34704-858

11/03/2008

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

November 3, 2008

John Tice
Loveland Products, Inc.
P.O. Box 1286
Greeley, Colorado 80632-1286

Subject: Amendment – Adding Aerial Application
Capture 2EC
EPA Reg. No. 34704-858
Your submission dated August 18, 2008

Dear Mr. Tice:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable subject to the comments listed below. Two (2) copies of the finished labeling must be submitted prior to releasing the product for shipment. A stamped copy of the label is enclosed for your records.

1. Add "If recycling is not available puncture or dispose of in a sanitary landfill or incineration or if allowed by stat and local authorities by burning. If burned stay out of smoke" after the statement "Triple rinse or pressure rinse container (or equivalent) promptly after emptying" under Container Disposal section.

2. Replace all "to the extent allowed by applicable law" and "to the extent required by applicable law" with "to the extent consistent with applicable law" in the Warranty statement.

3. Re-instate "contains xylene range aromatic solvents" under the Ingredient section.

If you have any questions regarding this action, please contact BeWanda Alexander at (703) 305-7460.

Sincerely,

BeWanda Alexander for

Richard Gebken
Interim Product Manager 13
Insecticide Branch
Registration Division (7505P)

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

ACCEPTED
with COMMENTS
In EPA Letter Dated
NOV 3 2008
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 34704-858

2/11

SNIPER®

Insecticide/Miticide

ACTIVE INGREDIENT:	BY WT.
Bifenthrin: (2 methyl[1, 1'-biphenyl]-3-yl) methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl-cyclopropanecarboxylate*	25.0%
OTHER INGREDIENTS:	75.0%
TOTAL	100.0%

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

This product contains 2 pounds active ingredient per gallon.
Bifentrhin U.S. Patent No. 4,238,505

KEEP OUT OF REACH OF CHILDREN

WARNING—AVISO

Si usted no entiende la etiqueta, busque a siguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

EPA REG. NO. 34704-858

EPA EST. NO. 5905-IA-001

NET CONTENTS 1 GAL. (3.78 L)

IHT EXP 08Y08

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS

WARNING

May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Harmful if inhaled or absorbed through skin. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

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

Handlers who may be exposed to the dilute through application or other tasks must wear:
- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as Barrier Laminate or Nitrile Rubber or Neoprene Rubber or Viton
- Shoes plus socks.

Handlers who may be exposed to the concentrate through mixing, loading, application or other tasks must wear:
- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as Barrier Laminate or Nitrile Rubber or Neoprene Rubber or Viton
- Shoes plus socks
- Protective eyewear.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:
- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

FIRST AID

If Swallowed:	• Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give any liquids to the person. • Do not give anything by mouth to an unconscious 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 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.

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: 1-800-301-7976.
NOTE TO PHYSICIAN: This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided. Contains petroleum distillate - vomiting may cause aspiration pneumonia.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and aquatic invertebrates. Use with care when applying in areas adjacent to any body of water. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not make applications when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

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

The use of bifenthrin is prohibited in areas that may result in exposure of endangered species to bifenthrin. Prior to use in a particular county, contact the local extension service for procedures and precautions to use to protect endangered species.

DIRECTIONS FOR USE

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

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

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.

Application Instructions
Rate of application is variable according to pest pressure, timing of sprays, and field scouting. Use lower rates under light to moderate infestations; higher rates under heavy insect pressure and for mite control. Arid climates generally require higher rates.

Cultivation within 10 feet of water body is prohibited to allow for the growth of a vegetated filter strip.

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In New York State this product may not be applied within 100 feet (using ground equipment) to 300 feet (using aerial equipment) of coastal marshes or streams that drain into coastal marshes.

California Special Equipment and Restrictions: The use of Sniper® on corn is prohibited in all coastal counties. Sniper must be used in closed systems that meet the criteria for closed systems as established by the California Department of Food and Agriculture. The criteria and a list of the closed systems meeting the criteria are available through the California Department of Food and Agriculture.

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
- Chemical-resistant gloves, such as Barrier Laminate or Nitrile Rubber or Neoprene Rubber or Viton
- Shoes plus socks.

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.

For LEPA irrigation a minimum of 0.75 inch of water per acre is recommended. Where non-emulsified oils are used as the diluent, 1 to 2 pints per acre is recommended.

Results from utilizing chemigation have been variable and depend upon the set up and calibration of equipment. Crop injury, lack of effectiveness, or illegal residues in the crop can result from non-uniform distribution of treated water. Contact your State Agricultural Extension Service specialist, equipment manufacturers or other experts for consultation on the suitability of the equipment set up to obtain effective control of the target insect pests.

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. Failure to cease application during a mechanical stoppage may result in undesirable residues to adjacent areas.

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.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Sniper insecticide/miticide should be applied continuously for the duration of the water application. This product should be diluted in sufficient volume to ensure accurate application over the area to be treated. When using chemigation, a minimum of 0.5 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.

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

Tank-Mixture
This product may be applied in tank mixtures with other products approved for use on registered crops. Observe all restrictions and precautions which appear on the labels of these products. Test for compatibility of products before mixing.

Spray Drift Precautions
All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.

OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES, RESERVOIRS, RIVERS, PERMANENT STREAMS, MARSHES OR NATURAL PONDS, ESTUARIES AND COMMERCIAL FISH FARM PONDS.

Do not apply by ground equipment within 25 feet, or by air within 150 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds. Increase the buffer zone to 450 feet when ultra low volume (ULV) application is made in cotton. Use of ultra low volume (ULV) application on corn and hops is prohibited.

For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of wingspan or rotor diameter.

Use the largest droplet size consistent with good pest control. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.

Spray should be released at the lowest height consistent with pest control and flight safety. Application more than 10 feet above the crop canopy should be avoided.

Make aerial or ground applications when the wind velocity favors on target product deposition (approximately 3 to 10 mph.). Do not apply when wind velocity exceeds 15 mph. Avoid applications when wind gusts approach 15 mph.

Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

Do not cultivate within 10 feet of the aquatic area so as to allow growth of a vegetative filter strip.

Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift to aquatic areas. Avoid spraying during conditions of low humidity and/or high temperature.

Do not make aerial or ground applications during temperature inversions. Do not make aerial or ground applications to corn if heavy rainfall is imminent. 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.

COTTON

PEST	DOSAGE	
	LB AI/A	FL OZ/A
European corn borer Soybean (banded) thrips Tobacco thrips	0.02-0.10	1.3-6.4
Boll weevil Bollworm Cabbage looper Cotton aphid Cotton fleahopper *Cotton leafperforator* Cutworms Fall armyworm *Lygus* spp. (California only) Plant bugs Saltmarsh caterpillar Southern garden leafhopper Stink bugs Tobacco budworm Whitefly Yellow striped armyworm	0.04-0.10	2.6-6.4
Beet armyworm Carmine spider mite *Lygus* Spp. (except California) Pink bollworm Twospotted spider mite	0.06-0.10	3.8-6.4

Restrictions - Cotton
Do not apply more than 0.5 pound active ingredient per acre per season.

In California, do not apply more than 0.3 pound active ingredient per acre per season and do not make more than 3 applications per growing season.

Do not apply within 14 days of harvest.

Do not graze livestock in treated areas or cut treated crops for feed.

Do not make more than 10 synthetic pyrethroid applications (of one product or combination of products) to a cotton crop in one growing season. Synthetic pyrethroid products include Ambush®, Ammo®, Asana® XL, Baythroid®, Danitol®, Karate®, Mustang®, Scout X-TRA® and Sniper®.

Remarks - Cotton
This product may be applied in water or refined vegetable oil (soybean/cottonseed).

Application in Water: Apply in a minimum of 5 gallons per acre with ground equipment or 1 gallon per acre by aircraft. When applying by air, one quart of emulsified oil may be substituted for one quart of water in the finished spray.

ULV Application: Apply the recommended rate of this product in refined vegetable oil in a minimum of 1 quart of finished spray per acre with aircraft calibrated to give adequate coverage.

To Control Boll Weevil: Apply this product at an interval of 3 to 4 days until pest numbers are reduced to acceptable levels.

To Control Mites and Aphids: Apply when pests first appear. Repeat as necessary to maintain control. Higher rates will be required once a damaging threshold is established.

FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED (AT PLANT USE)

PEST	DOSAGE		REMARKS
Corn rootworm larvae Northern Southern Western	.0046 lb. active per 1,000 linear ft. of row	0.30 fl. oz. per 1,000 linear ft. of row	Apply as a 5 to 7 inch T-band treatment over an open seed furrow. Position the spray nozzle behind the planter shoe, in front of the press wheel centered over the row. Use the table below to determine this product's needs per acre. Apply in a minimum of 3 gals. of finished spray per acre. Mix this product with water or fertilizer in the following manner. Fill the spray tank, approximately one-half full with water or liquid fertilizer, add the proper amount of this product then add the rest of the water or fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform spray mixture. Applications of this product alone or in recommended tank mixtures, in conjunction with in-furrow pop-up fertilizers may be used. A jar compatibility test should be performed with appropriate ratio of this product and fertiiizer to ensure mixture will stay in solution. Constant agitation should be maintained during mixing and application. Do not apply to soil where there is greater than 30% cover of crop residue remaining. Do not apply within 30 days of harvest. Do not graze livestock in treated area or cut treated crops for feed within 30 days of treatment. Do not apply more than 0.1 lb. active per acre per season as an at plant application.
Army cutworm Cutworm spp. Grubs Seed corn beetle Seed corn maggot True armyworm or Armyworm spp. Wireworm	.0023 to .0046 lb. active per 1,000 linear ft. of row	0.15 to 0.30 fl. oz. per 1,000 linear ft. of row	

Row Spacings (inches)	40	38	36	30
Sniper (lbs. ai per acre)	0.060	0.064	0.069	0.080
Sniper (formulated oz. per acre)	3.9	4.1	4.4	5.12

FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED (PRE & PPI)

PEST	DOSAGE		REMARKS
Black cutworm White grub Wireworm Seedcorn maggot Armyworm spp. Stalkborer	0.047 to 0.062 lb. ai/A Pre-Plant Incorporated (PPI)	3 to 4 fl. oz./A Pre-Plant Incorporated (PPI)	The 3-4 oz/A rate must be applied as PPI and can be tankmixed and applied with PPI herbicides. Incorporation of this product should not be any deeper than the intended planting depth and no deeper than 3 inches. Incorporation depth should be close to the intended seed planting depth.

FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED (PRE & PPI)

PEST	DOSAGE		REMARKS
Black cutworm Armyworm spp. Stalkborer	0.040 lb. ai/A Pre-Emergence (PRE)	2.56 fl. oz./A Pre-Emergence (PRE)	The 2.56 oz/A rate may be applied PRE and can be tankmixed and applied with PRE herbicides.

FIELD CORN (GRAIN AND SILAGE), POPCORN, FIELD CORN GROWN FOR SEED (FOLIAR USE)

PEST	DOSAGE	
	LB AI/A	FL OZ/A
Aphids Army cutworm Beet armyworm Cereal leaf beetle Chinch bug Common stalk borer Corn earworm Corn rootworm adults Cucumber beetle adult Cutworm spp. Southwestern corn borer European corn borer Fall armyworm Flea beetle Grasshoppers Greenbug Japanese beetle adult Sap beetle Southern armyworm Southern corn leaf beetle Stink bug Tarnished plant bug True armyworm or Armyworm species Webworms Western bean cutworm Yellowstriped armyworm	0.033-0.10	2.1-6.4
Banks grass mite Carmine mite Twospotted spider mite	0.08-0.10	5.12-6.4

Restrictions - Corn
Do not apply more than 0.3 lb. active ingredient per acre per season including pre & PPI, at plant, plus foliar applications. In California the maximum rate of 0.2 lb. ai/A/season.

Do not apply within 30 days of harvest.

Do not graze livestock in treated areas or cut treated crops for feed within 30 days of the last application.

