1381-214

4-26-200

EPA Reg. Number: Date of Issuance:



AGENCY
Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

1381-214

APR 2 6 2007

Term of Issuance:

Conditional

Name of Pesticide Product:

Tundra CA

NOTICE OF PESTICIDE:

\_\_\_ Registration \_\_\_ Reregistration (under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Agriliance LLC P.O. Box 64089 St. Paul, MN 55164

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) and (B) provided that you:

- 1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
  - 2. Make the following label change:
    - a. Add "EPA Reg. No. 1381-214".

Submit two copies of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Signature of Approving Official: George LaRocca, PM 13 Insecticide Branch Registration Division (7505P)

Date:

APR 2 6 2007

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### 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.

# TUNDRA® CA Insecticide/Miticide

# For Sale and Use Only in California

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*	25.1%
Inert Ingredients:**	74.9%
	100.0%

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

This product contains 2 pounds active ingredient per gallon.

# **KEEP OUT OF REACH OF CHILDREN**

# **WARNING**

**AVISO** 

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

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

Manufactured for Agriliance, LLC P.O. Box 64089 St. Paul, MN 55164-0089 EPA Reg. No. 1381-EPA Est: No. \_\_\_\_\_ Net Contents\_\_\_\_\_

ACCEPTED
with COMMENTS
in EPA Letter Dated

APR 2 6 2007

Under the Federal Inschilds, Pungicide, and indepticide Act, as amended, for the perfect registered under EPA Res. 1381-214

<sup>\*\*</sup>Contains xylene range aromatic solvents.

	FIRST AID
If swallowed	<ul> <li>Immediately call a poison control center or doctor.</li> <li>Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>Do not give any liquid to the person.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
If inhaled	<ul> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>
If in eyes	<ul> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
If on skin or clothing	<ul> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>

#### **HOTLINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-424-7452 for emergency medical treatment information.

#### **NOTE TO PHYSICIAN**

This product is a pyrethroid. Contains petroleum distillate – vomiting may cause aspiration pneumonia. 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.

For Emergency Assistance Call 1-877-424-7452.

# PRECAUTIONARY STATEMENTS Hazards to Humans (and Domestic Animals)

#### **WARNING**

May be fatal if swallowed. Harmful if inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes or clothing.

#### **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.

#### **Environmental Hazards**

This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. 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 if bees are visiting the treatment area.

#### Physical/Chemical Hazards

Do not use or store near heat or open flame

#### **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.

#### 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, and Shoes plus socks.

#### 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 redissolve 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. Call FMC: 1-800-331-3148.

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**

Metal or Plastic Container: Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Do not cut or weld metal containers.

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

#### Special Equipment

The registration of Tundra CA in California requires that the product 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.

#### **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

Tundra CA Insecticide/Miticide 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.

#### **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.

#### **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 specialists, 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.

Tundra CA insecticide/miticide should be applied continuously for the duration of the water application. Tundra CA 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.

#### **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 wing span 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. Applications 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. 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.

#### **BRASSICAS**

		Dosage		
Crop	Pest	Lb/Al/A	FI. Oz./A	Remarks
Head and Stem Brassica Vegetables, including: Broccoli, Chinese Broccoli (gai lon, white flowering broccoli) Brussels Sprouts Cauliflower Cavalo Broccolo Kohlrabi Cabbage Chinese Cabbage (napa)	Cutworms Corn Earworm Saltmarsh Caterpillar Flea Beetles Imported Cabbageworm Whitefly Armyworms Loopers Crickets Diamondback Moth	0.033 - 0.10	2.1 - 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.  Do not apply more than 0.5 lb. active ingredient (1 quart) per acre per season.
Chinese Mustard Cabbage (gai choy)	Lygus Spp.	0.08 - 0.10	5.12 – 6.4	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.

