0912312008



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

SEP 2 3 2008

Christopher Davis FMC Corp. Agricultural Products Group 1735 Market Street Philadelphia, PA 19103

Subject:

Updated Spray Drift Language for Pyrethroid

Agricultural Use Product as per EPA letter dated February 21,

2008

Dear Mr. Davis:

The Agency is in receipt of your Applications for Pesticide Notification dated July 22, 2008 for the following products:

Capture 2 EC Insecticide/Miticide (EPA Reg. No. 279-3069)
Brigade WSB Insecticide/Miticide (EPA Reg. No. 279-3108)
Capture 2EC-CAL Insecticide/Miticide (EPA Reg. No. 279-3114)
Double Threat CP Insecticide (EPA Reg. No. 279-3257)
Double Threat Insecticide (EPA Reg. No. 279-3271)
Brigade 2EC Insecticide/Miticide (EPA Reg. No. 279-3313)

Registration Division (RD) has conducted a review of this request for it applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The labels submitted with the applications has been stamped "Notification" and will be placed in our records.

Note under Buffer Zones "streams" should read "permanent streams" and "ponds" should read "natural ponds". Also, correct spelling of "greated" to "greater" under aerial applications.

If you have any questions, please call me at (703) 305-6100.

Sincerely,

Legina Fauslii-Smith for George T. LaRocca

Product Manager 13

Insecticide Branch

Registration Division (7505P)

Enclosure

United States

Registration
Amendmen

Form Approved. OMB No. 2070-0080.

OPP Identifier Number

\$EPA	Environmental Washii	Protection and protection of the protection of t	Agency		<u> </u>	Amendi Other	ment		
		Application 1	or Pesti	cide - Se	ction l			· · · · · · · · · · · · · · · · · · ·	
1. Company/Product Number 279-3114	or .		2. EPA LaRo	A Product Ma	anager		3. P	roposed Cla	ssification Restricted
4. Company/Product (Name Capture 2EC-CAL Inse			PM# 13						
5. Name and Address of App FMC Corporation 1735 Market Street Philadelphia, PA 191		de)	(b)(i), to: EPA		t is simil	ar o Naul	FIDA	ijok ition	ction 3(c)(3) and labeling
			Section -	- 11					
Amendment - Explain Resubmission in resp Notification - Explain	oonse to Agency letter	dated		Final print Agency le "Me Too" Other - Ex	Applicat	ion.	e to		
Explanation: Use additional control of the control	r Agency letter of Februa	ary 21, 2008 those necessary to	comply with E	EPA's letter of	February	21, 2008			
 			Section -	111		···			
1. Material This Product Will Child-Resistant Packaging Yes No * Certification must be submitted	Unit Packaging Yes No If "Yes" Unit Packaging wgt.	No. per	Yes No	Packaging No. per contain		2. Type of	Container Metal Plastic Glass Paper Other (S		
	Container	4. Size(s) Retail Co	ontainer			ation of Lab	el Directio	ons .	
6. Manner in Which Label is	Affixed to Product	Lithograph Paper glued Stenciled		Oth	er	· · · · · · · · · · · · · · · · · · ·			
		s	ection -	<u>IV</u>					
1. Contact Point Complete	items directly below fo	r identification of	individual to	be contacted	, if neces	sary, to pro	cess this	application.	1
Name Christopher Davis	·	Title Reg	istration Ma	nager	·			No. (Includ 8334ა წაგა	de Area Code)
l acknowledge that an both under applicable	ments i have made on t y knowlinglly false or n law.		nt may be pu					6. Date Ap	
2. Signature	20m		istration Mana	ager	· · · · · · · · · · · · · · · · · · ·	·		() () () () () () () () () () () () () (
4. Typed Name Christopher Davis	3	5. Da	to 8/27	108					

Certification with Respect to Label Integrity

version: 9/11/02

I certify that the information (including, but not limited to, text, tables, and graphics) contained in the electronic file identified below by file name and submitted with this certification is the same information as that on the paper copies of these documents included with this submission.

PROPOSED LABEL							
EPA Registration #	Date Submitted to EPA	Electronic file name					
279-3114	8/27/08	000279-03114.20080827.SprayDriftNotif.pdf					

I certify that the statements that I have made on this form are true, accurate, and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.