Use of ultra low volume (ULV) application on corn is prohibited.

Do not make aerial or ground applications to corn if heavy rainfall is imminent.

Use of this product on corn is prohibited in all coastal counties.

Remarks - Corn
General: Apply in a minimum of 2-5 gallons of finished spray per acre by aircraft or in a minimum of 10 gallons per acre with ground equipment. To improve control by aircraft, use 5 gallons of finished spray per acre particularly when initial populations are heavier than normal. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.

To control ear-attacking pests: Apply this product just before silking and repeat as necessary to maintain control but do not exceed maximum application rates and reapplication intervals listed elsewhere in this section.

Southwestern corn borer, European corn borer: Make application for corn borer control with initial application at or shortly before egg hatch.

For control of other insect pests: Apply when pests first appear and repeal as necessary but do not exceed maximum application rates and reapplication intervals listed elsewhere in this section.

For Control of Mite:
Apply for Banks grass mite control when colonies first form prior to leaf damage or discoloration and before dispersal above the bottom third of the plant.

For Twospotted spider mite and Carmine mite control, apply when colonies first form *prior to leaf damage or discoloration and before widespread mite dispersal throughout* the canopy.

Higher rates will be necessary for heavier initial populations and corn under heat or drought stress. Field experience with dimethoate at 0.5 lb. active per acre in tank mixture has demonstrated good control under these conditions.

For mite control in Texas, New Mexico, Oklahoma, Arizona: Apply in a minimum of 5 gallons of finished spray per acre by aircraft or in a minimum of 10 gallons per acre with ground equipment.

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SWEET CORN (GRAIN AND SILAGE)
SWEET CORN GROWN FOR SEED (AT PLANT USE)

PEST	DOSAGE		REMARKS
Corn rootworm larvae Northern Southern Western Mexican (California)	.0046 lb. active per 1,000 linear ft. of row	0.30 fl.oz. per 1,000 linear ft. of row	Apply as a 5 to 7 inch T-band treatment over an open seed furrow. Position the spray nozzle behind the planter shoe, in front of the press wheel centered over the row. Use the table below to determine the Sniper needs per acre. Apply in a minimum of 3 gals. of finished spray per acre. Mix this product with water or fertilizer in the following manner. Fill the spray tank approximately one-half full with water or liquid fertilizer, add the proper amount of Sniper then add the rest of the water or fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform spray mixture. Applications of this product alone or in recommended tank mixtures, in conjunction with in-furrow pop-up fertilizers may be used. A jar compatibility test should be performed with appropriate ratio of this product and fertilizer to ensure mixture will stay in solution. Constant agitation should be maintained during mixing and application. Do not apply to soil where there is greater than 30% cover of crop residue remaining. Do not apply within 30 days of harvest. Do not graze livestock in treated area or cut treated crops for feed within 30 days of treatment. Do not apply more than 0.1 lb. active per acre per season as an at-plant application.
Army cutworm Cutworm spp. *Grubs* Seed corn beetle Seed corn maggot True armyworm or Armyworm spp. Wireworm	.0023 to .0046 lb. active per 1,000 linear ft. of row	0.15 to 0.30 fl. oz. per 1,000 linear ft. of row	

Row Spacings (inches)	40	38	36	30
Sniper (lbs. ai per acre)	0.060	0.064	0.069	0.080
Sniper (formulated oz. per acre)	3.9	4.1	4.4	5.12

SWEET CORN (GRAIN AND SILAGE)
SWEET CORN GROWN FOR SEED (FOLIAR USE)

PEST	DOSAGE LB AI/A	DOSAGE FL OZ/A
Aphids Army cutworm Aster leafhopper (California) Beet armyworm Cereal leaf beetle Chinch bug Common stalk borer Corn earworm Corn rootworm adults Corn silk fly (California) Cucumber beetle adult Cutworm spp. European corn borer Fall armyworm Flea beetle Grasshoppers Greenbug Japanese beetle adult Leafhoppers Sap beetle Southern armyworm Southern corn leaf beetle Southwestern corn borer Stinkbugs Tarnished plant bug Thrips True armyworm or Armyworm spp. Webworms Western bean cutworm Yellowstriped armyworm	0.033-0.10	2.1-6.4
Banks grass mite Carmine mite *Pacific spider mite (California)* Twospotted spider mite	0.08-0.10	5.12-6.4

Restrictions - Sweet Cor
Do not apply more than 0.2 lb.s active ingredient (12.8 ounces formulated) per acre per season.

Do not apply within one day of harvest.

Do not graze livestock in treated areas or cut treated crops for feed within 1 day of the last application.

Use of ultra low volume (ULV) application on corn is prohibited.

Do not make aerial or ground applications to corn if heavy rainfall is imminent.

Use of this product on corn is prohibited in all coastal counties.

Remarks - Sweet Corn
General: Apply in a minimum of 2 gallons of finished spray per acre by air in a minimum of 10 gallons per acre with ground equipment. When applying by air, 1-2 quarts of emulsified oil may be substituted for 1-2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.

To control ear-attacking pests: Apply this product when silking begins and repeat as necessary to maintain control but do not exceed maximum application rates and reapplication intervals listed elsewhere in this section.

Southwestern corn borer, European corn borer: Make 2 applications for corn borer control with initial application at or shortly before egg hatch.

For control of other insect pests: Apply when pests first appear and repeat as necessary but do not exceed maximum application rates and reapplication intervals listed elsewhere in this section.

For Control of Mites:
Apply for Banks grass mite control when colonies first form prior to leaf damage or discoloration and before dispersal above the bottom third of the plant.

For Twospotted spider mite and Carmine mite control, apply when colonies first form prior to leaf damage or discoloration and before widespread mite dispersal throughout the canopy.

Higher rates will be necessary for heavier initial populations and corn under heat or drought stress.