# CANEBERRIES

· ·		Dos	age	1
Crop	Pest	Lb/Al/A	Fl. Oz./A	Remarks
Caneberries including: Blackberries Bingleberries Dewberries Lowberries Marionberries Olallieberries Youngberries	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 gallons per acre by air and 50 gallons per acre by ground).  One application may be made prebloom and a second application may be made post-bloom.
Loganberries Raspberries	Spider Mites	0.10	6.4	Do not apply within 3 days of harvest.

CANOLA, CRAMBE, RAPESEED

	Dosage		age	
Crop	Pest	Lb/Al/A	Fl. Oz./A	Remarks
Canola Crambe Rapeseed	Cutworms Aphids Cutworms Diamondback Moth 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 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.  Do not apply more than 0.8 lb. active ingredient (5.12 ounces) per acre per season.  Do not make applications less than 14 days apart.  Do not apply within 35 days of harvest.

# COTTON

		- 001	ION
	Dosa	_	
Pest	Lb/Al/A	FI. Oz./A	Remarks
European Corn Borer Soybean (Banded) Thrips Tobacco Thrips	0.02 - 0.1	1.3 – 6.4	Tundra CA may be applied in water or refined vegetable oil (soybean/cottonseed).  Application in Water:
Boll Weevil Bollworm Cabbage Looper Cotton Aphid Cotton Fleahopper Cotton Leafperforator Cutworms Fall Armyworm Lygus Spp. Plant Bugs Saltmarsh Caterpillar Southern Garden Leafhopper Stink Bugs Tobacco Budworm Whitefly Yellow Striped Armyworm	0.04 - 0.1	2.6 - 6.4	Apply in a minimum of 5 gallons per acre with ground equipment or 1 gallon per acre by aircraft. When applying by air, 1 quart of emulsified oil may be substituted for one quart of water in the finished spray.  To Control Boll Weevil: Apply Tundra CA 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.

	Dosage		
Pest	Lb/Al/A	FI. Oz./A	Remarks
Beet Armyworm	0.06 - 0.1	3.8 - 6.4	
Carmine Spider Mite	İ	1.	
Pink Bollworm			·
Twospotted Spider Mite			

Do not apply more than 0.3 pound active per acre per season.

Do not make more than 3 applications per 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<sup>®</sup>, Ammo<sup>®</sup>, Asana<sup>®</sup> XL, Baythroid<sup>®</sup>, Capture<sup>®</sup>, Danitol<sup>®</sup>, Karate<sup>®</sup>, Mustang<sup>®</sup>, Pounce<sup>®</sup> and Scout<sup>®</sup> X-TRA.

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

Pest		Remarks				
			A			
Corn Rootworm Larvae Mexican Northern Southern Western Army Cutworm Cutworm Species Grubs Seed Corn Beetle Seed Corn Maggot True Armyworm or Armyworm Species Wireworm	0046 lb. active per 1,000 linear feet of row  0023 to .0046 lb. active per 1,000 linear feet of row	0.30 fl. oz. per 1,000 linear feet of row  0.15 to 0.30 fl. oz. per 1,000 linear feet of row	open seed futhe planter sicentered over determine the Mix Tundra (following material one-half full open per amout the water or during mixing spray mixture. Applications recommende furrow population of the planter of	to 7 inch T-ba irrow. Position hoe, in front of the row. Use e Tundra CA in CA with water nner. Fill the s with water or lint of Tundra Ca fertilizer. Proving and applicat	ind treatment the spray not the spray not the press when the table beloneeds per across fertilizer in spray tank appliquid fertilizer, CA, then add the sufficient at the suff	zzle behind leel low to e.  the broximately add the the rest of agitation a uniform  tion with in jar vith izer to stant lixing and er than 30%
				more than 0.		e per acre
			per season a	as an at plant	application.	
Row Spacings (inches)			40	38	36	30
Tundra CA (pounds ai per ac			0.060	0.064	0.069	0.080
Tundra CA (formulated ounces per acre)		3.9	4.1	4.4	5.12	