Signature

Signature

Christopher Davis

Name (typed)

Registration Manager

Title

FMC Corporation

Agricultural Products Group 1735 Market Street Philadelphia Pennsylvania 19103 215 299 6000

August 27, 2008



Mr. George LaRocca, PM-13 United States Environmental Protection Agency Document Processing Desk (AMEND)(E-SUB) Office of Pesticide Programs (H7504P) Room S-4900, One Potomac Yard 2777 South Crystal Drive Arlington, VA 22202

Dear Mr. LaRocca:

Subject: Capture® 2EC-CAL Insecticide/Miticide, EPA Reg. No. 279-3114 Amendment to Label- Updated Spray Drift Language

FMC is amending the label for the subject product as required under the Agency's letter of February 21, 2008: Updated Spray Drift Language for Pyrethroid Agricultural Use Products.

To support this submission and to process this request, enclosed please find the following:

- Completed Application for Pesticide (EPA Form 8570-1) form
- Two copies of the draft labeling, including one with the change hi-lited
- Completed Certification with Respect to Label Integrity form
- A Compact Disk containing the label as amended

Since this amendment is Agency initiated, it is not covered under the EPA's Fee for Service categories for label amendments, and there is no fee required.

FMC trusts that this information is sufficient for the Agency to process this submission. If the Agency has any questions concerning this matter, please feel free to contact me at (215) 299-6334.

Sincerely.

Christopher Davis

Registration Manager, FMC Corporation

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.

SEP 2 3 2008



Insecticide/Miticide For Sale and Use Only in California

EPA Est. 279-EPA Reg. No. 279-3114 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%

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

**Contains xylene range aromatic solvents.

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



KEEP OUT OF REACH OF CHILDREN WARNING **AVISO**

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

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.)

See other panels for additional precautionary information.



FMC Corporation Agricultural Chemical Group Philadelphia PA 19103

FIRST AID

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

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

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

If 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.

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 1-800-331-3148 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 (800) 331-3148.

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:

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, and 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, and 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 guin, using tobacco or using the toilet.

Remove clothing immediately if pesticide geto-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 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 Capture 2 EC-CAL 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

Capture 2-EG-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, tack 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.

for treatment.

Capture [®] 2 EC insecticide/miticide should be applied continuously for the duration of the water application. Capture 2 EC 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.

BUFFER ZONES

Vegetative Buffer Zones

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

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

For guidance, refer to the following publication for information on constructing and maintaining effective buffers: Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 21pp. http://www.in.nrcs.usda.gov/technical/agronomy/ ewconbuf.pdf.

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

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

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

Spray Drift Requirements

Wind Direction and Speed

Only apply this product if the wind direction favors on-target deposition. Do not apply when the wind velocity exceeds 15 mph.

Temperature Inversion

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

Droplet Size

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

Additional Requirements for Ground Applications

Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

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

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

Additional Requirements for Aerial Applications

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

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

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

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

BRASSICAS

CROP	PEST	DOSAGE		REMARKS
CROP	FEST	LB/AI/A	FL OZ.A	KEWAKKS
Head and Stem Brassica Vegetables including: Broccoli Chinese Broccoli (gai lon, white flowering broccoli) Brussels Sprouts Cauliflower	Cutworms Com Earworm Saltmarsh Caterpillar Flea Beetles Imported Cabbagewor m Whitefly Armyworms Loopers Crickets Diamondback Mothd	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.
Cavalo broccolo Kohlrabi Cabbage Chinese	Lygus Spp.	0.08 - 0.10	5.12 - 6.4	Do not apply more than 0.5 lb. active ingredient (1 quart) per acre per season.
 Cabbage (napa) Chinese Mustard Cabbage (gai choy)	,			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

CROP	PEST	DOS	AGE	REMARKS	
CROP	PESI	LB/AI/A	FL OZ.A	KEWIAKKS	
Bingleberries		0.05 - 0.10	3.2 - 6.4	Apply by air or ground equipment using sufficient water to obtain full coverage of foliage.	
Dewberries Lowberries Marionberries Olallieberries	Spider Mites	0.10	6.4	(minimum of 10 gallons per acre by air and 50 gallons per acre by ground).	
Youngberries Loganberries Raspberries				One application may be made pre-bloom and a second application may be made post bloom.	
				Do not apply within 3 days of harvest.	

