

APR 04 1995

John S. Thornton
Miles Inc.
8400 Hawthorn Road
P.O. Box 4913
Kansas City, Mo 64120-0013

Dear Mr. Thornton:

Subject: Conditional Amendment for vegetables
crop grouping and grapes
Admire 2 Flowable
EPA Registration No. 3125-422
Your resubmission of March 31, 1995

The Agency is conditionally approving an amendment to the registration of the above-referenced product under the authority of section 3(c)(7)(b) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). To maintain your registration you must:

1. Submit a small scale prospective groundwater monitoring study for potatoes and broccoli. Monitoring must continue for at least two full years. Information, coordination and reports are due to the Agency according to the schedule listed below:

- a) June 1, 1995 - Site Approval
Discussion* with EPA personnel.
- b) July 15, 1995 - Ground water protocols to be submitted
(site specific).
- c) August 1995 - Discussion* with EPA personnel.
- d) September 30, 1995 - Site instrumentation must be
submitted.
- e) Spring 1996 - Application of test material. Ground
water monitoring to commence.

* Discussions can take the form of conference calls or meeting where needed.

10/16

- f) Spring 1998 - Submit request to terminate study. Monitoring must continue until EPA grants permission to terminate.
- g) Once the monitoring studies have started quarterly progress reports must be submitted to the Agency.
- h) Final reports must be submitted within 6 months of agreement to terminate the ground water studies.

2. You will submit production information (pounds or gallons produced) for this product for the fiscal year in which the use on fruiting and leafy vegetables, lettuce and grapes are conditionally registered, in accordance with FIFRA section 29. The fiscal year begins October 1 and ends September 30. The production information will be submitted to the Agency on later than November 15, following the end of the preceding fiscal year.

3. Make the following label change:

Add the following statement to the Environmental Hazard Statement: "This product is highly toxic to aquatic invertebrates."

4. Submit five (5) copies of your final printed labeling before you release the product for shipment.

You should note that if you fail to satisfy any of the conditions imposed on this registration, e.g., you fail to submit the required data by the specified deadlines or the data submitted were not generated in accordance with the applicable test guidelines, EPA may issue a Notice to cancel this amendment under section 6(e) of FIFRA.

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

Sincerely yours,

DHE

Dennis H. Edwards, Jr.
Product Manager (19)
Insecticide Rodenticide Branch
Registration Division (7505C)

Enclosure

ADMIRE 2 Flowable

422-8474.YLD

U. S. LABEL

Base Pre-Reg (8474)

Reason to Issue: To add additional mitigation
language for California and Florida counties
and to add complete label language.

Date of Draft: 03/31/95(Pre-Reg)(C)
Supersedes Pre-Reg Draft Dated: 03/17/95
and 02/06/95

ADMIRE 2 Flowable Systemic Insecticide

FOR CONTROL OF CERTAIN INSECTS INFESTING VEGETABLES AND GRAPES

ACTIVE INGREDIENT:

Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]

-N-nitro-2-imidazolidinimine 21.4%

INERT INGREDIENTS 78.6%

100.0%

Contains 2 pounds of imidacloprid per gallon

EPA Reg. No. 3125-422

Net Contents: ____ Gallons

STOP - READ THE LABEL BEFORE USE

Keep Out Of Reach of Children

CAUTION

SHAKE WELL BEFORE USING

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.)

ACCEPTED
with COMMENTS
in EPA Letter Dated

APR 04 1995

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for use as insecticide
registered under EPA Reg. No.

3125-422

MILES



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Water-proof gloves
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment, PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering controls statements:

- When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations:

User 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.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STATEMENTS OF PRACTICAL TREATMENT

If swallowed: Call a physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger, or, if available, by administering syrup of ipecac. If syrup of ipecac is available, administer 1 tablespoonful (15 mL) of syrup of ipecac followed by 1 to 2 glasses of water. If vomiting does not occur within 20 minutes,

repeat the dose once. Do not induce vomiting or give anything by mouth to an unconscious person. **If on skin:** Wash thoroughly with soap and water. Get medical attention if irritation occurs. **If in eyes:** Hold eyelids open and flush with plenty of water.