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

			OR SEED (FOLIAR USE)
Pest	Dosa Lb. Al/A.	ge Fl. Oz./A	Remarks & Restrictions
Aphids .	0.033 - 0.10	2.1 – 6.4	Restrictions - Corn
Army Cutworm	0.050 - 0.10	2.1-0.4	Do not apply more than 0.2 pound active per acre per
Beet Armyworm			1 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
Cereal Leaf Beetle			season.
		ļ	
Chinch Bug			Do not apply within 30 days of harvest.
Common Stalk Borer		٠.	
Corn Earworm	,		Do not graze livestock in treated areas or cut treated
Corn Rootworm Adults			crops for feed within 30 days of the last application.
Cucumber Beetle Adult		i	
Cutworm Species			Use of ultra low volume (ULV) application on corn is
European Corn Borer			prohibited.
Fall Armyworm	·	1	, prombited.
Flea Beetle	1	}	Do not make early or ground configurations to seem if
		-	Do not make aerial or ground applications to corn if
Grasshoppers			heavy rainfall is imminent.
Greenbug	1		
Japanese Beetle Adult	İ		Use of Tundra CA on corn is prohibited in all coastal
Leafhopper			counties.
Sap Beetle			
Southern Armyworm			Remarks - Corn
Southern Corn Leaf Beetle		Ĭ	General: Apply in a minimum of 2-5 gallons of finished
Southwestern Corn Borer			spray per acre by aircraft or in a minimum of 10 gallons
Stinkbugs	1		per acre with ground equipment. To improve control by
Tarnished Plant Bug			aircraft, use 5 gallons of finished spray per acre
Thrip			particularly when initial populations are heavier than
True Armyworm or			normal. When applying by air, 1-2 quarts of emulsified of
Armyworm Species		, ·	may be substituted for 1-2 quarts of water in the finished
Webworms	· ·		spray. Thorough coverage is essential to achieve control
Western Bean Cutworm			
Yellowstriped Armyworm			To control ear-attacking pests: Apply Tundra CA just
, ,			before silking and repeat as necessary to maintain
			control.
•			Control.
			Southwestom Com Boner Francis Com Boner
			Southwestern Corn Borer, European Corn Borer:
		· ·	Make application for corn borer control with initial
			application at or shortly before egg hatch.
•	1	[	For control of other insect pests: Apply when pests
		[	first appear and repeat as necessary.
Banks Grass Mite	0.08 - 0.10	5.12 - 6.4	For Control of Mites:
Carmine Mite			Apply for Banks Grass Mite control when colonies first
Twospotted Spider Mite		1	form prior to leaf damage or discoloration and before
wospotted opider wite			dispersal above the bottom third of the plant.
•	1		uispersal above the bottom third of the plant.
•			F
	1		For Twospotted Spider Mite and Carmine Mite control,
	ł		apply when colonies first form prior to leaf damage or
			discoloration and before wide-spread mite dispersal
	1	Į.	throughout the canopy.
•		5	,
,		1	Higher rates will be necessary for heavier initial
		1	populations and corn under heat or drought stress. Field
•			experience with dimethoate at 0.5 lb. active per acre in
		1	tank mixture has demonstrated good control under these
		1	conditions.