SUCCULENT PEAS AND BEANS

CROP	PEST	DOSAGE LB AI/A	DOSAGE FL OZ/A	REMARKS
Pea (*Pisum* spp.): Dwarf pea, Edible-pod pea, English pea, Garden pea, Green pea, Snow pea, Sugar snap pea, Pigeon pea Bean (*Phaseolus* spp.): Broadbean (succulent) Lima bean (green) Runner bean, Snap bean, Wax bean Bean (*Vigna* spp.): Asparagus bean, Blackeyed pea Chinese longbean, Cowpea Moth bean, Southern pea Yardlong bean, Jackbean, Soybean (immature seed) *Sword bean*	Flea beetle Grasshoppers Aster leafhopper Leafhoppers	0.025-0.10	1.6-6.4	Apply in a minimum of 2 gals. of finished spray per acre by air or in a minimum of 10 gals. per acre with ground equipment. When applying by air, 1-2 qts. of emulsified oil may be substituted for 1-2 qts. of water in the finished spray. Thorough coverage is essential to achieve control. Do not apply more than 0.2 lb. active ingredient (12.8 oz. formulated) per acre per season. Do not apply within 3 days of harvest.
	Aphids Beet armyworm Fall armyworm Southern armyworm Yellowstriped armyworm Bean leaf beetle Cucumber beetles Japanese beetle adult Sap beetle Plant bug Stink bugs Tarnished plant bug Alfalfa Caterpillar Cloverworm European corn borer Cutworms Western bean cutworm *Corn earworm* Loopers Corn rootworm adult Thrips Webworms Pea weevil Pea leaf weevil Whitefly	0.033-0.10	2.1-6.4	
	Banks grass mite Twospotted spider mite Carmine mite *Lygus* spp.	0.08-0.10	5.12-6.4	

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BRASSICAS

CROP	PEST	DOSAGE LB AI/A	DOSAGE FL OZ/A	REMARKS
Head and Stem Brassica Vegetables including: Broccoli Chinese Broccoli (gailon, white flowering broccoli) Brussels Sprouts Cauliflower Cavalo broccolo Kohlrabi Cabbage *Chinese Cabbage* (napa) Chinese Mustard Cabbage (gai choy)	Cutworms Corn earworm Tobacco budworm Saltmarsh caterpillar Leafhoppers Flea beetles Imported cabbageworm Cucumber beetles Aphids Whitefly Armyworms spp. Loopers Stink bugs Crickets Ground beetles Thrips Wireworm (adults) Diamondback moth	0.033-0.10	2.1-6.4	Apply in a minimum of 2 gals. of finished spray per acre by air or in a minimum of 10 gals. per acre with ground equipment. When applying by air, 1-2 qts. of emulsified oil may be substituted for 1-2 qts. of water in the finished spray. Thorough coverage is essential to achieve control. Do not apply more than 0.5 lb. active ingredient (1 qt.) per acre per season. Do not make more than 5 applications after bloom. Do not make applications less than 7 days apart. Do not apply within 7 days of harvest.
	Banks grass mite Twospotted spider mite Carmine mite Pacific spider mite *Lygus* spp.	0.08-0.10	5.12-6.4	

CANOLA, CRAMBE, RAPESEED

CROP	PEST	DOSAGE LB AI/A	DOSAGE FL OZ/A	REMARKS
Canola Crambe Rapeseed	Aphids Cutworms Diamondback moths Loopers Other Lepidopterous larvae Flea beetle Flea hopper Grasshopper Plant bug Stink bugs Seedpod weevil Thrips Whitefly Armyworms	0.033-0.04	2.1-2.6	Apply in a minimum of 2 gals. of finished spray per acre by air or in a minimum of 10 gals. per acre with ground equipment. When applying by air, 1-2 qts. of emulsified oil may be substituted for 1-2 qts. of water in the finished spray. Thorough coverage is essential to achieve control. Do not apply more than 0.08 lb. active ingredient (5.12 oz.) per acre per season. Do not make applications less than 14 days apart. Do not apply within 35 days of harvest.

CUCURBITS

CROP	PEST	DOSAGE LB AI/A	DOSAGE FL OZ/A	REMARKS
Chayola (fruit) Chinese waxgourd (Chinese preserving melon) Citron Melon Cucumber Gherkin Gourd, edible (includes hyotan, cuouzza) (*Lulla* spp.) (includes hechima, Chinese okra) (*Momordica* spp.) (includes balsam apple, balsam pear, bitter melon, Chinese cucumber) Muskmelon (hybrids and/or cultivars of Cucumis melon) (includes true cantalope, *cantalope*, 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 (includes crook neck squash, scallop squash, straightneck squash, vegetable marrow, zucchini) Squash, winter (includes buttemut squash, calabaza, hubbard squash (C. mixia; C. pepo) includes acorn squash, spaghetti squash) Watermelon (includes hybrids and/or varieties of *Citrullus* spp.).	Aphids Cutworms Cabbage looper Leafhoppers Cucumber beetles Squash bugs Melonworm Pickleworm Plant bug Stink bugs Rindworm Squash vine borer Armyworms Corn earworm Tobacco budworm Grasshopper	0.04-0.10	2.6-6.4	Apply in a minimum of 5 gals. of finished spray per acre by air or in a minimum of 20 gals. per acre with ground equipment. When applying by air, 1-2 qts. of emulsified oil may be substituted for 1-2 qts. of water in the finished spray. Thorough coverage is essential to achieve control. Do not apply more than 0.3 lb. active ingredient (19.2 oz. formulated) per acre per season. Do not make more than two applications after bloom.
	Whitefly Banks grass mite Twospotted spider mite *Carmine mite* *Lygus* spp.	0.08-0.10	5.12-6.4	Do not make applications less than 7 days apart. Do not apply within 3 days of harvest.

