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

PERMETHRIN

ACTIVE INGREDIENT:
*Permethrin** ........................................... 38.4%
INERT INGREDIENTS:** .................. 61.6%
100.0%

*(3-Phenoxyphenoxy)methyl (2) cis-trans 3-(2,2-dichloroethenyl)-2,2-
dimethylcyclopropanecarboxylate
**cis/trans ratio: Max. 55% (a) cis and min. 45% (a) trans
***Contains xylene range aromatic solvents.

Contains 3.2 pounds permethrin per gallon.
U.S. Patent No. 4,024,163

KEEP OUT OF REACH OF CHILDREN

CAUTION
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.)

FIRST AID

If Inhaled: 
- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- 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 eye open and rinse slowly and gently with water for 15 - 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

If Swallowed:
- Call a poison control center or doctor immediately for treatment advice.
- Do not give any liquid to the person.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

Personal Protective Equipment (PPE):
Some materials that are chemical-resistant to this product are barrier laminate or viton. If you want more options, follow the instructions for category G on an EPA chemical-resistance category selection chart.

Applicators using ULV cold foggers or fog/mist generators in indoor spaces must wear:
- Coveralls over long-sleeved shirt and long pants,
- Chemical-resistant gloves,
- Chemical resistant footwear plus socks, and
- Chemical-resistant headgear, if overhead exposure.

Do not apply this product using ULV cold foggers or fog/mist generators in outdoor areas.

All other mixers, loaders, applicators, and handlers must wear:
- Long-sleeve shirt and long pants,
- Shoes plus socks,
- Chemical-resistant gloves for all handlers except for applicators using motorized ground equipment, pilots, and flaggers,
- Chemical-resistant apron for mixers/loaders, persons cleaning equipment, and persons exposed to the concentrate.

See engineering controls for additional requirements.

User Safety Requirements:
Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.
Discard clothing and other absorbent materials that have been drenched (except as required by directions for use) or heavily contaminated with this product's concentrate. Do not reuse them.

Engineering Controls:
Pilots must use an enclosed cockpit that meet the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

USER SAFETY RECOMMENDATIONS
Users should:
- Wash hands with plenty of soap and water before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS
This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash waters.

Under some conditions, it may also have a potential for transport into surface water in runoff (primarily adsorbed to suspended soil particles) for several months or more after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, and areas overlying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-lying tide drainage systems that drain to surface waters.

This pesticide 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.

PHYSICAL/CHEMICAL HAZARDS
Do not use or store near heat or open flame.

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

If Swallowed:
- Do not give anything by mouth to an unconscious person.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give any liquid to the person.

If in Eyes:
- Hold eye open and rinse slowly and gently with water for 15 - 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

If on Skin or Clothing:
- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 - 20 minutes.
- Call a poison control center or doctor for further treatment advice.

If Inhaled:
- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

If Inhaling:
- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.

Note to Physician: Vomiting should be supervised by a physician or the professional staff because of the possible pulmonary damages by aspiration of the solvent.

See other panels for additional precautionary information.

EPA REG. NO. 34704-873
EPA EST. NO. 279-FL-001
NET CONTENTS 1 GAL. (3.78 KG.)

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)
CAUTION
Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling.
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DIRECTIONS FOR USE
RESTRICTED USE PESTICIDE

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

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 agricultural 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 resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

BUFFER ZONES:
Vegetative Buffer Strip
Construct and maintain a minimum 10-foot-wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing PERMETHRIN onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.


Buffer Zone for Ground Application (groundboom, overhead chemigation, or airlift).
Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for ULV Aerial Application:
Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for Non-ULV Aerial Application:
Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Spray Drift Requirements:
Wind Direction and Speed
Only apply this product if the wind direction favors on-target deposition.

Do not apply when the wind velocity exceeds 15 mph.

Temperature Inversion
Do not make aerial or ground applications into temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

Droplet Size
Use only medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

Additional Requirements for Ground Applications
Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy.

For airlift applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

Additional Requirements for Aerial Applications
The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter.

Flight speed and nozzle orientation must be considered in determining droplet size.

Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upward.

Application Precautions and Restrictions:
Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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 the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:
- Coveralls,
- Shoes plus socks,
- Chemical-resistant gloves made of any waterproof material.

PROHIBITION - Harvesting of conifer seed cones is prohibited within 30 days of application.

CHEMIGATION USE DIRECTIONS

Apply this product only through sprinkler including center pivot, lateral move end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system. Crop injury, lack of effectiveness, or illegal residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Permethrin insecticide should be applied continuously for the duration of the water application. Permethrin should be diluted in sufficient volume to ensure accurate application of the area to be treated. When using chemigation, a minimum of 0.1 inch per acre of irrigation water is recommended. Agitation generally is not required when a suitable diluent is used. A diluent test should be conducted to ensure that phase separation will not occur during dilution and application. Failure to achieve a uniform dilution throughout the time of application may result in undesirable residues or less than desirable control.

COMMERCIAL IMPREGNATION AND APPLICATION OF PERMETHRIN ON DRY BULK FERTILIZERS

Permethrin insecticide may be impregnated on dry bulk fertilizers. When applied as directed, Permethrin/dry bulk fertilizer mixtures provide insect control equal to that provided by the same rates of Permethrin applied in water.