# SWEET CORN/SWEET CORN GROWN FOR SEED (AT PLANT USE)

Pest	Dosa				Remark		
Corn Rootworm Larvae Mexican Northern Southern Western Army Cutworm Cutworm Species Grubs Seed Corn Beetle Seed Corn Maggot True Armyworm or Armyworm Species Wireworm	.0046 pound active per 1,000 linear feet of row	0.30 fl. oz. per 1,000 linear feet of row  0.15 to 0.30 fl. oz. per 1,000 linear feet of row	seed shoe Use to per action with various to ma Application fertilizagitat	furrow. Position in front of the he table belowere. Apply in a per acre.  undra 2EC with a 2EC, then a 2EC, then a 2EC, then a de sufficient a dintain a uniformation of Turmixtures, in content and with appear to ensure in the suffer to ensure in formation and with appear to ensure in the suffer  och T-band tree on the spray repress wheel of the spray repressive to determine a minimum of the water or ferray tank appropriate rest or gitation during me spray mixtured and the rest or gitation during spray mixtured and a propriate ratio propriate ratio mixture will standard determined of the second spray mixture will standard and second spray mixture will standard and second spray the secon	nozzle behir centered ove the Tundra 3 gallons of rtilizer in the eximately of the proper f the water g mixing an ure. e or in reconnin furrow propatibility te of Tundra 2 ay in solution	and the planter for the row. The row as 2EC needs of finished the following me-half full amount of for fertilizer, and application the following mended to the following set should be december of the following for the following for the following f	
Do not apply to soil where the Do not apply within 30 days Do not graze livestock in tree Do not apply more than 0.1	of harvest. ated area or cut t	reated crops f	or feed	l within 30 day	s of treatmer	ıt.	
Row Spacings (inches)				40	38	36	30
Tundra 2EC (pounds ai per acre)				0.060	0.064	0.069	0.080
Tundra 2EC (formulated our				3.9	4.1	4.4	5.12

## SWEET CORN/SWEET CORN GROWN FOR SFED

SWEET CORN/SWEET CORN GROWN FOR SEED					
Dosage					
Pest	Lb./Al/A.	Fl. Oz./A	Remarks & Restrictions		
Aphids	0.033 - 0.10	2.1 - 6.4	Restrictions - Sweet Corn		
Army Cutworm			Do not apply more than 0.2 pound active ingredient (12.8		
Aster Leafhopper			ounces formulated) per acre per season.		
Beet Armyworm					
Cereal Leaf Beetle		ı	Do not apply within 1 day of harvest.		
Chinch Bug			•		
Common Stalk Borer			Do not graze livestock in treated areas or cut treated		
Corn Earworm		•	crops for feed within 1 day of the last application.		
Corn Rootworm Adults					
Corn Silkfly			Use of ultra low volume (ULV) application on corn is		
Cucumber Beetle Adult			prohibited.		
Cutworm Species					
European Corn Borer			Do not make aerial or ground applications to corn if		
Fall Armyworm			heavy rainfall is imminent.		
Flea Beetle	· ·				
Grasshoppers			Use of Tundra CA on corn is prohibited in all coastal		
Greenbug			counties.		
Japanese Beetle Adult					
Leafhopper			Remarks - Sweet Corn		
Sap Beetle			General: Apply in a minimum of 2 gallons of finished		
Southern Armyworm			spray per acre by air or in a minimum of 10 gallons per		
Southern Corn Leaf Beetle	]-		acre with ground equipment. When applying by air, 1-2		
Southwestern Corn Borer			quarts of emulsified oil may be substituted for 1-2 quarts		
Stinkbugs			of water in the finished spray. Thorough coverage is		
Tarnished Plant Bug			essential to achieve control.		
Thrip	,	ļ			
True Armyworm or			To control ear-attacking pests: Apply Tundra CA		
Armyworm Species			when silking begins and repeat as necessary to maintain		
Webworms			control.		
Western Bean Cutworm	<u></u>				

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	Dosage		
Pest	Lb./Al/A.	FI. Oz./A	Remarks & Restrictions
Yellowstriped Armyworm			Southwestern Corn Borer, European Corn Borer: Make 2 applications for corn borer control with the initial application at or shortly before egg hatch.
			For control of other insect pests: Apply when pests first appear and repeat as necessary.
Banks Grass Mite Carmine Mite Pacific Spider Mite Twospotted Spider Mite	0.08 - 0.10	5.12 – 6.4	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 wide-spread mite dispersal throughout the canopy.  Higher rates will be necessary for heavier initial populations and corn under heat or drought stress.