TO PHYSICIAN: No specific antidote is available. Treat the patient symptomatically.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

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

This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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.

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.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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
- Waterproof gloves
- Shoes plus socks

UNDER DIFFERENT ENVIRONMENTAL CONDITIONS BOTH INDOORS AND OUTDOORS UNDER CONDITIONS SIMILAR TO THOSE THAT ARE ORDINARY AND CUSTOMARY WHERE THE PRODUCT IS TO BE USED. INSUFFICIENT CONTROL OF PESTS OR PLANT INJURY MAY RESULT FROM THE OCCURRENCE OF EXTRAORDINARY OR UNUSUAL CONDITIONS, OR FROM FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS MAY CAUSE INJURY TO ANIMALS, MAN, AND DAMAGE TO THE ENVIRONMENT. MILES OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL ENVIRONMENTAL CONDITIONS, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF MILES AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

Do not apply this product through any type of irrigation system unless it is specified in the "Recommended Application" section.

Mixing Instructions: To prepare the spray, add a portion of the required amount of water to the spray tank and with agitation add ADMIRE 2 Flowable. Complete filling tank with balance of water needed. Maintain sufficient agitation during both mixing and application.

ADMIRE 2 Flowable may also be used with other pesticides and/or fertilizer solutions as recommended under specific crop use directions (see NOTE below). When tank mixtures of ADMIRE 2 Flowable and other pesticides are involved, prepare the tank mixture as recommended above. When pesticide mixtures are needed, add wettable powders first, ADMIRE 2 Flowable, or other flowables second, and emulsifiable concentrates last. Ensure good agitation as each component is added. Do not add the second component in the mixture until the tank contains at least 1/2 of desired amount of water. If a fertilizer solution is added, a fertilizer pesticide compatibility agent may be needed. Maintain constant agitation during both mixing and application to ensure uniformity of spray mixture.

NOTE: Test compatibility of the intended tank mixture before adding ADMIRE 2 Flowable to the spray or mix tank. Add proportionate amounts of each ingredient in the appropriate order, to a pint or quart jar, cap, shake for 5 minutes, and let set for 5 minutes. Poor mixing or formation of precipitates that do not readily redisperse indicates an incompatible mixture that should not be used. For further information, contact your local Miles representative.

RESISTANCE: Some insects are known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product should conform to resistance management strategies established for the use area. Consult your agricultural advisor for resistance management strategies and recommended pest management practices for your area.

IMPORTANT: Read these entire DIRECTIONS FOR USE, AND CONDITIONS OF SALE before using ADMIRE 2 Flowable systemic insecticide.

CONDITIONS OF SALE: THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE APPROPRIATE FOR THE CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED

ADMIRE 2 Flowable Systemic Insecticide

RECOMMENDED APPLICATIONS			
CROP	PEST	RATE PER APPLICATION	REMARKS
VEGETABLES (Direct-seed or Transplant) Pepper (Including Bell peppers, Chili peppers, Cooking peppers, Pimentos and Sweet peppers)	Aphids Whiteflies (Including Sweetpotato or Silverleaf whitefly) Colorado potato beetle Flea beetles Thrips	Soil Application 16-32 fl oz per acre (See conversion charts for linear application or individual plant application rates.)	SOIL APPLICATION Apply specified dosage in sufficient carrier volume to insure uniform application and incorporate into the soil using one of the following methods: (1) In a narrow band centered on the plant row in the bedding operation 14 or fewer days prior to planting. For best results band width should be 2" or less and placed 1 - 2" below the seed depth. (2) In-furrow spray at or below seed level or a narrow surface band above the seedline during planting. For surface-banded applications incorporate to a depth of 1 1/2" with sufficient irrigation within 24 hours to insure satisfactory insect control. (3) As a post-seeding drench, transplant drench, or hill drench. Applications should be made with sufficient water to insure incorporation into the root zone. (4) As a sidedress after plants are established. Applications should be placed within 2-4 inches to the side of each row and incorporated 1 or more inches deep. Applications should be made to each row if there are two rows per bed. (5) In drip or trickle irrigation water. The rate applied affects the length of control. Use the high rate where infestations occur later in crop development, or where pest pressure is continuous. Do not apply a soil application within 21 days of harvest. Do not apply to vegetables grown for seed. For pepper do not apply more than 32 fluid ounces of ADMIRE 2 Flowable per acre per year as a soil application. For eggplant, tomato, ground cherry, pepinos or tomatillos, do not apply more than 24 fluid ounces of ADMIRE 2 Flowable per acre per year as a single soil application. (See Note).
Eggplant Tomato Ground cherry Pepinos Tomatillo	Aphids Whiteflies (Including Sweetpotato or Silverleaf whitefly) Colorado potato beetle Flea beetles Thrips	Soil Application 16-24 fl oz per acre (See conversion charts for linear application or individual plant application rates.)	(5) In drip or trickle irrigation water. The rate applied affects the length of control. Use the high rate where infestations occur later in crop development, or where pest pressure is continuous. Do not apply a soil application within 21 days of harvest. Do not apply to vegetables grown for seed. For pepper do not apply more than 32 fluid ounces of ADMIRE 2 Flowable per acre per year as a soil application. For eggplant, tomato, ground cherry, pepinos or tomatillos, do not apply more than 24 fluid ounces of ADMIRE 2 Flowable per acre per year as a single soil application. (See Note).

NOTE: Regardless of the type of application (soil or foliar) or type of formulation, do not apply more than 0.5 lb ai of ADMIRE or PROVADO per acre per year.

ADMIRE 2 Flowable Systemic Insecticide

CONVERSION CHART FOR LINEAR APPLICATION

RATE/ACRE	Rate in Fluid Ounces / 1000 Row Feet Based On Planted Row Spacing Of:				
	20 inches	30 inches	40 inches	60 inches	80 inches
16 fl oz/acre	0.6	0.9	1.3	1.9	2.5
24 fl oz/acre	0.9	1.4	1.9	2.8	3.8
32 fl oz/acre	1.2	1.8	2.5	3.7	5.0

For crops with double rows on a single bed, calculate rate based on single planted row. For example, if there are double rows on 40-inch beds, the fl oz/1000 row ft rate would be based on a 20 inch spacing.

CONVERSION CHART FOR INDIVIDUAL PLANT TREATMENTS

RATE/ACRE	Rate in Fluid Ounces / 1000 Plants Based On Plant Populations (per acre) Of:				
	5,000	10,000	15,000	20,000	25,000
16 fl oz/acre	3.2	1.6	1.1	0.8	0.7
24 fl oz/acre	4.8	2.4	1.6	1.2	1.0
32 fl oz/acre	6.4	3.2	2.1	1.6	1.3

RECOMMENDED APPLICATIONS

CROP	PEST	RATE PER APPLICATION	REMARKS
VEGETABLES (Direct-seed or Transplant) Eggplant Pepper (Includes Bell peppers, Chili peppers, Cooking peppers, Pimentos and Sweet peppers) Tomato Ground cherry Pepinos Tomatillo	Aphids Whiteflies (Including Sweetpotato or Silverleaf whitefly) Colorado potato beetle	Foliar Application 3.0 fl oz per acre	FOLIAR APPLICATION Aphid or Colorado Potato Beetle Control: Apply specified dosage as needed for control. Good coverage of the foliage is necessary for optimal control. A spray adjuvant may be used to improve coverage. For best results, time application before a damaging population becomes established. Silverleaf Whitefly Control: Apply specified rate on a 5-7 day schedule at the first appearance of the whitefly in the crop. Good coverage of the foliage is necessary for optimal control. A spray adjuvant may be used to improve coverage. Continue applications until whiteflies are no longer infesting the crop. ADMIRE 2 Flowable will not knock down heavy aphid or whitefly populations. This product may be tank mixed with other pesticides as recommended for control of other pests or for improved control of whitefly. Foliar applications may be applied up to and including day of harvest. Do not apply to vegetables grown for seed. Allow at least 5 days between foliar applications. Do not apply more than a total of 15 fluid ounces of ADMIRE 2 Flowable per year as foliar sprays (See Note).