CANOLA, CRAMBE, RAPESEED

CROP	PEST	DOS LB/AI/A	JEL OZ.A	υ (REMARKS
		UU	1111	£ .	U ()

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Canola Crambe Rapeseed	Cutworms Aphids Cutworms Diamondback Moth Loopers Other	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
	Lepidopterou s Larvae Flea Beetle Flea Hopper Grasshopper Plant Bug Stink Bugs			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.
	Seedpod Weevil Thrips Whitefly Armyworms			Do not apply more than 0.08 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

CROP	PEST		AGE	REMARKS
		LB/AI/A	FL OZ.A	NEWARKS
Cotton	European Corn Borer Soybean (Banded) Thrips Tobacco Thrips	0.02-0.1	1.3-6.4	Capture 2 EC-CAL may be applied in water or refined vegetable oil (soybean/cottonseed). Application in Water. Apply in a minimum of 5
	Boll Weevil Bollworm Cabbage Looper Cotton Aphid Cotton	0.04-0.1	2.6-6.4	gallons per acre with ground equipment or 1 gallon per acre by aircraft. When applying by air, 1 quart of emulsified oil may be
	Fleahopper Cotton Leafperforato r Cutworms Fail Armyworm Lygus Spp. Plant Bugs Saltmarsh Caterpillar Southern Garden Leafhopper Stink Bugs Tobacco Budworm Whitefly Yellow Striped Armyworm			substituted for one quart of water in the finished spray. To Control Boll Weevil: Apply Capture 2 EC-CAL 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 main-tain control. Higher rates will be required once a damaging threshold is established.
	Beet Armyworm Carmine Spider Mite Pink Bollworm Twospotted Spider Mite	0.06-0.1	3.8-6.4	

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®, Ammo®, Asana® XL, Baythroid®, Capture®, Danitol®, Karate®, Mustang, Pounce® and Scout® X-TRA.

Field Corn (Grain and Silage), Popcorn, Field Corn Grown For Seed (AT PLANT USE)

DOSAGE						
PEST			REMARKS			
	LB/AI/A	FL OZ.A				
Com Rootworm Larvae	.0046 pound active per	0.30 fluid	Apply as a 5 to 7 inch T-			
Mexican Northern	1.000 linear	ounces per 1.000 linear	band treatment over an			
Southern	feet of row	feet of row	open seed furrow. Position			
Western			the spray nozzle behind the planter shoe, in front of the			
Army Cutworm	.0023 to	0.15 to 0.30	press wheel centered over			
Cutworm Species	.0046 pound	fluid ounces	the row. Use the table			
Grubs	active per 1,000 linear	per 1,000 linear feet	below to determine the			
Seed Corn Beetle Seed Corn Maggot	feet of row	of row	Capture 2EC needs per			
True Armyworm or	1000 011011	ULION	acre. Apply in a minimum of 3 gallons of finished spray			
.Armyworm Species			per acre.			
Wireworm			Mix Capture 2EC with water			
			or fertilizer in the following			
			manner. Fill the spray tank			
· ·			approximately one-half full			
			with water or liquid fertilizer,			
		İ	add the proper amount of Capture 2EC, then add the			
			rest of the water or fertilizer.			
			Provide sufficent agitation			
			during mixing and			
			application to maintain a			
			uniform spray mixture.			
			Applications of Capture			
			2EC 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 Capture			
			2EC 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			
	j		Do not graze livestock in			
			treated area or cut treated			
		i	crops for feed within 30 days of treatment.			
	·		Do not apply more than 0.1			
,			pound active per acre per			
			season as an at plant			
			application.			
Row Spacings (inches)		40	38 36 30			
Capture 2EC (pounds ai)	per acre)	0.060	0.064 0.069 0.080			
Capture 2EC (formulated or		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)