# ARTICHOKE

ANTIOTORE					
	Dos	sage			
Pest	Lb./Al/A.	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 gallons of finished spray per acre.		
			Application by air: Apply specified dosage in a minimum of 10 gallons per acre.		
			A 5-day preharvest interval must be observed.		

#### **CUCURBITS:**

		Dosage		
Crop	Pest	Lb./Al/A	Fl. Oz/A	
Chayote (fruit)	Aphids	0.04 - 0.10	2.6 - 6.4	
Chinese waxgourd (Chinese preserving	Cutworms		÷	
Melon)	Cabbage Looper			
Citron melon	Leafhoppers			
Cucumber	Cucumber Beetles	]		
Gherkin	Squash Bugs			
Gourd, edible (includes hyotan, cucuzza)	Armyworms	1 1		
(Luffa spp.) (includes hechima,	Melonworm	1		
Chinese okra)	Pickleworm			
(Momordica spp.) (includes balsam	Plant bug			
apple, Balsam pear, bitter melon,	Stink Bugs			
Chinese cucumber)	Rindworm			
Muskmelon (hybrids and/or cultivars of	Squash Vine Borer			
Cucumis melo) (includes true	Corn Earworm			
cantaloupe, cantaloupe, casaba,	Tobacco Budworm			
Crenshaw melon, golden pershaw	Grasshopper	1 .		
melon, honeydew melon, honey balls,		]		
mango melon, Persian melon, pine-	Whitefly	0.08-0.10	5.12-6.4	
apple melon, Santa Claus melon, and	Twospotted Spider Mite		•	
snake melon)	Carmine Mite			
Pumpkin (Cucurbita spp.)	Banks Grass Mite		•	
Squash, summer (includes crookneck	Lygus spp.			
squash, scallop squash, straightneck		1	•	
squash, vegetable marrow zucchini)			i	
Squash, winter (includes butternut	•			
squash, calabaza, hubbard squash	·			
(C. mixta; C. pepo) includes acorn				
squash, spaghetti squash)		[		
Watermelon (includes hybrids and/or				
varieties of Citrullis spp.)				
			•	
•		}		

Apply in a minimum of 5 gallons of finished spray per acre by air or in a minimum of 20 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.

Do not apply more than 0.3 lb. active ingredient (19.2 ounces formulated) per acre per season. Do not make more than two applications after bloom.

Do not make applications less than 7 days apart.

Do not apply within 3 days of harvest.

LETTICE HEAD

LETTUCE, HEAD					
	Dosa	•			
Pest	Lb./Al/A.	FI. Oz./A	Remarks		
Aphids Armyworms Cabbage Maggot Corn Earworm Cucumber Beetles Cutworms Diamondback Moth Flea Beetles Grasshopper Imported Cabbageworm Leafhoppers Loopers Salt Marsh Caterpillar Stink Bug Spp. Thrips Tobacco Budworm Whitefly	0.033 to 0.10	2.1 to 6.4	Apply in water as necessary for insect control using a minimum of 15 gallons of finished spray per acre with ground equipment and 5 gallons per acre by air. 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.  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.	0.08 to 0.10	5.12 to 6.4			

Dosage			
Pest	Lb./Al/A.	FI. Oz./A	Remarks
Carmine Mite			
Two Spotted Spider Mite			

PEPPERS, BELL AND NON-BELL

	Dosa	ge		
Pest	Lb./Al/A.	Fi. Oz./A	Remarks	
Aphids	0.033 to 0.1	2.1 to 6.4	Apply using sufficient water to obtain uniform coverage.	
Armyworms			Apply as needed. Apply with ground equipment using a	
Corn Earworm			minimum of 10 gallons of finished spray per acre or a	
Cucumber Beetles			minimum of 2 gallons per acre by aircraft.	
Cutworms		ĺ	•	
European Corn Borer		<u> </u>	Do not make applications less than 7 days apart.	
Flea Beetles	.			
Leafhoppers			Do not apply more than 0.20 pound active ingredient per	
Leafminers			acre per season.	
Loopers		1		
Pepper Weevil			Do not apply within 7 days of harvest.	
Stink Bug spp.		1		
Tobacco Budworm				
Thrips				
Whitefly				
Lygus Spp.	0.08 to 0.10	5.12 to 6.4		
Broad Mite				
Carmine Mite		]		
Twospotted Spider Mite				

