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups, extraction and pelleting)

NON-FOOD AREAS: Include areas such as garbage containment, lavatories, floor drains, entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, closets and storage areas.

Apply according to specific directions for pests to be treated under the Indoor Use section below. Prior to space spray applications, remove or cover exposed food and drinking water in the treatment areas. Remove or cover dishes, utensils, food processing equipment, and food preparation surfaces, in the treatment areas, or wash them before use.

PREMISE SPRAYS (Indoor and Outdoor):

Where to Use:

INDOOR: kitchens, bathrooms, basements, garages and laundry rooms as a contact insect killer. Remove pets and birds and cover fish aquariums before application. [Apply to insects in: openings leading to voids and hollow spaces in floors, walls, ceilings, equipment legs and bases, around plumbing pipes, doors and windows, and behind and under appliances and cabinets where insects are typically known to be present.]

OUTDOOR: Use as an outdoor perimeter spray. Apply to insects outdoors at pest entry sites: along windows and doors, sewer areas, adjacent trees that harbor insects, utility entry points, along walls, garbage holding areas, and other locations that serve as harborage for insects. Avoid direct spray onto evergreens, bedding plants, perennials and non-dormant deciduous trees and shrubs at rates higher than 0.1% concentration.

[For use in homes and residential areas, institutional, warehousing and commercial establishments: warehouses, restaurants, food processing plants (meat or vegetable processing plants or canneries), supermarkets (non-public areas), hospitals, laboratories, computer facilities, sewers, animal housing facilities (poultry houses, cattle, sheep, swine, goat and dairy facilities, horse stables, dog kennels). Miscellaneous areas: garbage rooms, lavatories, entries, and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling).]

Pest pressure determines retreatment need. To ensure maximum control of listed insects, spray insects thoroughly.

Crawling and Flying Insects:

Direct spray applications will control insects:

Ants*, Blister Beetles, Caterpillars, Crickets, Earwigs, Firebrats, Fireworms, Flea Beetles, Grasshoppers, Leaf-tiers, Lygus Mealy Bugs, Millipedes, Psyllids, Silverfish, Sowbugs, Stink Bugs, Spiders*, Webworms, Crane Flies, Fungus Gnats, Fruit Flies, Gnats, Japanese Beetle, Katydid, Leafhopper, Leafrollers, Loopers, Mushroom Flies, Skippers, Small Flying Moths, Vinegar Flies, Whiteflies. Repeat application as necessary.

*Does not include public health pests such as fire, harvester, carpenter and pharaoh ants, or black widow, brown recluse or hobo spiders.

Avoid direct spray application to live plants with concentrations greater than 0.1%

Application rates for premise sprays

Indoor/Premise Treated Areas (square feet) Mix LN 1% PY as directed, Apply at a rate of 2 gallons per 2000 sq. ft. In the case of severe infestations apply at a rate of 4 gallons per 2000 sq. ft. Use sufficient volume to ensure coverage				
Use	Concentration (%)		Concentration (fl. oz. per TWO gallons)	
	Low	High	Low	High
Ants	1%	4%	2 ½ fl. oz	10 fl. oz.
Spiders	2%	4%	5 fl. oz.	10 fl. oz.

Stored Product Pests	1%	4%	2 ½ fl. oz	10 fl. oz.
Other Crawling and Flying Insects	1%	4%	2 ½ fl. oz	10 fl. oz.
When tank-mixing with other insecticides	0.1%	0.4%	¼ fl. oz.	1 fl. oz.

Outdoor/Premise Treated Areas (square feet) Mix LN 1% PY as directed, spray volumes will treat 2000 sq. ft. Use sufficient volumes to ensure coverage.				
Use	Application Rate	LN 1% PY: per 2000 sq. ft.	Spray Volume (gallons)	Use Directions
Premise	Low	2 fl. oz.	2	Apply at a rate of 2 gallons per 2000 sq. ft. In case of severe infestations apply at a rate of 4 gallons per 2000 sq. ft.
	High	4 fl. oz.	2	

SURFACE SPRAY IN FOOD/FEED PROCESSING, PRODUCTION, AND STORAGE SITES

Contact Spray - for Use with Sprayers that Give Large, Wetting Spray Particles to Kill Accessible Stages of Indoor Pests and Granary Insects: Ants*, Drugstore Beetles, Earwigs, Beetles, Boxelder Bugs, Clover Mites, Cadelles, Confused Flour Beetles, Fungus Gnats, Grain Mites, Granary Weevils, Meal Moth Larvae and Adults, Phorid Flies, Red Flour Beetles, Rice Weevils Sciarid Flies, and Saw-toothed Grain Beetles and other listed insects.

*Does not include public health pests such as fire, harvester, carpenter and pharaoh ants, or black widow, brown recluse or hobo spiders.

Dilute using 1 part of LN 1% PY to 100 parts water (1 ¼ fl. oz. per gallon) and apply at a rate of 2.5 gallons per 2000 square feet. Cover or remove exposed food and close room. Spray outside walls of grain bins, flooring, about base of milling machinery, walls and baseboards, areas behind cabinets and around pipes, and other insect harborages apply as a coarse wetting spray using approximately 2.5 gallons of spray mixture per 2000 square feet of surface. In case of severe infestation, spray at the rate of 5 gallons per 2000 square feet. To ensure maximum control of listed insects, spray insects thoroughly. Repeat as necessary.