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FRUITING VEGETABLES

CROP	PEST	DOSAGE LB AI/A	DOSAGE FL OZ/A	REMARKS
Eggplant Pepper (bell & non-bell), Groundcherry, *Pepino*	Armyworms spp. including Beet armyworm, Fall armyworm, *Southern* yellowstriped armyworm, Cabbage looper, Colorado potato beetle, Corn Earworm, Cucumber beetle, Cutworms, European corn borer, Flea beetle, Leafminers, Loopers, Pepper weevil, Plant bug, Stink bug, Thrips, Tomato hornworm, Tomato pinworm, Vegetable leafminer, Whitefly	0.033-0.10	2.1-6.4	Apply in a minimum of 2 gals. of finished spray per acre by air or in a minimum of 10 gals. per *acre with ground equipment*. When applying by air, 1-2 qts. of emulsified oil may be substituted for 1-2 qts. of water in the finished spray. Thorough coverage is essential to achieve control. Do not make applications less than 7 days apart. Do not apply more than 0.2 lb. active ingredient (12.8 oz. formulated) per acre per season. Do not apply within 7 days of harvest.
	Banks grass mite, Broad mite, Carmine mite, *Lygus* spp., Pacific spider mite, Two spotted spider mite	0.08-0.10	5.12-6.4	

LETTUCE, HEAD

PEST	DOSAGE LB AI/A	DOSAGE FL OZ/A	REMARKS
Aphids Armyworms Corn earworm Cucumber beetles Cutworms Diamondback moth Flea beetles Imported cabbageworm Leafhoppers *Loopers* Salt marsh caterpillar Stinkbug spp. Tobacco budworm Whitefly	0.033-0.10	2.1-6.4	Apply in water as necessary for insect control using a minimum of 15 gals. of finished spray per acre with ground equipment and 5 gals. per acre by air. When applying by air, 1-2 qts. of emulsified oil may be substituted for 1-2 qts. of water in the finished spray. Thorough coverage is essential to achieve control. Do not make applications less than 7 days apart. A maximum of 0.5 lb. active ingredient may be applied per acre per season. Do not apply within 7 days of harvest.
Lygus spp. Carmine mite Twospotted spider mite	0.08-0.10	5.12-6.4	

ARTICHOKE

PEST	DOSAGE LB AI/A	DOSAGE FL OZ/A	REMARKS
Cribrate weevil Artichoke plume moth	0.10	6.4	Apply when pest population reaches damaging threshold and repeat as necessary to maintain control, but not more often than 15-day intervals. **Application by ground:** Apply a full cover spray in a minimum of 75 gals. of finished spray per acre. **Application by air:** Apply specified dosage in a minimum of 10 gals. per acre. Do not exceed 0.5 lb active ingredient per acre per season. A 5-day pre-harvest interval must be observed.

CANEBERRIES

CROP	PEST	DOSAGE LB AI/A	DOSAGE FL OZ/A	REMARKS
Caneberries including: Blackberries *Bingleberries* Dewberries Lowberries Marionberries Olallieberries *Youngberries* Loganberries Raspberries	Leafrollers Orange tortrix Root weevils	0.05-0.10	3.2-6.4	Apply by air or ground equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gals. per acre by air and 50 gals. per ace by ground). One application may be *made pre-bloom and a* second application may be made post-bloom. For **Crown borer,** apply 0.1 lb. ai per acre post-harvest *(fall) or pre-*bloom (spring) as a drench application directed at the crown of plants in a minimum of 200 gallons of *water per acre.* Greater efficacy is observed at higher water gallonages (up to 400 gallons) or in an application prior to a significant rainfall event. Do not make both pre-bloom foliar and pre-bloom drench applications. Do not apply within 3 days of harvest. Do not exceed 0.2 lb. active ingredient per acre per season.
	Spider mites Raspberry crown borer† †Not permitted *in CA.*	*0.10*	6.4	

HOPS

PEST	DOSAGE LB AI/A	DOSAGE FL OZ/A	REMARKS
Aphids Armyworms Cutworms Leafrollers Loopers	0.06-0.1	3.8-6.4	Do not exceed 0.1 lb. ai per acre per application. Do not exceed 0.3 lb. ai per acre per season. A spray interval of 21 days between applications must be maintained. A 14-day pre-harvest interval must be observed. Use of ultra low volume (ULV) application on hops is prohibited. **Application by ground:** For best results, full coverage is essential. Early season recommend 100-150 gals. of spray per acre. Late season recommend 200-250 gals. of spray per acre. For Root weevil control, make a directed spray to the base of the plant. Spray up the vine 3 ft. and the soil surface 1.5 to 2 ft. on either side of plant. **Application by air for late season control of Twospotted spider mites:** Apply no less than 6.4 oz. (0.1 lb. ai) per application in a minimum of 10 gals. per acre.
Root weevils	0.05-0.1	3.2-6.4	
Twospotted spider mite	0.1	6.4	

PEARS

PEST	DOSAGE LB AI/A	DOSAGE FL OZ/A	REMARKS
Aphids Codling moth Cutworms Green fruitworm Leafhoppers Leafminers Leafrollers *Lygus* spp. Plant bugs *Plum curculio* San Jose scale (crawlers) Stink bugs Tarnished plant bugs	0.04-0.2	2.6-12.8	**Application by ground:** Apply as a dilute (minimum of 200 gals. of finished spray per acre) or concentrate (minimum of 50 gals. of finished spray per acre) spray in sufficient water to provide thorough coverage. **Application by air:** Apply the specified dosage in a minimum *of 10 gals. per acre by air.* Do not apply more than 0.5 lb. active per acre per season with no more than 0.45 lb. active per acre applied after petal fall. Apply as necessary to maintain control using a minimum of 30-day spray interval. Apply up to 14 days prior to harvest. Do not graze livestock in treated orchards or cut treated cover crops for feed.
Yellow mite	0.06-0.2	3.8-12.8	
European red mite Twospotted spider mite	0.08-0.2	5.12-12.8	