NOTE: Regardless of the type of application (soil or foliar) or type of formulation, do not apply more than 0.5 lb ai of ADMIRE or PROVADO per acre per year.

ADMIRE 2 Flowable Systemic Insecticide

RECOMMENDED APPLICATIONS			
CROP	PEST	RATE PER APPLICATION	REMARKS
VEGETABLES (Direct-seed or Transplant) Broccoli Brussels sprouts Cabbage Cauliflower Broccoli, Chinese (<i>gai lan</i>) Broccoli raab (<i>rapi</i>) Cabbage, Chinese (<i>bok choy, napa</i>) Cabbage, Chinese mustard (<i>gai choy</i>) Collards Kale Kohlrabi Mustard greens Rape greens	Aphids Whiteflies (Including Sweetpotato or Silverleaf whitefly)	Soil Application 10 - 24 fl oz per acre (See conversion chart for linear application rates.)	SOIL APPLICATION Apply specified dosage in sufficient carrier volume to insure uniform application and incorporate into the soil using one of the following methods: (1) In a narrow band centered on the plant row in the bedding operation 14 or fewer days prior to planting. For best results band width should be 2" or less and placed 1" to 2" below the seed depth. (2) In-furrow spray at or below seed level or a narrow (2" or less) surface band above the seedline during planting. For surface-banded applications incorporate to a depth of 1 1/2" with sufficient irrigation within 24 hours to insure satisfactory insect control. (3) As a post-seeding drench, transplant drench, or hill drench. Applications should be made with sufficient water to insure incorporation into the root zone. (4) As a sidedress after plants are established. Applications should be placed within 2-4 inches to the side of each row and incorporated 1 or more inches deep. Applications should be made to each row if there are two rows per bed. (5) In drip or trickle irrigation water. The rate applied affects the length of control. Use higher rates where infestations occur later in crop development, or where pest pressure is continuous. Do not apply a soil application within 21 days of harvest. Do not apply to vegetables grown for seed. Do not apply more than 24 fluid ounces of ADMIRE 2 Flowable per acre per year as a single soil application (See Note).
NOTE: Regardless of the type of application (soil or foliar) or type of formulation, do not apply more than 0.5 lb ai of ADMIRE or PROVADO per acre per year.			

ADMIRE 2 Flowable Systemic Insecticide

CONVERSION CHART FOR LINEAR APPLICATION

RATE/ACRE	Rate in Fluid Ounces / 1000 Row Feet Based On Planted Row Spacing Of:		
	DOUBLE ROW 38" - 40" Beds	SINGLE ROW 38" - 40" Bed	SINGLE ROW 30" Bed
10 fl oz/acre	0.4	0.8	0.6
16 fl oz/acre	0.6	1.3	0.9
20 fl oz/acre	0.8	1.5	1.2
24 fl oz/acre	1.0	2.0	1.5