The Permethrin/fertilizer mixtures may be surface applied or shallow incorporated. The higher rate should be used if incorporation is used.
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Impregnation: Applying using a minimum of 200 pounds of dry bulk fertilizer per acre and up to a maximum of 450 pounds per acre with the recommended amount of Permethrin insecticide per acre. Use a closed rotary-drum mixer or a similar type of closed blander 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 absorbive capacity. When absorptivity is sufficient, simple spray impregnation of the fertilizer with Permethrin provides a satisfactory, dry mixture. If the absorptive capacity is inadequate, the use of a highly absorptive powder is required to provide a dry, flowable mixture. Microcel® E (World Minerals Corporation) is a recommended absorbent powder. Generally less than 2% by weight of Microcel E is required. DO NOT impregnate Permethrin 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 Permethrin.

The amount of Permethrin 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 Permethrin insecticide should be applied immediately, not stored.

All individual 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 Permethrin mixture.

APPLICATION INSTRUCTIONS

Unless otherwise directed by registered supplemental labeling, follow the Directions for Use in each crop group section.

Permethrin is a 3.2 pounds per gallon formulation of the insecticide permethrin. Apply Permethrin when insects appear or feeding is noticed. The higher rate should be used as pest populations increase. Repeat the application as necessary to maintain control. Permethrin may be applied by both ground and aerial equipment. Use sufficient water to obtain full coverage. With the exception of crops listed below, rotational crops should not be planted within 60 days of last application.

Not for use in outdoor residential misting systems.

This label must be in the possession of the user at the time of application.

Alfalfa: Alfalfa grown for seed (0 day phi)* (Includes lucerne, saffinoin, holy clover, esparket, birdfoot trefoil and varieties and/or hybrids of these)

<table>
<thead>
<tr>
<th>Insects Controlled</th>
<th>Rate of Application</th>
<th>Method of Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alfalfa Caterpillar, Armyworms, Blue Alfalfa Aphid, Cutworms, Green Cloverworm, Green Peach Aphid, Loopers, Pea Aphid, Spotted Alfalfa Aphid, Velvet bean Caterpillar, Weedworms</td>
<td>2 to 8 ounces (0.05 to 0.2 pound active) per acre</td>
<td>Use higher recommended dosage for increased pest pressure or for increased residual pest control. Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or 2 gallons of finished spray per acre by aircraft.</td>
</tr>
<tr>
<td>Alfalfa Weevil, Cucumber Beetle, Egyptian Alfalfa Weevil, Meadow Spittlebug, Plant Bugs (including Lygus spp.), Potato Leathopper, Stink Bugs</td>
<td>4 to 8 ounces (0.1 to 0.2 pound active) per acre</td>
<td></td>
</tr>
</tbody>
</table>

Maximum rate per application is 8 fl. oz. of product (0.2 lb. active)/Acre. Minimum Retreatment Interval is 30 days. Seasonal Maximum Application Rate is 8 fl. oz. of product (0.2 lb. active)/Acre per cutting. Do not apply to mixed stands with intentionally-grown forage grasses and/or legumes. * When rates greater than 0.1 pounds active per acre are used, do not apply within 14 days of harvest.

Almonds (7 day phi)

<table>
<thead>
<tr>
<th>Insects Controlled</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Navel Orangeworm, Peach Twig Borer</td>
<td>10 ounces (0.25 pound active) per acre</td>
<td>Apply when insects appear. Apply in a minimum of 15 gallons of finished spray per acre or 25-400 gallons of finished spray per acre with ground equipment.</td>
</tr>
<tr>
<td>Ants</td>
<td>10 ounces (0.25 pound active) per acre</td>
<td>Apply by ground equipment in a minimum of 15 gallons of finished spray per acre. Application should follow mowing of weed growth to insure maximum coverage of the soil surface. Overhead moisture following application will enhance activity.</td>
</tr>
</tbody>
</table>

Maximum rate per application is 10 fl. oz. of product (0.25 lb. active)/Acre.

Apples

<table>
<thead>
<tr>
<th>Insects Controlled</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Green Fruitworm, Oblique Banded Leafroller, Plum Curculio, Redbanded Leafroller, Rosy Apple Aphid, Spotted Tentiform, Leafminer, Tarnished Plant Bug, White Apple Leafhopper</td>
<td>4 to 10 ounces (0.1 to 0.25 pound active) per acre</td>
<td>Use with ground equipment only. Apply in 25-400 gallons of finished spray per acre when insects appear.</td>
</tr>
</tbody>
</table>

Maximum rate per application is 10 fl. oz. of product (0.25 lb. active)/Acre. Minimum Retreatment Interval is 10 days. Seasonal Maximum Application Rate is 30 fl. oz. of product (0.75 lb. active)/Acre per year.

Do not graze livestock in treated areas or feed cover crops from treated areas to livestock.

Asparagus (1 day phi)

<table>
<thead>
<tr>
<th>Insects Controlled</th>
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<tbody>
<tr>
<td>Asparagus Beetle, Cutworms</td>
<td>2 to 4 ounces (0.05 to 0.1 pound active) per acre</td>
<td>Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft.</td>
</tr>
<tr>
<td>Asparagus Beetle, Japanese Beetle (Adult stage)*, Lygus Bug, Tarnished Plant Bug</td>
<td>4 ounces (0.1 pound active) per acre</td>
<td>For post harvest application, apply to the fern stage of the asparagus plant after spear harvest when larval and adult stage are present.* Not for control of this insect in California.</td>
</tr>
</tbody>
</table>

Maximum rate per application is 4 fl. oz. of product (0.1 lb. active)/Acre. Minimum Retreatment Interval is 7 days. Seasonal Maximum Application Rate is 16 fl. oz. of product (0.4 lb. active)/Acre per year.