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CITRUS (1 day phi)*

INSECTS CONTROLLED	RATE OF APPLICATION	METHOD OF APPLICATION
Diaprepes root weevil (*Diaprepes abbreviatus*) Southern blue green citrus root weevil (*Pachnaeus litus*) Blue green citrus root weevil (*Pachnaeus opalus*), Brown leaf notcher (*Epicacrus mexicanus*), Little leaf notcher (*Artipus floridanus*)	16-32 oz. (0.25-0.50 lb. active) per acre	The use of this product protects citrus tree roots from *Diaprepes* and other citrus root weevil feeding by creating a barrier. As Citrus root weevil eggs hatch, the newly hatched larvae (neonates) fall to the soil surface beneath the tree and come into contact with this product as they attempt to burrow into the root zone. Disturbance of the soil beneath the tree should be minimized. Timing of application is very important. Peak emergence of *Diaprepes* adults varies by citrus growing region, and environmental factors such as soil moisture can affect emergence. Usually, two peaks occur for *Diaprepes*, first in the spring then late summer or early fall. Southern blue green and Blue green citrus weevils and Fuller rose beetle usually have a single emergence peak in the spring. Brown and Little leaf notchers usually have three emergence peaks, spring, summer and fall. Since emergence varies by region and season, the best way to time application is to observe the adults. By trapping adults when they are most active (in the morning or and late afternoon) during the spring and summer emergence periods an estimation of numbers can be obtained. Eggs are laid 8 to 10 weeks following the adult emergence from the soil; larvae invasion into the soil will begin 2 to 3 weeks following adult emergence. This product must be applied prior to the dropping of the neonates. Consult local university extension personnel for current information to protect citrus trees from Citrus root weevils and other pests. Apply this product by ground equipment to bare soil beneath citrus trees. This product must be uniformly applied from the trunk to the drip line of the tree, apply in a minimum of 40 gallons of dilute spray per acre. Greater spray volume should insure greater uniformity of coverage. A pre and post-application irrigation may aid in the uniformity of coverage as well. Apply to individual citrus resets, when not in solid planted rows, using hand-gun or shielded sprayer. Peak emergence of *Diaprepes* root weevil generally occurs in the spring. Depending on weather conditions, a minor emergence of *Diaprepes* root weevil may also occur in the fall. If the citrus grove to be treated is in an area where weather conditions are conducive to primary emergence occurring in the spring, 32 fl. oz. formulated product should be used to obtain the longest residual management of *Diaprepes* root weevil. If the citrus grove to be treated is in an area where weather conditions will promote more than one peak of pest emergence, 16 fl. oz. formulated product can be applied early season and 16 fl. oz. formulated product can be applied later in the season. If emergence extends beyond the residual protection of this product, grower is advised to use additional management strategies (i.e. foliar adult control or soil larvae control such as nematodes). Contact your state agricultural Extension Specialist as to the recommendation suited for local conditions.
Fire ant (*Solenopsis* spp.), Asian cockroach (*Blattelia asahinae*)	6.4 to 16 fl. oz. (0.1 to 0.25 lb. ai) per acre	

*Not for use in California
Do not apply through irrigation systems.
Do not allow any application of this product to contact fruit or foliage.
Do not apply more than a total of 32 fl. oz. of formulated product (0.5 lb. a.i.) per acre per year.
Apply the specified dosage in a minimum of 40 gals. of finished spray per acre.
Ground application only. Do not apply by air.

GRAPES*
Apply as directed using the rates in the table below.

PEST	RATE	APPLICATION INSTRUCTIONS
Cutworms, Eastern grape leafhopper, Grape berry moth, Japanese beetles adults, Variegated leafhopper, Western grape leafhopper	3.2 to 6.4 fl. oz. (0.05 to 0.10 lb. ai) per acre	Apply in a minimum of 10 gallons of finished spray by air or in a minimum of 25 gallons of finished spray with ground equipment. When applying by air, 1 to 2 quarts of emulsified oil may be substituted for 1 to 2 quarts of water in the finished spray. Thorough coverage is essential to achieve control. When pest pressure is moderate to severe, use higher rate.
Black vine weevil, Glassywinged Sharpshooter, Twospotted spider mite	6.4 fl. oz. (0.10 lb. ai) per acre	

RESTRICTIONS: *Not for use in CA.
Do not apply more than 0.10 lb. ai per acre per season. Do not apply within 30 days of harvest.

TOMATOES/TOMATILLO (1 day phi)

INSECTS CONTROLLED	RATE OF APPLICATION	METHOD OF APPLICATION
Aphids Armyworms Including: Beet armyworm, Fall armyworm, Southern yellowstriped armyworm Bean leaf beetle Cabbageworm Carmine mite Cloverworm Corn earworm Corn rootworm Cucumber beetles Cutworms Diamondback moth Europoean corn borer Flea beetles Flea hopper Grasshopper Japanese beetle (adult) Leafhoppers Loopers *Lygus* spp. Melonworm Pea weevil *Pea leaf weevil* Pickleworm Plant bug Rindworm Salt march caterpillar Sap beetle Seedpod weevil Squash bugs Stink bug spp. Tobacco Budworm Tarnished plant bug Thrips Whitefly	2.1-5.2 fl. oz. (0.033-0.08 lb. active) per acre	Apply in water as necessary for insect control using a minimum of 15 gals. of finished spray per acre with ground equipment. Thorough coverage is essential to achieve control.
Twospotted spider mite	5.12-6.4 fl. oz. (0.08-0.1 lb. active) per acre	

Do not make applications less than 10 days apart.
A maximum of 4 applications may be applied per season.

SPINACH (40 day phi)

INSECTS CONTROLLED	RATE OF APPLICATION	METHOD OF APPLICATION
Colorado potato beetle Tomato pinworm Tomato hornworm Armyworms Corn earworm Cucumber beetles Cutworms European corn borer Flea beetles Leafminers Loopers Pepper weevil Thrips Whitefly	2.1-6.4 oz. (0.033-0.10 lb. active) per acre	For control of Whiteflies apply foilar treatments of this product by ground or air at rates of up to 0.4 pt. (0.1 lb. active) per acre at minimum 7-day intervals up to a maximum of 4 applications. Do not apply within 40 days of harvest. For control of Fire ants, apply this product to the soil (at planting) or as a foliar treatment by ground or air at rates of up to 0.4 pt. (0.1 lb. active) per acre at minimum 7-day intervals up to a maximum of 4 applications. Do not apply within 40 days of harvest. Apply the specified dosage in 5-50 gals. of finished spray per acre by air or 10-50 gals. finished spray per acre by ground.
Broad mite Banks grass mite Twospotted spider mite Carmine mite *Pacific spider mite* *Lygus* spp. Fire ants	5.12-6.4 oz. (0.08-0.10 lb. active) per acre	

Spinach cont'd.:

Do not make applications less than 7 days apart.
Do not apply more than 0.4 lb.s active ingredient per acre per season.