RECOMMENDED APPLICATIONS

CROP	PEST	RATE PER APPLICATION	REMARKS
VEGETABLES (Direct-seed or Transplant) Broccoli Brussels sprouts Cabbage Cauliflower Broccoli, Chinese (<i>gai lan</i>) Broccoli raab (<i>rapini</i>) Cabbage, Chinese (<i>bok choy, napa</i>) Cabbage, Chinese mustard (<i>gai choy</i>) Collards Kale Kohlrabi Mustard greens Rape greens	Aphids Whiteflies (Including Sweetpotato or Silverleaf whitefly)	Foliar Application 3.0 fl oz per acre	FOLIAR APPLICATION Aphid Control: Apply specified dosage as needed for control. Good coverage of the foliage is necessary for optimal control. A spray adjuvant may be used to improve coverage. For best results, time application before a damaging population becomes established. Silverleaf Whitefly Control: Apply specified rate on a 5-7 day schedule at the first appearance of the whitefly in the crop. Good coverage of the foliage is necessary for optimal control. A spray adjuvant may be used to improve coverage. Continue applications until whiteflies are no longer infesting the crop. ADMIRE 2 Flowable will not knock down heavy aphid or whitefly populations. This product may be tank mixed with other pesticides as recommended for control of other pests or for improved control of whitefly. Allow at least 7 days between last application and harvest. Do not apply to vegetables grown for seed. Allow at least 5 days between foliar applications. Do not apply more than a total of 15 fluid ounces of ADMIRE 2 Flowable per year as foliar sprays (See Note).

NOTE: Regardless of the type of application (soil or foliar) or type of formulation, do not apply more than 0.5 lb ai of ADMIRE or PROVADO per acre per year.

ADMIRE 2 Flowable Systemic Insecticide

RECOMMENDED APPLICATIONS			
CROP	PEST	RATE PER APPLICATION	REMARKS
VEGETABLES (Direct-seed or Transplant) Lettuce (Head & Leaf)	Aphids Whiteflies (Including Sweetpotato or Silverleaf whitefly)	Soil Application 10 - 24 fl oz per acre (See conversion chart for linear application rates.)	<p>SOIL APPLICATION Apply specified dosage in sufficient carrier volume to insure uniform application and incorporate into the soil using one of the following methods:</p> <p>(1) In a narrow band centered on the plant row in the bedding operation 14 or fewer days prior to planting. For best results band width should be 2" or less and placed 1" to 2" below the seed depth.</p> <p>(2) In-furrow spray at or below seed level or a narrow (2" or less) surface band above the seedline during planting. For surface-banded applications incorporate to a depth of 1 1/2" with sufficient irrigation within 24 hours to insure satisfactory insect control.</p> <p>(3) As a post-seeding drench, transplant drench, or hill drench. Applications should be made with sufficient water to insure incorporation into the root zone.</p> <p>The rate applied affects the length of control. Use higher rates where infestations occur later in crop development, or where pest pressure is continuous.</p> <p>Do not apply a soil application within 21 days of harvest.</p> <p>Do not apply to vegetables grown for seed.</p> <p>Do not apply more than 24 fluid ounces of ADMIRE 2 Flowable per acre per year as a single soil application (See Note).</p>
<p>Note: Regardless of the type of application (soil or foliar) or type of formulation, do not apply more than 0.5 lb ai of ADMIRE or PROVADO per acre per year.</p>			

CONVERSION CHART FOR LINEAR APPLICATION			
RATE/ACRE	Rate in Fluid Ounces / 1000 Row Feet Based On Planted Row Spacing Of:		
	DOUBLE ROW 38" - 40" Beds	SINGLE ROW 38" - 40" Bed	SINGLE ROW 30" Bed
10 fl oz/acre	0.4	0.8	0.6
16 fl oz/acre	0.6	1.3	0.9
20 fl oz/acre	0.8	1.5	1.2
24 fl oz/acre	1.0	2.0	1.5