Avocado (7 day phi)

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<tr>
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</tr>
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<tbody>
<tr>
<td>Avocado Caterpillar, Avocado Lace Bug, Avocado Leafhopper, Avocado Leafroller, Avocado Looper, Avocado Tree Girder, Avocado Whitefly, Brown Soft Scale, Mirids, Omnivorous Looper, Orange Tortrix, Scale Crawlers, Spaworm, Thrips, Twig Borer</td>
<td>8 ounces (0.2 pound active) per acre</td>
<td>Apply with ground equipment in 25-400 gallons of finished spray per acre. Apply when insects first appear and repeat at 7 to 10 day intervals.</td>
</tr>
</tbody>
</table>

Maximum rate per application is 8 fl. oz. of product (0.2 lb. active)/Acre. Minimum Retreatment Interval is 7 days. Seasonal Maximum Application Rate is 32 fl. oz. of product (0.8 lb. active)/Acre per year.

Do not graze livestock in treated areas or feed cover crops from treated areas to livestock.

Artichoke (0 day phi)

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</tr>
</thead>
<tbody>
<tr>
<td>Artichoke Plum Moth, Leafminers</td>
<td>4 to 12 ounces (0.1 to 0.3 pound active) per acre</td>
<td>Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft.</td>
</tr>
</tbody>
</table>

Maximum rate per application is 12 fl. oz. of product (0.3 lb. active)/Acre. Minimum Retreatment Interval is 10 days. Seasonal Maximum Application Rate is 36 fl. oz. of product (0.9 lb. active)/Acre per year.
**Permethrin**  
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Broccoli, Chinese Broccoli (gai lon, white flowering broccoli); Brussels Sprout; Cauliflower; Cavolo broccoli; Kohlrabi (1 day phi)

**Insects Controlled**  
Armyworm spp., Cabbage Looper, Diamondback Moth, Import Cabbage-worm, Plant Bugs, Thrips, European Corn Borer, Sugar Beets, Western Corn Rootworm

**Rate of Application**  
2 to 4 ounces (0.05 to 0.2 pound active) per acre

**Method of Application**  
Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft.

**Minimum Retreatment Interval**  
5 days.

**Seasonal Maximum Application Rate**  
32 fl. oz. of product (0.8 lb. active)/acre per year.

**Brussels Sprout**

**Rate of Application**  
4 fl. oz. of product (0.1 lb. active)/acre per year.

**Maximum Rate per Application**  
8 fl. oz. of product (0.2 lb. active)/acre per year.

**Seasonal Maximum Application Rate**  
16 fl. oz. of product (0.4 lb. active)/acre per year.

**Minimum Retreatment Interval**  
5 days.

**Cabbage**

**Rate of Application**  
2 to 4 ounces (0.05 to 0.2 pound active) per acre

**Method of Application**  
Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft.

**Cabbage, Chinese (napa) (tight-heading varieties only) (1 day phi)**

**Insects Controlled**  
Cabbage Looper, Diamondback Moth, Import Cabbage-worm, Southern White Butterfly, Armyworm, Cabbage Looper, Cutworms, Flea Beetles

**Rate of Application**  
2 to 8 ounces (0.05 to 0.2 pound active) per acre

**Method of Application**  
Apply with ground equipment in a minimum of 2 gallons per acre by aircraft.

**Cantaloupes**

**General Restrictions:**

- Do not graze treated areas or feed crop refuse to livestock.
- **Suppression only.**

**Cellophane:** For general use directions refer to the Cucurbit Vegetables crop grouping.

**Cranberry, Florence fennel** (sweet anise, sweet fennel, finochio) (fresh leaves and leaf petioles only); For general use directions refer to the Leafy Vegetable crop grouping.

**Cherries** (includes Sweet Cherries and Tart Cherries) (3 day phi)

**Insects Controlled**  
Green Fruitworm, Lesser Peach Tree Borer, Plum Curculio, Redbanded Leafroller, Rose Chatter, Tarnished Plant Bug

**Rate of Application**  
4 to 8 ounces (0.1 to 0.2 pound active) per acre

**Method of Application**  
Use Permethrin insecticide as a dilute spray. Apply when insects appear. Apply with ground equipment in 25-400 gallons of finished spray per acre.

**Maximum Rate per Application**  
8 fl. oz. of product (0.2 lb. active)/acre per year.

**Seasonal Maximum Application Rate**  
24 fl. oz. of product in HI (0.6 lb. active)/acre per year.

**Chrysanthemums**

**Insects Controlled**  
Liriomyza leafminers, Flies

**Rate of Application**  
20 fluid ounces (0.5 pound active) per 100 gallons (1 teaspoon per gallon)

**Method of Application**  
Avoid spraying the blooms. Permethrin may be applied on a weekly schedule. Caution: Permethrin has demonstrated excellent plant safety, however, not all cultivars have been tested. Before treating large numbers of plants of a particular cultivar, treat a few plants and observe prior to full scale applications.

**Corn (Field), Field Corn Grown for Seed, Popcorn**

(0-day phi – Forage, 30-day phi – Grain and Fodder (Stover))

**General Restrictions:**

- Field Corn:
  - Maximum rate per application is 6 fl. oz. of product (0.15 lb. active)/acre.
  - Minimum Retreatment Interval is 7 days.
  - Seasonal Maximum Application Rate is 18 fl. oz. of product (0.45 lb. active)/acre per year.

**Insects Controlled**  
European Corn Borer, Fall Armyworm, Green Colderworm, Import Cabbage-worm, Leaffoppers, Late Armyworm, Southern Armyworm, Southern White Butterfly, Tobacco Budworm, Vegetable Leafminer, Aphids*

**Rate of Application**  
4 to 8 fluid ounces (0.1 to 0.2 pound active) per acre

**Method of Application**  
Apply with ground equipment in a minimum of 1 gallon of finished spray per acre or at 0.5 lb. active)/acre per year.