PEST LB/Al/A Aphids Army Cutworm Beet Armyworm Cereal Leaf Beetle Chinch Bug Common Stalk Borer Com Earworm Corn Rootworm Adults Cucumber Beetle Adult Cutworm Species European Corn Borer Fall Armyworm Flea Beetle Grasshoppers Greenbug Japanese Beetle Adult Leafhopper Sap Beetle Southern Armyworm Southern Corn Leaf Beetle Southern Corn Borer Stinkbugs Tarnished Plant Bug Thrip True Armyworm or Armyworm Species Western Bean Cutworm Yellowstriped Armyworm	DEST	DOS	AGE
Army Cutworm Beet Armyworm Cereal Leaf Beetle Chinch Bug Common Stalk Borer Com Rootworm Adults Cucumber Beetle Adult Cutworm Species European Corn Borer Fall Armyworm Flea Beetle Grasshoppers Greenbug Japanese Beetle Adult Leafhopper Sap Beetle Southern Armyworm Southern Corn Borer Stinkbugs Tarnished Plant Bug Thrip True Armyworm or Armyworm Species Webworms Western Bean Cutworm Yellowstriped Armyworm	PEST	LB/AI/A	
	Army Cutworm Beet Armyworm Cereal Leaf Beetle Chinch Bug Common Stalk Borer Com Rootworm Adults Cucumber Beetle Adult Cutworm Species European Corn Borer Fall Armyworm Flea Beetle Grasshoppers Greenbug Japanese Beetle Adult Leafhopper Sap Beetle Southern Armyworm Southern Corn Leaf Beetle Southern Corn Leaf Beetle Southwestern Corn Borer Stinkbugs Tarnished Plant Bug Thip True Armyworm or Armyworm Species Webworms Western Bean Cutworm	0.033-0.10	2.1-6.4
Banks Grass Mite 0.08-0.10 5.12-6.4 Carmine Mite Twospotted Spider Mite	Banks Grass Mite Carmine Mite	0.08-0.10	5.12-6.4

RESTRICTIONS—Corn

Do not apply more than 0.2 pound active per acre per 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 Capture 2EC 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 Capture 2 EC-CAL just before silking and repeat as necessary to maintain control.

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

For control of other insect pests: Apply when pests first appear and repeat as necessary.

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. Field experience with dimethoate at 0.5 active per acre in tank mixture has demonstrated good control under these conditions.

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

DOSAGE				
PEST			REMARKS	
PEST Corn Rootworm Larvae Mexican Northern Southern Western Army Cutworm Cutworm Species Grubs Seed Corn Beetle Seed Corn Maggot True Armyworm or Armyworm Species Wireworm	DOS LB/AI/A .0046 pound active per 1,000 linear feet of row .0023 to .0046 pound active per 1,000 linear feet of row.	FL OZ.A 0.30 fluid ounces per 1,000 linear feet of row 0.15 to 0.30 fluid ounces per 1,000 linear feet of row	REMARKS 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 Capture ZEC needs per acre. Apply in a minimum of 3 gallons of finished spray per acre. Mix Capture 2EC 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 Capture 2EC, then add the rest of the water or fertilizer. Provide sufficent agitation during mixing and application to maintain a uniform spray mixture. Applications of Capture 2EC 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 Capture 2EC 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 pound active per acre per season as an at plant application.	
Row Spacings (inches)		40	38 36 30	
Capture 2EC (pounds ai	per acre)	0.060	0.064 0.069 0.080	
Capture 2EC (formulated of	unces per acre)	3.9	4.1 4.4 5.12	

SWEET CORN SWEET CORN GROWN FOR SEED

PEST	DOS	AGE
PEST	LB/AI/A	FL OZ.A
Aphids Army Cutworm Aster leafhopper Beet Armyworm Cereal Leaf Beetle Chinch Bug Common Stalk Borer Corn Earworm Corn Rootworm Adults Com Silkfly Cucumber Beetle Adult Cutworm Species European Corn Borer Fall Armyworm Flea Beetle Grasshoppers Greenbug Japanese Beetle Adult Leafhopper Sap Beetle Southern Armyworm Southern Corn Leaf Beetle Southwestern Corn Borer Stinkbugs Tamished Plant Bug Thrip True Armyworm or Armyworm Species Webworms Western Bean Cutworm	0.033-0.10	2.1-6.4
Banks Grass Mite Carmine Mite	0.08-0.10	5.12-6.4
Pacific Spider Mite Twospotted Spider Mite		

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RESTRICTIONS—Sweet Corn

Do not apply more than 0.2 pounds 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 Capture 2EC 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 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.