ADMIRE 2 Flowable Systemic Insecticide

RECOMMENDED APPLICATIONS			
CROP	PEST	RATE PER APPLICATION	REMARKS
VEGETABLES (Direct-seed or Transplant) Lettuce (Head and Leaf)	Aphids Whiteflies (Including Sweetpotato or Silverleaf whitefly)	Foliar Application 3.0 fl oz per acre	FOLIAR APPLICATION Aphid Control: Apply specified dosage as needed for control. Good coverage of the foliage is necessary for optimal control. A spray adjuvant may be used to improve coverage. For best results, time application before a damaging population becomes established. Silverleaf Whitefly Control: Apply specified rate on a 5-7 day schedule at the first appearance of the whitefly in the crop. Good coverage of the foliage is necessary for optimal control. A spray adjuvant may be used to improve coverage. Continue applications until whiteflies are no longer infesting the crop. ADMIRE 2 Flowable will not knock down heavy aphid or whitefly populations. This product may be tank mixed with other pesticides as recommended for control of other pests or for improved control of whitefly. Allow at least 7 days between last application and harvest. Do not apply to vegetables grown for seed. Allow at least 5 days between foliar applications. Do not apply more than a total of 15 fluid ounces of ADMIRE 2 Flowable per year as foliar sprays (See Note).
NOTE: Regardless of the type of application (soil or foliar) or type of formulation, do not apply more than 0.5 lb ai of ADMIRE or PROVADO per acre per year.			

RECOMMENDED APPLICATIONS			
CROP	PEST	RATE PER APPLICATION	REMARKS
Grapes	Leafhoppers Mealybugs	1.5 to 3.0 fl oz per acre	Apply specified dosage per acre in sufficient carrier to provide thorough coverage of the foliage. Apply higher rate for heavy infestations of mealybugs. Do not apply more than a total of 6.0 fluid ounces of ADMIRE 2F per year. Allow at least 14 days between applications. Applications may be applied up to and including day of harvest.

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.

Spray Drift Management: The interaction of many equipment and weather related factors determines the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.

Buffer Zone Requirements: For soil or foliar applications, do not apply by ground 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.

Recommendations For Aerial Applications: The spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used, and must not exceed 75% of the wing span or rotor diameter.

Importance of Droplet Size: An important factor influencing drift is droplet size. Small droplets (<150 - 200 microns) drift to a greater extent than large droplets. Within typical equipment specifications, applications should be made to deliver the largest droplet spectrum that provides sufficient control and coverage. 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 possible height consistent with good pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.

Wind Speed Restrictions: Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size, canopy and equipment specifications determine drift potential at any given wind speed. Do not apply when winds are greater than 15 mph and avoid gusty and windless conditions. Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

Restrictions During Temperature Inversions: Do not make aerial or ground applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however if fog is not present, inversions can also be identified by the movement of smoke from a ground source. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical mixing.

Airblast (Air Assist) Specific Recommendations for Tree Crops and Vineyards: Airblast sprayers carry droplets into the canopy of trees/vines via a radially, or laterally directed air stream. The following specific drift management practices should be followed:

- Adjust deflectors and aiming devices so that spray is only directed into the canopy;
- Block off upward pointed nozzles when there is no overhanging canopy;
- Use only enough air volume to penetrate the canopy and provide good coverage;
- Do not allow the spray to go beyond the edge of the cultivated area (i.e., turn off sprayer when turning at end rows);
- Only spray inward, toward the orchard or vineyard, for applications to the outside rows.

Runoff Management: Do not cultivate within 10 feet of the aquatic areas to allow growth of a vegetative filter strip.

When used on erodible soils, best management practices for minimizing runoff should be employed. Consult your local Soil Conservation Service for recommendations in your use area.

ENDANGERED SPECIES

NOTICE: Under the Endangered Species Act, it is a Federal Offense to use any pesticide in a manner that results in the death of a member of an endangered species.