**Turnips** - Do not graze treated areas or feed crop refuse to livestock.

**Conifers (Container and Field Grown)**

**Insects Controlled**  
Nantucket Pine Tip Moth

**Rate of Application**  
4 to 8 fluid ounces (0.1 to 0.2 pound active) per acre

**Method of Application**  
Permethrin may be applied in a non-volatile vegetable oil or water in a minimum of 1 gallon of finished spray per acre using equipment calibrated to give adequate coverage. Begin application when the adults appear and repeat at 5 to 7 day intervals throughout the season.

**Cucurbit Vegetables**

**Insects Controlled**  
Wireworm*

**Rate of Application**  
0.3 to 0.6 linear feet per row (based on a 4” band and 40” row spacing)

**Method of Application**  
Provide constant agitation during application using a minimum 4” band and OR using sufficient spray volume to achieve adequate coverage.

**Rate of Application**  
4 to 8 fluid ounces (0.1 to 0.2 pound active) per acre or as a broadcast spray

**Method of Application**  
Permethrin may be applied as a broadcast spray by ground or air (minimum of 2 gallons finished spray per acre by air) or 4-15 inch band using sufficient spray volume to achieve adequate coverage.

**Rate of Application**  
0.3 to 0.6 linear feet per 1000 linear feet row

**Method of Application**  
Linear row calculations should be used proportional to the standard Band Width/Row Width formula to adjust rates for different band widths or row spacings. Use higher rates of Permethrin when incorporating into the soil without exceeding the recommended dosage.

**Rate of Application**  
Permethrin may be applied as a preplant incorporated, pre-emergence, or at planting time application. Apply as a broadcast spray by ground or air (minimum of 2 gallons finished spray per acre by air) or 4-15 inch band using sufficient spray volume to achieve adequate coverage.

**Rate of Application**  
Begin application when the adults appear and repeat at 5 to 7 day intervals throughout the season.

**General Restrictions:**

- Do not graze livestock in treated areas or feed cover crops from treated areas to livestock.
- **East of the Rockies,** do not exceed 4 applications after petal fall.
- **West of the Rockies,** do not exceed 3 applications after petal fall.

** DPR**

**Insects Controlled**  
Liriomyza leafminers, Flies

**Rate of Application**  
20 fluid ounces (0.5 pound active) per 100 gallons (1 teaspoon per gallon)

**Method of Application**  
Avoid spraying the blooms. Permethrin may be applied on a weekly schedule. Caution: Permethrin has demonstrated excellent plant safety, however, not all cultivars have been tested. Before treating large numbers of plants of a particular cultivar, treat a few plants and observe prior to full scale applications.

**Foliar Use:**

**Insects Controlled**  
Armyworm (including Fall and Southern Armyworm), Corn Borer, European Southwestern Corn Earworm, Corn Rootworm Beetles*, Cutworms, Flea Beetles, Hop Vine Borer, Stalk Borers, Leaffoppers, Webworms

**Rate of Application**  
4 to 8 ounces (0.1 to 0.2 pound active) per acre

**Method of Application**  
When treating for stalk borers, Permethrin must be applied when or shortly before the stalk borer larvae are moving into the corn from surrounding weeds and grasses. Mowing or burned herbicide are suggested to initiate movement. For control of Corn Earworm apply just before silking and continue as necessary to maintain control. Apply a minimum of 2 gallons of finished spray per acre by air or 10 gallons per acre with ground equipment.
### Sweet Corn (1 day phi)

<table>
<thead>
<tr>
<th>Insects Controlled</th>
<th>Rate of Application</th>
<th>Method of Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corn Earworm, Corn Rootworm Beetles*, Cucumber, European Corn Borer, Fall Armyworm, Flea Beetle, Hop Vine Borer, Leaffooters, Southern Armyworm, Stalk Borers, Webworm, Western Corn - Borer</td>
<td>4 to 8 ounces (0.1 to 0.2 pound active) per acre</td>
<td>Apply every 3 to 5 days. Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft.</td>
</tr>
</tbody>
</table>

### Cucurbit Vegetables (0 day phi): such as Chayote (fruit) (Sechium edule); Chinese waxgourd (Chinese preserving melon) (Benincasa hispida); Citron melon (Citrullus lanatus var. citroides); Cucumber (Cucumis sativus); Gherkin (Cucumis anguria); Gourd, edible (Lagenaria ssp.) (includes hyotan, cucuzza); Luffa spp. (includes hechima, Chinese okra); Momordica spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber); Muskemelon hybrids and/or cultivars of Cucumis melo (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon); Pumpkin (Cucurbita spp.); Squash, summer (Cucurbita pepo var. melpopo) (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini); Squash, winter (Cucurbita maxima, C. moschata) (includes butternut squash, calabaza, Hubbard squash); C. mixta; C. pepo includes acorn squash, spaghetti squash); Watermelon (includes hybrids and/or varieties of Citrullus spp.). |

### Leafy Vegetables (except Brassica and spinach) (1 day phi): such as: Amaranth, Chinese spinach, tampala; Arugula (Rucqueta); Cardoon; Celery; Chinese; Celtuce; Chervil; Chrysanthemum, edible-leaved and garland; Corn salad; Cress, garden; Cress, upland (yellow rocket, winter cress); Dandelion; Dock (sorrel); Endive (escarole); Fennel, Florence (finocchio); Lettuce, head and leaf; Orach; Parsley; Purslane, garden; Purslane, winter; Radicchio (red chicory); Rhubarb; Swiss chard. |