To control ear-attacking pests: Apply Capture 2EC-CAL when silking begins and repeat as necessary to maintain control.

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.

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 cornunder heat or drought stress.

ARTICHOKE

PEST	DOSAGE		REMARKS
PESI	LB/AI/A	FL OZ.A	KEWAKKS
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:

	 	חחפ	AGE	
CROP	PEST	LB/AI/A	FL OZ.A	REMARKS
Chayote (fruit) Chinese waxgourd (Chinese waxgourd (Chinese preserving melon) Citron melon Cucumber Gherkin Gourd, edible (includes hyotan, cucuzza) (Luffa spp.) (includes hechima, Chinese okra) (Momordica	Armyworms Melonworm Pickleworm Plant bug Stink Bugs Rindworm Squash Vine Borer Com Earworm Tobacco Budworm Grasshopper	0.04 - 0.10	2.6 - 6.4	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
spp.) (includes balsam apple, balsam pear, bitter melon, Chinese cucumber) Muskmelon (hybrids andlor cultivars of Cucumis melo) (includes true cantaloupe, casaba, crenshaw melon, polden pershaw melon, honey balls, mango melon, pineapple melon, Santa Ctaus melon, and snake	Whitefly Twospotted Spider Mite Carmine Mite Banks Grass Mite Lygus spp.	0.08 - 0.10	5.12 - 6.4	bloom. Do not make applications less than 7 days apart. Do not apply within 3 days of harvest.
melon) Pumpkin				
(Cucurbita spp.) Squash, summer (includes crookneck squash, scallop squash, straightneck squash,				
vegetable marrow, zucchini) Squash, winter (includes butternut squash, calabaza, hubbard squash (C. mixta; C. pepo) includes acorn squash, spaghetti squash) Watermelon (includes hybrids and/or			Code was	
varieties of Citrullus spp.).			A. S. S. G.	

LETTUCE, HEAD

LLI 100L, IILAD				
PEST	DOSAGE		REMARKS	
PESI	LB/AI/A	FL OZ.A	REMARKS	
Aphids Armyworms Cabbage Maggot Com 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	
Lygus Spp. Carmine Mite	0.08 to 0.10	5.12 to 6.4	ingredient may be applied per acre per season.	
Two Spotted SpiderMite			Do not apply within 7 days of harvest.	

PEPPERS, BELL AND NON-BELL

PEST	DOSAGE		REMARKS
PESI	LB/AI/A	FL OZ.A	REMARKS
Aphids Armyworms Corn earworm Cucumber Beetles Cutworms European Corn Borer Flea Beetles Leafnoppers Leafminers Loopers Pepper Weevil Stink bug spp Tobaco budworm Thrips Whitefly	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. Do not make applications less than 7 days apart. Do not apply more than 0.20 pound active ingredient per acre per season.
Lygus Spp. Broad Mite Carmine Mite Two Spotted Spider Mite	0.08 to 0.10	5.12 to 6.4	Do not apply within 7 days of harvest.

SUCCULENT PEAS AND BEANS

		DOS	AGE	
CROP	PEST	LB/AI/A	FL OZ.A	REMARKS
Pea (Pisum spp.): Dwarf pea, Edible-pod	Flea Beetle Grasshoppers Aster Leafhopper Leafhoppers	0.025 - 0.10	1.6 - 6.4	Apply in a minimum of 2 gallons of finished spray per acre by air or in a minimum of 10 gallons
pea, English pea Garden pea, Green pea, Snow pea,	Aphids Beet Armyworm Fall	0.033 - 0.10	2.1 ~ 6.4	per acre with ground equipment. When applying by air, 1-2 quarts of emulsified oil may_be_substituted for
Sugar snap 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,	Amyworm Southern 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			may_De_substituted_for_ 1-2 quarts 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 ounces formulated) per acre per season. Do not apply within 3 days of harvest
Southern pea Yardlong bean Jackbean Soybean (immature seed) Sword bean	Com Earworm Loopers Com Rootworm Adult Thrips Webworms Pea Weevil Pea Leaf Weevil Whitefly Banks Grass	0.08 - 0.10	5.12 - 6.4	
	Mite Twospotted Spider Mite Carmine Mite Lygus Sp	0.00 - 0.10	5.12 - 0.4	