OKRA

PEST	DOSAGE		REMARKS
	LB/AI/A	FL OZ/A	
Armyworms, Corn earworm, Cucumber beetles, Cutworms, European corn borer, Flea beetles, Leafminers, Loopers, Thrips, Whitefly, Aphids, Japanese beetle (adult), Stink bugs	0.033 to 0.1	2.1 to 6.4	Apply using sufficient water to obtain uniform coverage. Apply as needed. 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.
Lygus spp., Broad mite, Carmine mite, Twospotted spider mite	0.08 to 0.10	5.12 to 6.4	

Do not make applications less than 7 days apart.
Do not apply more than 0.2 pound active ingredient per acre per season.
Do not apply within 7 days of harvest.

CILANTRO, CORIANDER

PEST	DOSAGE		REMARKS
	LB/AI/A	FL OZ/A	
Spotted cucumber beetle, Beet armyworm, Cabbage looper aphids, Whitefly, Flea beetle, Thrips, Leafminers, Cutworms, Grasshoppers, Saltmarsh caterpillar	0.033 to 0.10	2.1 to 6.4	Apply using sufficient water to obtain uniform coverage. Apply as needed. 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.
Twospotted spider mite	0.08 to 0.10	5.12 to 6.4	

Do not make applications less than 7 days apart.
Do not apply more than 0.50 pound active ingredient per acre per season.
Do not apply within 3 days of harvest.

DRIED BEANS AND PEAS such as:

Dried cultivars of: Bean (*Lupinus*); Bean (*Phaseolus*), Field bean, Kidney bean, Lima bean (dry), Navy bean, Pinto bean, Tepary bean; Bean (*Vigna*), Adzuki bean, Blackeyed pea, Catjang, Cowpea, Crowder pea, Moth bean, Mung bean, Rice bean, Southern pea, Urd bean; Broad bean (dry), Chickpea, Guar, Lablab bean, Lentil; Pea (*Piscum*), Field pea; Pigeon pea.

PEST	DOSAGE		REMARKS
	LB/AI/A	FL OZ/A	
Flea beetle, Grasshoppers, Aster leafhopper, Leafhoppers	0.025 to 0.10	1.6 to 6.4	Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment.
Aphids, Beet armyworm, Fall armyworm, Southern armyworm, Yellowstriped armyworm, Bean leaf beetle, Cucumber beetles, Japanese beetle (adult), Sap beetle, Plant bug, Stink bugs, Tarnished plant bug, Alfalfa caterpillar, Cloverworm, European corn borer, Cutworms, Western bean cutworm, Corn earworm, Loopers, Corn rootworm, Thrips (adults), Webworms, Pea weevil, Pea leaf weevil, Whitefly, Imported cabbageworm, Saltmarsh caterpillar, Tobacco budworm, Leaf miner	0.033 to 0.10	2.1 to 6.4	When applying by air, 1- 2 quarts of emulsified oil may be substituted for 1- 2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.
Banks grass mite, Twospotted spider mite, Carmine mite, *Lygus* spp.	0.08 to 0.10	5.12 to 6.4	

Do not apply more than 0.2 lb. active ingredient (12.8 ounces formulated) to peas, or 0.3 active ingredient (19.2 ounces formulated) to beans per acre per season.
Do not apply within 14 days of harvest.
Do not make applications less than 7 days apart.

LEAFY BRASSICAS suc.

Broccoli raab, Bok choy, Collards, Kale, Mizuna, Mustard greens, Mustard spinach, Rape greens.

PEST	DOSAGE		REMARKS
	LB/AI/A	FL OZ/A	
Cutworms, Corn earworm, Tobacco budworm, Saltmarsh caterpillar, Leafhoppers, Flea beetles, Imported cabbageworm, Cucumber beetles, Aphids, Whitefly, Armyworms, Loopers, Stink bugs, Crickets, Ground beetles, Thrips, Wireworm (adults), Diamondback moth, Japanese beetle (adult), Grasshoppers, Aphids	0.033 to 0.10	2.1 to 6.4	Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons per acre with ground equipment. When applying by air, 1- 2 quarts of emulsified oil may be substituted for 1- 2 quarts of water in the finished spray. Thorough coverage is essential to achieve control.
Banks grass mite, Twospotted spider mite, Carmine mite, Pacific spider mite, *Lygus* spp.	0.08 to 0.10	5.12 to 6.4	

Do not apply more than 0.4 lb. active ingredient per acre per season.
Do not make applications less than 7 days apart.
Do not apply within 7 days of harvest.

TUBEROUS AND CORM VEGETABLES:

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

PEST	DOSAGE		REMARKS
	LB/AI/A	FL OZ/A	
Corn wireworm, Tobacco wireworm	0.30 (at-plant)	19.2 (at-plant)	Sniper may be applied as an in-furrow planting time treatment for the control of wireworms, rootworms and white grubs. Apply Sniper at the rate of 0.3 pounds active per acre as an in-furrow spray or T-band spray at planting time. Sniper may be applied as a layby treatment for the control of wireworms, rootworms and white grubs. Apply Sniper to the drill area and cover with soil utilizing cultivation equipment set to throw soil to the drill area. Apply Sniper as a banded spray over the row at a rate of 0.05 to 0.15 pounds active per acre (3.2 to 9.6 ounces formulated) in 10 gallons per acre of spray. Sniper may be applied as a foliar spray for the control of the adult life stages of flea beetles, click beetles (wireworms), cucumber beetles (rootworms), white fringed beetles and May/June beetles (white grubs). Apply Sniper at the rate of 0.1 lbs active per acre (6.4 ounces formulated) in 10 gallons of spray by ground and 3 gallons of spray by air.
Southern potato wireworm, Japanese beetle grubs, June beetle	0.05 (layby)	3.2 (layby)	
Sweet potato flea beetle, Cucumber beetle, Sweet potato weevil, Banded cucumber beetle, Black flea beetle, Whitefringed beetle, White grub, Sugarcane beetle, Rootworms	0.033 to 0.10 (foliar)	2.1 to 6.4 (foliar)	

Do not make more than 2 foliar applications per season no sooner than 21 days apart.
Do not apply more than 0.5 lb active ingredient per acre per season, including soil application.
Do not apply within 21 days of harvest.