### Spinach (including New Zealand and vine, Malabar spinach, Indian spinach).*

<table>
<thead>
<tr>
<th>Insects Controlled</th>
<th>Rate of Application</th>
<th>Method of Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aphids, Leaffminers, Squash Bug</td>
<td>8 ounces (0.2 pound active) per acre</td>
<td>Apply with ground equipment in a minimum spray volume of 20 gallons of finished spray per acre or in a minimum of 4 gallons per acre by aircraft.</td>
</tr>
<tr>
<td>Cabbage Looper, Cucumber Beetle (adults), Cutworms, Leaffooters, Melonworm, Pickleworm, Plant Bugs (including Lygus and Stink Bugs), Rindworms, Squash Vine Borer</td>
<td>4 to 6 ounces (0.1 to 0.2 pound active) per acre</td>
<td>Apply every 3 to 5 days. Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft.</td>
</tr>
<tr>
<td>Cantaloupes</td>
<td>Maximum rate per application is 8 fl. oz. of product (0.2 lb. active)/Acre. Minimum Retreatment Interval is 7 days. Seasonal Maximum Application Rate is 32 fl. oz. of product (0.8 lb. active)/Acre per year (48 fl. oz. of product in HI (1.2 lb. active)).</td>
<td></td>
</tr>
<tr>
<td>Cucumbers, Pumpkins, Squash and Watermelon</td>
<td>Maximum rate per application is 8 fl. oz. of product (0.2 lb. active)/Acre. Minimum Retreatment Interval is 7 days. Seasonal Maximum Application Rate is 18 fl. oz. of product (0.45 lb. active)/Acre per year.</td>
<td></td>
</tr>
<tr>
<td>Eggplants (3 day phi)</td>
<td>Maximum rate per application is 6 fl. oz. of product (0.15 lb. active)/Acre. Minimum Retreatment Interval is 7 days. Seasonal Maximum Application Rate is 24 fl. oz. of product (0.6 lb. active)/Acre per year (40 fl. oz. of product in HI (1 lb. active)).</td>
<td></td>
</tr>
</tbody>
</table>
Mushrooms (Mushroom houses) (3 day phi)
Use of high pressure hand wand prohibited in mushroom houses.

**Insects Controlled** | **Rate of Application** | **Method of Application**
--- | --- | ---
Mushroom Flies (Saccharomyces cerevisiae) | Apply as a fogging or aerosol treatment at the rate of 2.0 to 2.5 ounces (0.05-0.065 pound active) per 30 ounces of water or suitable diluent. Use 1 quart of solution per standard double house (35,000 cu. ft.: 8000 sq. ft.) | Preparation of the building prior to fogging: (1) Close all doors, windows, and ventilators, (2) Lock or barricade all entrances, turn off pilot lights, post warning signs, and take precautions to prevent persons and animals from entering the area. Use prior to filling the house, during cool-down, during spawning, up to pinning, and between breaks. Do not use when mushrooms are present. Treat once daily as needed when flies appear. Do not make more than 20 applications prior to pinning of first break; apply no more than two applications between each break. Do not apply more than 30 applications total per crop of 5 breaks. Length of exposure time should be limited to 1 hour; then ventilate the house. Use fans to ventilate in houses that do not have forced air circulation.

Wear a respirator with either an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-23G), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

Onions, Bulb and Garlic (1 day phi)

**Insects Controlled** | **Rate of Application** | **Method of Application**
--- | --- | ---
Armyworms, Onion Thrips, Cutworms, Leaffooted Bug, Onion Maggots (Adults), Stink Bugs | 6 to 12 ounces (0.15 to 0.3 pound active) per acre | Apply with ground equipment in a minimum of 20 gallons of finished spray per acre or in a minimum of 5 gallons per acre by aircraft. Begin applications when pests appear. Use the higher label rates as Onion Thrips population increases and avoid rescue situations.

Onions: Maximum rate per application is 12 fl. oz. of product (0.3 lb. active)/Acre. Minimum Retreatment Interval is 7 days. Seasonal Maximum Application Rate is 40 fl. oz. of product (1 lb. active)/Acre per year.

Garlic: Maximum rate per application is 8 fl. oz. of product (0.2 lb. active)/Acre. Minimum Retreatment Interval is 10 days. Seasonal Maximum Application Rate is 32 fl. oz. of product (0.8 lb. active)/Acre per year.

**Ornamental Nursery Stock (Field and Container Grown)**

**Insects Controlled** | **Rate of Application** | **Method of Application**
--- | --- | ---
Ants, Aphids, Bagworms, Beet Armyworm, Birch leafminer, Cabbage Looper, Citrus Thrips, Fungus gnats, Japanese Beetles, Heliothis spp., Lace Bug, Leaffooters, Leaf Rollers, Lygus Bug, Pine sawflies, Plant Bugs, Root Weevils, Webworms, Whiteflies, Zimmerman Pine Moths | 4 to 8 ounces (0.1 to 0.2 pounds active) per 100 gallons of water | Permethrin may be used to control specified pests on non-edible ornamental and non-bearing plants of fruiting species. Caution: Marginal leaf burn may occur on Salvia, Diefenbachia and Pteris Fern. Application to blooming plants may cause browning of petals. Permethrin has demonstrated excellent plant safety; however, not all species and varieties have been tested. Before treating large numbers of plants of a particular variety, treat a few plants and observe prior to full scale application.