**SUCCULENT PEAS AND BEANS** 

		Dosa		
Crop ·	Pest	Lb./Al/A	Fl. Oz/A	Remarks
Pea (Pisum spp.):	Flea Beetle	0.025 - 0.10	1.6 - 6.4	Apply in a minimum of 2 gallons of
Dwarf pea	Grasshoppers			finished spray per acre by air or in a
Edible-pod pea	Aster Leafhopper			minimum of 10 gallons per acre with
English pea	Leafhoppers			ground equipment. When applying by
Garden pea	Aphids	0.033 - 0.10	2.1 - 6.4	air, 1-2 quarts of emulsified oil may be
Green pea	Beet Armyworm			substituted for 1-2 quarts of water in
Snow pea	Fall Armyworm			the finished spray. Thorough coverage
Sugar snap pea	Southern Armyworm			is essential to achieve control.
Pigeon pea	Yellowstriped		i	
Bean (Phaseolus	Armyworm	• .		Do not apply more than 0.2 lb. active
spp.)	Bean Leaf Beetle			ingredient (12.8 ounces formulated)
Broadbean	Cucumber Beetles			per acre per season.
(succulent)	Japanese Beetle	•		•
Lima bean (green)	Adult			Do not apply within 3 days of harvest.
Runner bean	Sap Beetle			
Snap bean	Plant Bug			
Wax bean	Stink Bugs			
Bean (Vigna spp.)	Tarnished Plant Bug		,	1
Asparagus bean	Alfalfa Caterpillar			•
Blackeyed pea	Cloverworm		1	
Chinese longbean	European Corn		1	
Cowpea	Borer	· ·		
Moth bean	Cutworms			
Southern pea	Western Bean			
Yardlong bean	Cutworm			•
Jackbean	Corn Earworm			
Soybean (immature	Loopers		·	
seed)	Corn Rootworm	]		,
Sword bean	Adult			
	Thrips	}		
	Webworms			· ·
	Pea Weevil			,
	Pea Leaf Weavil			
	Whitefly		1	

		Dosa	age	
Crop	Pest	Lb./Al/A	FI. Oz/A	Remarks
	Banks Grass Mite Twospotted Spider Mite Carmine Mite Lygus spp.	0.08 – 0.10	5.12 – 6.4	

# EGGPLANT

Dosage			
Pest	Lb./Al/A.	FI. Oz./A	Remarks
Colorado Potato Beetle Corn Earworm European Corn Borer Flea Beetle Cucumber Beetle Cabbage Looper Tomato Pinworm Tomato Hornworm Vegetable Leafminer Whitefly Armyworms Plant Bug Stink Bug Thrips	0.033 - 0.10	2.1 - 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.  Do not make applications less than 7 days apart.  Do not apply more than 0.2 lb. active ingredient (12.8 ounces formulated) per acre per season.  Do not apply within 9 days of harvest.
Banks Grass Mite Twospotted Spider Mite Carmine Mite Pacific Spider Mite Lygus spp.	0.08 - 0.10	5.12 - 6.4	

#### HOPS

		H	OPS ·
	Dos	•	
Pest	Lb./Al/A.	FI. Oz./A	Remarks
Aphids Armyworms	0.06 - 0.1	3.8 - 6.4	Do not exceed 0.1 lb ai per acre per application.
Cutworms Leafrollers			Do not exceed 0.3 lb ai per acre per season.
Loopers			A spray interval of 21 days between applications must be
Root Weevils	0.05 - 0.1	3.2 - 6.4	maintained.
			A 14-day pre-harvest interval must be observed.
Twospotted Spider Mite	0.1	6.4	Application by ground: For best results, full coverage is essential. Early season recommend 100-150 gallons of spray per acre. Late season recommend 200-250 gallons of spray per acre.
			For Root Weevil control, make a directed spray to the base of the plant. Spray up the vine 3 feet and the soil surface 1.5 to 2 feet on either side of the 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 gallons per acre.
			Use of ultra low volume (ULV) application on hops is prohibited.