STATE	COUNTY	CROP	RESTRICTIONS ¹	SPECIES OF CONCERN ²
Alabama	Madison	Apples	1	ACS
		Cotton	1	ACS
		Potatoes	1	ACS
California	Butte	Apples	3, 4	CoFS, VPTS
		Cotton	3, 4	CoFS, VPTS
		Potatoes	3, 4	CoFS, VPTS
	Colusa	Tomatoes	5	VELB
	Contra Costa	Apples	4	LFS, VPFS
		Cotton	4	LFS, VPFS
		Potatoes	4	LFS, VPFS
	El Dorado	Apples	5	VELB
		Cotton	5	VELB
		Potatoes	5	VELB
	Fresno	Apples	5	VELB
		Cotton	5	VELB
		Potatoes	5	VELB
		Grapes	4	VPFS
	Glenn	Apples	5	VELB
	Madera	Apples	5	VELB
		Cotton	5	VELB
		Potatoes	5	VELB
		Grapes	4	VPFS
	Marin	Cabbage	3	CaFS
	Merced	Apples	3, 4	CoFS, VPFS
		Cotton	3, 4	CoFS, VPFS
		Potatoes	3, 4	CoFS, VPFS
		Grapes	4	VPFS
	Monterey	Apples	4	VPFS
		Cotton	4	VPFS
		Potatoes	4	VPFS
	Napa	Apples	3	CaFS
	Placer	Apples	4, 5	VELB, VPFS, VPTS
		Cotton	4, 5	VELB, VPFS, VPTS
		Potatoes	4, 5	VELB, VPFS, VPTS
	Riverside	Apples	4	VPFS
		Cotton	4	VPFS
		Potatoes	4	VPFS
	Sacramento	Apples	4, 5	VELB, VPFS, VPTS
		Cotton	4, 5	VELB, VPFS, VPTS
		Potatoes	4, 5	VELB, VPFS, VPTS
		Peppers	4, 5	VELB, VPFS, VPTS
		Tomatoes	4, 5	VELB, VPFS, VPTS
	San Diego	Cabbage	3	RFS
	San Joaquin	Peppers	4, 5	VELB, VPFS, VPTS
		Apples	4, 5	VELB, VPFS, VPTS
		Cotton	4, 5	VELB, VPFS, VPTS
		Potatoes	4, 5	VELB, VPFS, VPTS

STATE	COUNTY	CROP	RESTRICTIONS ¹	SPECIES OF CONCERN ²
California, cont.	San Luis Obispo	Apples Cotton Potatoes	4 4 4	VPTS VPTS VPTS
	Shasta	Apples Cotton Potatoes	4 4 4	VPTS VPTS VPTS
	Sonoma	Apples	3	CaFS
	Stanislaus	Apples Cotton Potatoes	4, 5 4, 5 4, 5	VPTS VPTS VPTS
	Sutter	Apples Cotton Potatoes Tomatoes	4, 5 4, 5 4, 5 4, 5	VELB, VPFS, VPTS VELB, VPFS, VPTS VELB, VPFS, VPTS VELB, VPFS, VPTS
	Tehama	Apples Cotton Potatoes	4, 5 4, 5 4, 5	VPTS, VELB VPTS, VELB VPTS, VELB
	Yolo	Peppers Apples Cotton Potatoes	4, 5 4, 5 4, 5 4, 5	VELB, VPTS VELB, VPTS VELB, VPTS VELB, VPTS
	Yuba	Apples Cotton Potatoes	4 4 4	VPFS, VPTS VPFS, VPTS VPFS, VPTS
Florida	Dade	Vegetables	2	SSB
	Alachua	All	6	SCCS
Illinois	Lake	Apples Potatoes Vegetables	2 2 2	KBB KBB KBB
Indiana	Lake	Vegetables	2	KBB
	Porter	Vegetables	2	KBB
Michigan	Allegan	Apples Potatoes Vegetables	2 2 2	KBB KBB KBB
	Lake	Apples Potatoes	2 2	KBB KBB
	Monroe	Apples Potatoes Vegetables	2 2 2	KBB KBB KBB
	Montcalm	Vegetables	2	KBB
	Muskegon	Apples Potatoes	2 2	KBB KBB
	Newaygo	Apples Potatoes Vegetables	2 2 2	KBB KBB KBB