Papaya (Florida Only) (7 day phi)

**Insects Controlled** | **Rate of Application** | **Method of Application**
--- | --- | ---
Aphids, Brown Soft Scale, Mealybug, Papaya Fruit Fly, Papaya Webworm, Papaya Whitefly, Scale Crawlers, Coleopteran borers, Bronze birch borer, Flatheaded borers | 6 ounces (0.15 pound active) per acre | Apply with ground equipment in 25-400 gallons of finished spray per acre. Apply when insects first appear and repeat at a minimum of 10 day interval as needed to provide control.

Maximum rate per application is 6 fl. oz. of product (0.15 lb. active)/Acre. Minimum Retreatment Interval is 10 days. Seasonal Maximum Application Rate is 30 fl. oz. of product (0.75 lb. active)/Acre per year. Do not graze livestock in treated areas or feed cover crops from treated areas to livestock.

Peaches, Nectarines (14 day phi)

**Insects Controlled** | **Rate of Application** | **Method of Application**
--- | --- | ---
Green Fruitworm, Lesser Peach Tree Borer, Oriental Fruit Moth, Peach Twig Borer, Plum Curculio, Rose Chafer, Tarnished Plant Bug | 6 to 10 ounces (0.1 to 0.25 pounds active) per acre | Apply with ground equipment using 25-400 gallons of spray per acre or a minimum of 10 gallons per acre by aircraft. Spray to wet all foliage. Maximum rate per application is 10 fl. oz. of product (0.25 lb. active)/Acre. Minimum Retreatment Interval is 10 days. Seasonal Maximum Application Rate is 30 fl. oz. of product (0.75 lb. active)/Acre per year. Do not graze livestock in treated areas or feed cover crops from treated areas to livestock.

Pears (Dormant through Delayed Dormant)

**Insects Controlled** | **Rate of Application** | **Method of Application**
--- | --- | ---
Pear Psylla | 8 to 10 ounces (0.2 to 0.25 pounds active) per acre | Permethrin may be combined with up to 2 gallons of spray oil per acre. Maximum rate per application is 10 fl. oz. of product (0.25 lb. active)/Acre (dormant only). Minimum Retreatment Interval is 10 days. Seasonal Maximum Application Rate is 26 fl. oz. of product (0.65 lb. active)/Acre per year. Do not graze livestock in treated areas or feed cover crops from treated areas to livestock.
### Insects Controlled, Rate of Application, and Method of Application

#### Pears (Pre-Bloom)

<table>
<thead>
<tr>
<th>Insects Controlled</th>
<th>Rate of Application</th>
<th>Method of Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Codling Moth, Green Fruitworm, Pear Psylla</td>
<td>5 to 10 ounces</td>
<td>Apply with ground equipment using 25-400 gallons of finished spray per acre or a minimum of 10 gallons per acre by aircraft. Pre-bloom sprays can be applied from dormant through bud burst stages.</td>
</tr>
<tr>
<td></td>
<td>(0.2 to 0.25 pound active)</td>
<td>per acre</td>
</tr>
<tr>
<td>Maximum rate per application is 10 fl. oz. of product (0.25 lb. active)/Acre. Minimum Retreatment Interval is 10 days. Seasonal Maximum Application Rate is 26 fl. oz. of product (0.65 lb. active)/Acre per year. Do not graze livestock in treated areas or feed cover crops from treated areas to livestock.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Peppers, Bell (3 day phi)

<table>
<thead>
<tr>
<th>Insects Controlled</th>
<th>Rate of Application</th>
<th>Method of Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cabbage Looper, Corn Earworm, Cutworms, Flea Beetle, Pepper Weevil, Vegetable Leafminer</td>
<td>4 to 8 ounces</td>
<td>Apply using sufficient water to obtain uniform coverage. Apply with ground equipment using a minimum of 10 gallons of finished spray per acre or a minimum of 2 gallons per acre by aircraft.</td>
</tr>
<tr>
<td></td>
<td>(0.1 to 0.2 pound active)</td>
<td>per acre</td>
</tr>
<tr>
<td>European Corn Borer</td>
<td>8 ounces</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(0.2 pound active)</td>
<td>per acre</td>
</tr>
<tr>
<td>Maximum rate per application is 8 fl. oz. of product (0.2 lb. active)/Acre. Minimum Retention Interval is 5 days. Seasonal Maximum Application Rate is 32 fl. oz. of product (0.8 lb. active)/Acre per year.</td>
<td></td>
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</tbody>
</table>

#### Pine Seed Orchards

<table>
<thead>
<tr>
<th>Insects Controlled</th>
<th>Rate of Application</th>
<th>Method of Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cone Worms, Seed Bugs</td>
<td>Use 8-16 fluid oz of product / treated acre (0.2-0.4 lb ai / treated acre) using a final carrier solution of 25-400 gals. depending on the type of sprayer system being used.</td>
<td>Ground (low and high volume applications): Make up to 3 applications per season. Aerial Applications: Rates: Use 24 fluid oz of product / treated acre (0.6 lb ai/treated acre). Methods of Application: Apply in a minimum of 5 gallons of finished spray per acre. Apply once per season.</td>
</tr>
<tr>
<td>Maximum rate per application is 26 fl. oz. of product (0.65 lb. active)/Acre. Minimum Retention Interval is 10 days. Seasonal Maximum Application Rate is 32 fl. oz. of product (0.8 lb. active)/Acre per year. Do not graze livestock in treated areas or feed cover crops from treated areas to livestock.</td>
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</tbody>
</table>