EGGPLANT

<u> </u>	-/1111			
CROP	PEST		AGE	REMARKS
		LB/AI/A	FL OZ.A	KEWAKKS
Eggplant	Colorado Potato Beetle Com Earworm European Corn Borer Flea Beetle Cucumber Beetle Cabbage Looper Tornato 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

PEST	DOSAGE		REMARKS
	LB/Al/A	FL OZ.A	KEWAKKS
Aphids Armyworms Cutworms Leafrollers Loopers	0.06 to 0.1	3.8 to 6.4	Do not exceed 0.1 lb ai per acre per application. Do not exceed 0.3 lb ai per acre per season.
Root Weevils	0.05 to 0.1	3.2 to 6.4	A spray interval of 21 days between applications must
Twospotted spider mite	0.1	6.4	be maintained. A 14 day pre-harvest interval must be observed. 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-oneither 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.

PEARS -

PEST	DOS	AGE	REMARKS
PESI	LB/AI/A	FL OZ.A	KEWAKKS
Aphids Codling Moth Cutworms Green Fruitworm Leafhoppers Leafminers Leafrollers Lygus spp. Plant Bugs Plum Curculio San Jose Scale (Crawlers) Stink Bugs Tamished Plant Bugs	0.04 to 0.2	2.6 to 12.8	Application by ground: Apply as a dilute (minimum of 200 gallons of finished spray per acre) or concentrate (minimum of 50 gallons 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 gallons per acre by air.
Twospotted Spider Mite Yellow Mite	0.06 to 0.2	8.8 to 12.8	Do not apply more than 0.5 pound active per acre per
European Red Mite	0.08 to 0.2	5.12 to 12.8	season with no more than 0.45 pound 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.

CITRUS (1 day phi)

Insects Controlled	Rate of Application	Method of Application
Diaprepes Root Weevil (Diaprepes abbreviatus) Fire ants Asian cockroach	1.1	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 fluid ounces 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 fluid ounces formulated product can-be-applied-early-season-and 16 fluid ounces formulated product can be applied later in the season.
		If emergence extends beyond the residual protection of Capture 2EC, 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.

Do not apply through imigation systems.

Do not allow any application of Capture 2EC to contact fruit or foliage.

Do not apply more than a total of 32 fluid ounces of formulated product (0.5 lb. a.i.)per acre per year.

Apply the specified doseage in a minimum of 30 gallons of finished spray per acre.

Ground application only. Do not apply by air.

TOMATOES (1 day phi)

A maximum of 4 applications may be applied per season.

SPINACH (40 day phi)

<u> </u>					
Insects Controlled	Rate of Application	Method of Application			
Colorado Potato Beetle Tomato Pinworm Tomato Horrworm Armyworms Com earworm Cucumber Beetles Cutworms European Corn Borer Flea Beetles Leafminers Loopers	2.1 to 6.4 ounces (0.033 to 0.10 pound active) per acre	For control of whiteflies apply foliar treatments of Capture® 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 Capture® insecticide to the soil (at			
Pepper Weevil Thrips		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			
Whitefly Broad Mite Broad Mite Banks Grass Mite Twospotted Spider Mite Carmine Mite Pacific Spider Mite Lygus Spp. Fire Ants	5.12 to 6.4 ounces (0.08 to 0.10 pound active) per acre	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 gallons of finished spray peracre by air or 10-50 gallons			
THE AIRS		finished spray per acre by ground.			

Do not make applications less than 7 days apart.

Do not apply more than 0.4 pounds active ingredient per acre per season.

Dealers Should Sell in Original Packages Only. Conditions of Sale and Limitation of Warranty and Liability:

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

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