STATE	COUNTY	CROP	RESTRICTIONS ¹	SPECIES OF CONCERN ²
Michigan, cont.	Oceana	Apples	2	KBB
		Potatoes	2	KBB
		Vegetables	2	KBB
New Hampshire	Merrimack	Apples	2	KBB
		Potatoes	2	KBB
New York	Albany	Vegetables	2	KBB
	Saratoga	Apples	2	KBB
		Potatoes	2	KBB
		Vegetables	2	KBB
	Schenectady	Apples	2	KBB
		Potatoes	2	KBB
		Vegetables	2	KBB
Virginia	Lee	Apples	1	LCCI
		Cotton	1	LCCI
		Potatoes	1	LCCI
Wisconsin	Clark	Apples	2	KBB
		Potatoes	2	KBB
	Green Lake	Apples	2	KBB
		Potatoes	2	KBB
	Jackson	Apples	2	KBB
		Potatoes	2	KBB
	Juneau	Apples	2	KBB
		Potatoes	2	KBB
	Sauk	Apples	2	KBB
		Potatoes	2	KBB
	Waupaca	Apples	2	KBB
		Potatoes	2	KBB
		Vegetables	2	KBB
	Waushara	Apples	2	KBB
		Potatoes	2	KBB
		Vegetables	2	KBB

¹Restriction Codes:

- 1 = All uses prohibited in this county
- 2 = Use on potatoes or vegetables is restricted to soil only applications.
Foliar applications to apples should be avoided during the flowering period (when butterflies may be exposed).
- 3 = 200 ft buffer zone between application sites and natural aquatic habitats
- 4 = 200 ft buffer zone between application sites and vernal pools
(Vernal pools are natural wetlands located in grasslands, pastures and other non-cultivated habitats that fill with water as the result of winter/spring rains, but dry up during the summer.)
- 5 = 200 ft buffer zone between application sites and natural rivers and streams
- 6 = Uses are restricted to agricultural croplands only

²Species Codes:

- ACS = Alabama Cave Shrimp
- CaFS = California Freshwater Shrimp
- CoFS = Conservancy Fairy Shrimp
- KBB = Karner Blue Butterfly
- LCCI = Lee County Cave Isopod
- LFS = Longhorn Fairy Shrimp
- RFS = Riverside Fairy Shrimp
- SCCS = Squirrel Chimney Cave Shrimp
- SSB = Schaus Swallowtail Butterfly
- VELB = Valley Elderberry Longhorn Beetle
- VPFS = Vernal Pool Fairy Shrimp
- VPTS = Vernal Pool Tadpole Shrimp

ROTATIONAL CROPS

Treated areas may be replanted with any crop specified on an imidacloprid label, or any crop for which a tolerance exists for the active ingredient, as soon as practical following the last application.

For crops not listed on an imidacloprid label, or for crops for which no tolerances for the active ingredient have been established, a 12-month plant-back interval should be observed.

ROTATIONAL PLANT-BACK INTERVALS¹

<u>Immediate Plant-Back</u>			<u>12-Month Plant-Back</u>
Cotton	Broccoli	Pepinos	All Other Crops
Potatoes	Brussels Sprouts	Tomatillo	
Sorghum	Cabbage	Broccoli, Chinese	
Eggplant	Cauliflower	Broccoli raab	
Pepper	Lettuce	Cabbage, Chinese	
Tomato	Ground cherry	Collards	
Kale	Kohlrabi	Mustard greens	
Rape greens			

¹Cover crops for soil building or erosion control may be planted any time, but do not graze or harvest for food or feed.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking, invert to prevent leakage. If container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides above. In spill or leak incidents, keep unauthorized people away. You may contact the Miles Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Miles Kansas City Emergency Response telephone number is 816-242-2582, or contact Chemtrec at 800-424-9300.

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