Stored Food: (Stored in multi-wall bags or cloth bags) in flour mills, grain elevators, granaries, storage rooms, and warehouses for control of Angoumois Grain Moths,

Cadelles, Cheese Mites, Cheese Weevils, Cigarette Beetles, Confused Flour Beetles, Dark Mealworms, Grain Mites, Granary Weevils, Indian Meal Moths, Mediterranean Flour Moths, Red Flour Beetles, Rice Weevils, Saw-toothed Grain Beetles and Yellow Mealworms: Remove and destroy infested products. Dilute concentrate with water at the rate of 1 part of LN 1% PY to 100 parts water (1 ¼ fl. oz. per gallon) and mix well. Apply this product as a coarse wetting spray using approximately 2.5 gallons per 2000 square feet. In case of severe infestation, spray at the rate of 5 gallons per 2000 square feet. Disperse this product first by directing spray into corners, under pallets and around stacks of packaged foods, contacting as many insects as possible.

Zoos: As a direct spray, dilute for use in conventional sprayers equipment to kill flying and crawling insects and small flying moths: Dilute concentrate with water at the rate of 1 part of LN 1% PY to 100 parts water (1 ¼ fl. oz. per gallon) and mix well. Apply this product as a coarse wetting spray using approximately 2.5 gallons per 2000 square feet. In case of severe infestation, spray at the rate of 5 gallons per 2000 square feet. Apply to premise (indoors and outdoors) when animals are not present.

Federally Inspected Meat and Poultry Plants: Dilute one part concentrate with 100 parts water (1 ¼ fl. oz. per gallon) and spray at the rate of 2.5 gallon per 2000 square feet. In case of severe infestation, spray at the rate of 5 gallons per 2000 square feet. Apply the spray into all cracks and crevices in woodwork, walls, floors, underneath sinks, behind pipes and in all places where these insects shelter. Contact as many insects as possible. Repeat as necessary for control of exposed or accessible stages of Ants*, Darkling Beetles, Earwigs, Fruit Flies, Gnats, Silverfish, Small Flying Moths, Spiders*.

*Does not include public health pests such as fire, harvester, carpenter and pharaoh ants, or black widow, brown recluse or hobo spiders.

Before spraying, exposed food products and packaging materials must be covered or removed. After spraying, equipment and utensils must be washed with an effective cleaning compound and rinsed with potable water prior to use. Use as a space spray only when plant is not in operation.

Use as a Surface Spray in Restaurants, Food Processing Plants, Industrial Installations and Warehouses: To kill accessible, exposed stages of insects including, Ants*, Cadelles, Cigarette Beetles, Confused Flour Beetles, Dark Mealworms, Dried fruit Beetles, Drugstore Beetles, Grain Mites, Red Flour Beetles, Rice Weevils, Sawtoothed Grain Beetles, Spider Beetles, Yellow Mealworms.

*Does not include public health pests such as fire, harvester, carpenter and pharaoh ants.

Dilute one part concentrate with 100 parts water (1 ¼ fl. oz. per gallon) and spray at the rate of 2.5 gallons per 2000 square feet. In case of severe infestation, and spray at the rate of 5 gallons per 2000 square feet.

Pay special attention to force the spray into all cracks and crevices.

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store in original container. Keep away from open flame, sparks, heated surfaces, and avoid excessive heat (>130°F). Store in a cool, dry place inaccessible to children and pets.

CONTAINER HANDLING: DO NOT puncture or incinerate! Empty container by using the product according to the label directions. Non-refillable container. **When empty:** 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 the flow begins to drip. Repeat this procedure two more times. Then offer container for recycling, if available, or place in trash if allowed by state and local regulations.

PESTICIDE DISPOSAL

If partly filled: Call your local solid waste agency for disposal instructions.

[WARRANTY]

[Read the entire Directions for Use and Warranty before using this product. By using this product, user or buyer accepts the following warranty. The directions for use of this product are believed to adequate and must be followed carefully. It is impossible to eliminate all risks associated with the use of this product. Unintended consequences may result because of unknown factors. All such risks shall be assumed by the user or buyer. The seller is committed to providing high quality products. To the extent consistent with applicable law, the seller makes no warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond statements on this label. To the extent consistent with applicable law, the manufacturer or the seller shall not be liable for indirect, special, incidental or consequential damages. To the extent consistent with applicable law, the exclusive remedy of the user or buyer shall not exceed the purchase price paid.]

[In Case of Emergency, call: 1-xxx-xxx-xxxx]

[Made in USA]

[Non-Emergency call: 1-xxx-xxx-xxxx]

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Patent Pending

[Optional Label Claims]

[Advanced Application Technology]

[Advanced 3D-IPNS Application Technology]

[Contains 3D-IPNS]

[3D-IPNS Application Technology]

[3D-IPNS application technology improves the contact between the insect and insecticide]

[3D-IPNS application technology increases the contact between the insect and insecticide]

[3D-IPNS application technology helps keep insect in treated zone]

[3D-IPNS]

[Formulated for effectiveness]

[Delivers the insecticide to the pest]

[Formulated with 3D-IPNS Application Technology]

[3-dimensional application technology]

[3D-IPNS Technology]

[Designed to deliver the insecticide to the [pest][insect]]

[Enhances the exposure profile of the treated species]

[Unique formulation improves the coverage and contact of other insecticides that are mixed with this product]

[Use up to Day Before Harvest]

[For use on Ornamentals, Fruits and Flowers]