#### Pistachios (0 day phi)

<table>
<thead>
<tr>
<th>Insects Controlled</th>
<th>Rate of Application</th>
<th>Method of Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leaffooted Bugs, Navel Orangeworm, Peach Twig Borer, Plant Bugs, Stink Bugs</td>
<td>8 to 12 ounces</td>
<td>Use sufficient water to obtain full coverage of foliage. Apply Permethrin in a minimum of 10 gallons of finished spray per acre by aircraft or by ground equipment in 25-400 gallons of finished spray per acre.</td>
</tr>
<tr>
<td></td>
<td>(0.2 to 0.3 pound active)</td>
<td>per acre</td>
</tr>
<tr>
<td>Ants</td>
<td>12 ounces</td>
<td>Application should follow mowing of weed growth to insure maximum coverage of the soil surface. Overhead moisture following application will enhance activity.</td>
</tr>
<tr>
<td></td>
<td>(0.3 pound active)</td>
<td>per acre</td>
</tr>
<tr>
<td>Do not apply after 10% hull split.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum rate per application is 12 fl. oz. of product (0.3 lb. active)/Acre. Minimum Retention Interval is 10 days. Seasonal Maximum Application Rate is 36 fl. oz. of product (0.9 lb. active)/Acre per year. Do not graze livestock in treated areas or feed cover crops from treated areas to livestock.</td>
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</tbody>
</table>

#### Potatoes (14 day phi)

<table>
<thead>
<tr>
<th>Insects Controlled</th>
<th>Rate of Application</th>
<th>Method of Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aster Leafhopper, Beet Armyworm, Colorado Potato Beetle, Cutworms, European Corn Borer, Potato Aphid, Potato Flea Beetle, Potato Leathopper, Potato Psyllid, Potato Tubeworm, Tamished Plant Bug</td>
<td>4 to 6 ounces</td>
<td>Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft. Permethrin may also be applied using refined non-volatile vegetable oil for control of listed pests. Permethrin should be diluted with oil and applied in a minimum of one quart total volume per acre using equipment calibrated to give adequate coverage. Use sufficient spray volume to obtain full coverage.</td>
</tr>
<tr>
<td></td>
<td>(0.1 to 0.2 pound active)</td>
<td>per acre</td>
</tr>
<tr>
<td>Maximum rate per application is 8 fl. oz. of product (0.2 lb. active)/Acre. Minimum Retention Interval is 10 days. Seasonal Maximum Application Rate is 32 fl. oz. of product (0.8 lb. active)/Acre per year.</td>
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</tbody>
</table>

#### Pumpkins: For general use directions refer to the Cucurbit Vegetables crop grouping.

#### Range Grass (New Mexico Only)

<table>
<thead>
<tr>
<th>Insects Controlled</th>
<th>Rate of Application</th>
<th>Method of Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range Caterpillar</td>
<td>0.4 ounces</td>
<td>Apply using sufficient spray volume to obtain uniform coverage. Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft.</td>
</tr>
<tr>
<td></td>
<td>(0.1 pound active)</td>
<td>per acre</td>
</tr>
<tr>
<td>Do not apply more than once per year. Cattle may be present during application. Do not harvest or feed hay to livestock.</td>
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</tbody>
</table>

#### Roses (Field Grown)

<table>
<thead>
<tr>
<th>Insects Controlled</th>
<th>Rate of Application</th>
<th>Method of Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heliolothis spp.</td>
<td>4 to 8 fluid ounces (0.1 to 0.2 pound active) per acre</td>
<td>Permethrin may be applied with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons of finished spray per acre by aircraft.</td>
</tr>
<tr>
<td></td>
<td>(0.05 to 0.1 pound active) per 100 gallons of water</td>
<td></td>
</tr>
<tr>
<td>Caution: Permethrin is not phytotoxic to the following varieties of greenhouse roses: Ballina, Bettina, Cara Mia, Coquette, Excitement, Forever Yours, G. Wave, Jack Frost, Jr. Bridesmaid, Matador, Paul’s Pink, Samantha, Seventeen, Sonia, Town Crier, Tropicana and Vista. Other varieties may vary in their sensitivity to Permethrin, and a small number of plants should be treated under local conditions to determine plant safety prior to commercial use.</td>
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</tbody>
</table>

#### Roses (Greenhouse)

<table>
<thead>
<tr>
<th>Insects Controlled</th>
<th>Rate of Application</th>
<th>Method of Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beet Armyworm, Colorado Looper, Omnivorous Leafroller</td>
<td>8 fluid ounces</td>
<td>Caution: Permethrin is not phytotoxic to the following varieties of greenhouse roses: Ballina, Bettina, Cara Mia, Coquette, Excitement, Forever Yours, G. Wave, Jack Frost, Jr. Bridesmaid, Matador, Paul’s Pink, Samantha, Seventeen, Sonia, Town Crier, Tropicana and Vista. Other varieties may vary in their sensitivity to Permethrin, and a small number of plants should be treated under local conditions to determine plant safety prior to commercial use.</td>
</tr>
<tr>
<td></td>
<td>(0.2 pound active)</td>
<td>per 100 gallons of water</td>
</tr>
<tr>
<td>Caution: Permethrin is not phytotoxic to the following varieties of greenhouse roses: Ballina, Bettina, Cara Mia, Coquette, Excitement, Forever Yours, G. Wave, Jack Frost, Jr. Bridesmaid, Matador, Paul’s Pink, Samantha, Seventeen, Sonia, Town Crier, Tropicana and Vista. Other varieties may vary in their sensitivity to Permethrin, and a small number of plants should be treated under local conditions to determine plant safety prior to commercial use.</td>
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<td></td>
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</tbody>
</table>