TOMATOES (1 day phi)

Armyworms, including: (0.033 – 0.08 lb. active) per acre with green Southern Yellowstriped Armyworm	Method of Application
Bean Leaf Beetle Cabbageworm Carmine Mite Cloverworm Corn Earworm Corn Rootworm Cucumber Beetles Cutworms Diamondback Moth European 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 Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	n water as necessary for insect control using num of 15 gallons of finished spray per acre ound equipment.
Cabbageworm Carmine Mite Cloverworm Corn Earworm Corn Rootworm Cucumber Beetles Cutworms Diamondback Moth European 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 Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	gh coverage is essential to achieve control.
Cloverworm Corn Earworm Corn Rootworm Cucumber Beetles Cutworms Diamondback Moth European 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 Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	3
Corn Earworm Corn Rootworm Cucumber Beetles Cutworms Diamondback Moth European 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 Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	
Corn Rootworm Cucumber Beetles Cutworms Diamondback Moth European 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 Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	
Cucumber Beetles Cutworms Diamondback Moth European 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 Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	
Cutworms Diamondback Moth European 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 Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	
Diamondback Moth European 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 Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	·
European 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 Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	
Flea Beetles Flea Hopper Grasshopper Japanese Beetle (Adult) Leafhoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil Pickleworm Plant Bug Rindworm Salt Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	
Flea Hopper Grasshopper Japanese Beetle (Adult) Leafhoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil Pickleworm Plant Bug Rindworm Salt Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	•
Grasshopper Japanese Beetle (Adult) Leafhoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil Pickleworm Plant Bug Rindworm Salt Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	
Japanese Beetle (Adult) Leafhoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil Pickleworm Plant Bug Rindworm Salt Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	
Leafhoppers Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil Pickleworm Plant Bug Rindworm Salt Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	
Loopers Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil Pickleworm Plant Bug Rindworm Salt Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	
Lygus Spp. Melonworm Pea Weevil Pea Leaf Weevil Pickleworm Plant Bug Rindworm Salt Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	•
Pea Weevil Pea Leaf Weevil Pickleworm Plant Bug Rindworm Salt Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	
Pea Leaf Weevil Pickleworm Plant Bug Rindworm Salt Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	
Pickleworm Plant Bug Rindworm Salt Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	
Plant Bug Rindworm Salt Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	
Rindworm Salt Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	
Salt Marsh Caterpillar Sap Beetle Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	·
Sap Beetle Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	
Seedpod Weevil Squash Bugs Stink Bug Spp. Tobacco Budworm	•
Squash Bugs Stink Bug Spp. Tobacco Budworm	
Stink Bug Spp. Tobacco Budworm	
Tobacco Budworm	
Thrips	•
Twospotted Spider Mite	,
Whitefly	

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	2.1 to 6.4 oz. (0.033 to 0.10 pound active) per acre	For control of Whiteflies apply foliar treatments of Tundra® insecticide 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 Tundra® insecticide 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.
Whitefly Broad Mite Banks Grass Mite Twospotted Spider Mite Carmine Mite Pacific Spider Mite	5.12 to 6.4 oz. (0.08 to 0.10 pound active) per acre	Apply the specified dosage in 5-50 gallons of finished spray per acre by air or 10-50 gallons finished spray per acre by ground.

Insects Controlled	Rate of Application	Method of Application
Lygus Spp. Fire Ants		
Do not make applications less than 7	days apart.	
Do not apply more than 0.4 pounds a	ctive ingredient per acre per se	eason.

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