TOBACCO

PEST	DOSAGE		REMARKS
	LB/AI/A	FL OZ/A	
Cutworm spp., Tobacco flea beetle (larvae), White grubs, Wireworm, Mole cricket, Armyworm spp., Stalkborers	0.0625 - 0.10	4.0 - 6.4	**Pre transplant soil applications:** Apply 0.0625 to 0.1 lb ai/A in a minimum of 10 gal/A to control soil pests. Use of suitable equipment to incorporate into top 4" of the soil is required to control below ground pests. **At transplant water treatment application:** Apply 0.0625 to 0.1 lb ai/A in a water treatment application volume of 10 to 200 gal/A.

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TOBACCO cont'd.:

PEST	DOSAGE LB/AI/A	DOSAGE FL OZ/A	REMARKS
Aphid spp., Armyworm spp., Flea beetle (adults), Chinch bugs, Stink bugs, Japanese beetles, Grasshoppers, Cutworms spp., Tarnished plant bugs, Green bugs, Thrips, Whiteflies	0.04 - 0.10	2.56 - 6.4	**Foliar applications:** Apply 0.04 to 0.10 lb ai/A per foliar application up to, and including, layby in a minimum of 10 gal/A.
Spider mites *Lygus* spp.	0.1	6.4	

Do not apply more than 0.3 lb ai/A per season.
Do not apply later than layby.
May be tank mixed with other herbicides approved for tobacco use.
Do not make more than 2 foliar applications per season.

SOYBEANS

CROP	PEST	DOSAGE LB AI/A	DOSAGE FL OZ/A	REMARKS
Soybean	Soybean Aphid	0.033-0.10	2.1-6.4	Apply in a minimum of 10 gallons per acre with ground equipment or 2 gallons per acre by aircraft at a minimum of 30 day intervals. Do not apply more than 0.3 lb ai per acre per season. Do not apply within 18 days of harvest
	Spider mites	0.08-0.10	5.12-6.4	

MAYHAW

CROP	PEST	DOSAGE LB AI/A	DOSAGE FL OZ/A	REMARKS
Mayhaw	Plum curculio	0.08-0.10	5.12-6.4	Apply foliar treatments in at least 28 gallons per acre. Apply no more than once every 7 days. Do not apply more than 0.2 lb ai per acre per season. Do not apply within 30 days of harvest.

PEANUT

CROP	PEST	DOSAGE LB AI/A	DOSAGE FL OZ/A	REMARKS
Peanut	Beet armyworm, Corn earworm, *Cutworm spp.*, Fall armyworm, Grasshoppers, Green cloverworm, Leafhoppers, Lesser cornstalk borer, Loopers, Rednecked peanut worm, Southern armyworm, Southern corn rootworm, Stink bugs, Threecornered alfalfa hopper, Velvetbean caterpillar, Yellowstriped armyworm	0.033-0.10	2.1-6.4	Apply foliar treatments in at least 10 gallons per acre at the rate of 6.4 fl. oz./A (0.1 lb. active) per acre at a minimum of 14 day intervals. Do not apply more than 0.5 lb. ai per acre per season. Do not apply within 14 days of harvest. Do not feed green immature plants and peanut hay to livestock.
	Aphids, Spider mites, Thrips, Whitefly	0.08-0.10	5.12-6.4	

ROOT CROPS

CROP	PEST	DOSAGE LB AI/A	DOSAGE FL OZ/A	REMARKS
Burdock, edible Carrot Celeriac Chervil, turnip rooted Chicory Ginseng Horseradish Parsley, turnip rooted Parsnip Radish Radish, oriental Rutabaga Salsify Salsify, black Salsify, Spanish Skirret Turnip	Aphids, Beet armyworm, armyworm, Celery leaf tier, Corn earworm, Cross-striped cabbageworm, Cutworms, Diamondback moth, European corn borer, Fall armyworm, Fire ants, Flee beetles, Green cloverworm, Hornworms, Imported cabbageworm, Loopers, Southern armyworm, Spider mites, Tobacco budworm, Velvetbean caterpillar, Whitefly, *Yellowstriped* armyworm	0.08-0.10	5.12-6.4	Apply foliar treatments in at least 25 gallons water per acre. Apply no more than once every 7 days. Do not apply more than 0.5 lb ai per acre per season. Do not apply within 21 days of harvest.
Garden beet	Aphids, Fire Ants, Flea Beetles, Lepidopterous larvae, Spider mites, Whitefly	0.08-0.10	5.12-6.4	Apply foliar treatments in at least 28 gallons per acre. Apply *no more than once* every 7 days. Do not apply more than 0.2 lb ai per acre per season. Do not apply within 1 day of harvest.

Dealers Should Sell In Original Packages Only.

STORAGE AND DISPOSAL

PESTICIDE STORAGE: Do not freeze. Do not store below 40°F. If crystals are observed, warm material to above 60°F by placing container in warm location. Shake or roll container periodically to re-dissolve solids.

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.

For packages up to 5 gallons: 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. Pressure rinse as follows: Empty the *remaining contents into application equipment or a mix tank and continue to* drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins *to drip.*

For packages greater than 5 gallons and less than 56 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix

Storage & Disposal cont'd.:
tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

For packages greater than 56 gallons: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

For refillable containers: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate *vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate* into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC - 1-800-424-9300.

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