#### Soybeans (60 day phi)

<table>
<thead>
<tr>
<th>Insects Controlled</th>
<th>Rate of Application</th>
<th>Method of Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bean Leaf Beetle, Cabbage Looper, Corn Rootworm Beetles, Cutworms, Flea Beetle, Green Cloverworm, Japanese Beetle, Mexican Bean Beetle, Potato Leathopper, Saltmarsh Caterpillar (Woollybear Caterpillar), Thistle Caterpillar, Velvetbean Caterpillar</td>
<td>2 to 4 ounces</td>
<td>Apply with ground equipment in a minimum of 10 gallons of finished spray per acre or in a minimum of 2 gallons per acre by aircraft. Permethrin may also be applied using refined non-volatile vegetable oil for control of listed pests. Permethrin should be diluted with oil and applied in a minimum of one quart total volume per acre using equipment calibrated to give adequate coverage. When applying in water by aircraft, 1 quart of oil may be substituted for 1 quart of water per gallon of finished spray.</td>
</tr>
<tr>
<td></td>
<td>(0.05 to 0.1 pound active)</td>
<td>per acre</td>
</tr>
<tr>
<td>Maximum rate per application is 8 fl. oz. of product (0.2 lb. active)/Acre. Minimum Retention Interval is 10 days. Seasonal Maximum Application Rate is 16 fl. oz. of product (0.4 lb. active)/Acre per year. Do not graze or feed soybean forage or hay.</td>
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</tbody>
</table>

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**PLEASE NOTE**: The above information is intended for educational purposes only and should not be used as a substitute for professional agricultural advice. Always consult with a licensed pest control professional before implementing any pest control strategies.
PERMETHRIN
EPA REG. NO. 34704-873

Spinach: Refer to Leafy Vegetable crop grouping for general use directions. Do not apply more than 1.0 pound active ingredient per acre per season.

Tomatoes, Tomatillos (0 day phi)

<table>
<thead>
<tr>
<th>Insects Controlled</th>
<th>Rate of Application</th>
<th>Method of Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beef Armyworm, Cabbage Looper, Colorado Potato Beetle, Granulate Cutworm, Hornworms, Southern Armyworm, Tomato Fruitworm, Tomato Pinworm, Vegetable Leafminers</td>
<td>2 to 8 ounces (0.05 to 0.2 pound active) per acre</td>
<td>Apply with ground equipment in a minimum of 10 gallons finished spray per acre or in a minimum of 2 gallons per acre by aircraft.</td>
</tr>
</tbody>
</table>

Maximum rate per application is 8 fl. oz. of product (0.2 lb. active)/Acre. Minimum Retreatment Interval is 7 days. Seasonal Maximum Application Rate is 24 fl. oz. of product (0.6 lb. active)/Acre per year (32 fl. oz. of product in HI (0.8 lb. active)).

Do not apply to tomato varieties which produce mature fruit <1 inch in diameter.

Maximum rate per application is 10 fl. oz. of product (0.25 lb. active)/Acre. Minimum Retreatment Interval is 10 days. Seasonal Maximum Application Rate is 30 fl. oz. of product (0.75 lb. active)/Acre per year. Do not graze livestock in treated areas or feed cover crops from treated areas to livestock.

Premises Spray
For agricultural use only. Spray directly to walls and ceiling as residual surface treatment only. Do not treat manure or litter. Avoid contamination of feed and water. Do not apply directly to livestock or poultry.

For Application In | Target Insects | Method of Application | Dilute | Application Rate |
<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dairies, Barns, Feedlots, Stables, Poultry Houses, Swine and Livestock Houses</td>
<td>House Flies, Stable Flies and other Manure Breeding Flies, Also aids in the reduction of Cockroaches, Mosquitoes and Spiders</td>
<td>Sprayer</td>
<td>4 ounces product (0.1 lb ai) in 12.5 gallons water</td>
<td>1 gallon per 750 square feet of surface</td>
</tr>
</tbody>
</table>

Re-treat as necessary, but not more often than once every 1-2 weeks. The use of any residual fly spray should be supplemental with proper manure management and general sanitation to reduce or eliminate fly breeding site. When used in dairy barns or facilities: Close milk bulk-tank lids to prevent contamination.

Rate Conversion Chart

<table>
<thead>
<tr>
<th>Pounds Active per Acre</th>
<th>Formulation Ounces per Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.05</td>
<td>2.0</td>
</tr>
<tr>
<td>0.10</td>
<td>4.0</td>
</tr>
<tr>
<td>0.15</td>
<td>6.0</td>
</tr>
<tr>
<td>0.20</td>
<td>8.0</td>
</tr>
<tr>
<td>0.25</td>
<td>10.0</td>
</tr>
<tr>
<td>0.30</td>
<td>12.0</td>
</tr>
<tr>
<td>0.40</td>
<td>16.0</td>
</tr>
</tbody>
</table>

Dealers Must Sell in Original Packages Only.

STORAGE AND DISPOSAL
PESTICIDE STORAGE: Do not store below 10°F, (-12°C). Do not use or store near heat, open flame or hot surfaces. 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 containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal. 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. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at www.acrecycle.org.

Triple rinse or pressure 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 a mix tank or store rinsate in a minimum of 10 gallons of finished insects spray per acre. Apply when insects appear.

Maximum rate per application is 10 fl. oz. of product (0.25 lb. active)/Acre. Minimum Retreatment Interval is 10 days. Seasonal Maximum Application Rate is 30 fl. oz. of product (0.75 lb. active)/Acre per year. Do not graze livestock in treated areas or feed cover crops from treated areas to livestock.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY
BEFORE BUYING OR USING THIS PRODUCT, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified on the product label or use of this product contrary to later use or instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, LOVELAND PRODUCTS, 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 when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS WARRANTED IN THIS LABEL AND TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THIS PRODUCT IS SOLD “AS IS” AND LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE.

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