

279-3126

02-18-2004

1/10

FEB 18 2004

Ms. Nancy J. Hilton  
FMC Corporation  
1735 Market Street  
Philadelphia, PA 19103

Dear Ms. Hilton:

Subject: Amendment - correct application rate on wheat  
Mustang Insecticide  
EPA Registration No. 279-3126  
Your submission dated January 29, 2004

The application referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable, and a copy of a stamped label is enclosed for your records.

Sincerely,

George T. LaRocca  
Product Manager 13  
Insecticide Branch  
Registration Division (7505C)

Enclosure

~~279-3126~~

2/10

## 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 those uses covered by the certified applicator's certification.



# MUSTANG<sup>®</sup>

## Insecticide

EPA Reg. No. 279-3126

EPA Est. 279-FL-1

### Active Ingredient:

* S-Cyano (3-phenoxyphenyl)methyl (±) cis/trans 3-(2,2-dichloroethenyl)- 2,2 dimethylcyclopropane carboxylate**	By Wt. 17.1%
Inert ingredients	82.9%

100.0%

\* Contains 1.5 pounds active ingredient per gallon.  
\*\* Cis/trans ratio: Max. 55% (±) cis and min. 45% (±) trans  
U.S. Patent No. Pending



### 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.)

### FIRST AID

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

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

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

**If Swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

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

For Emergency Assistance Call (800) 331-3148.

See other panels for additional precautionary information.

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans (and Domestic Animals)

##### Warning

May be fatal if swallowed. Harmful if inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid breathing vapors or spray mist. Avoid contact with skin, eyes or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. The active ingredient may cause sensitization reaction in some individuals.

##### 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 G 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 Lamine 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 Lamine 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 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. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash waters.

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.

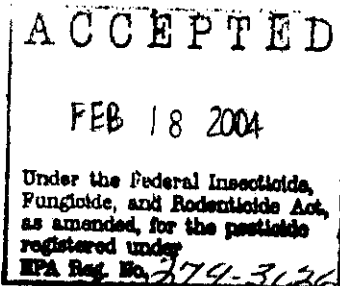
### Physical/Chemical Hazards

Do not use or store near heat or open flame.



FMC Corporation  
Agricultural Products Group  
Philadelphia PA 19103

Mustang\_3\_1-28-04



## 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.

### SHAKE WELL BEFORE USING

#### 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 Viton, and Shoes plus socks.

## STORAGE AND DISPOSAL

### Pesticide Storage

Store in a cool, dry, well-ventilated place. Do not store below -6.6 C (20 F). If solids are observed warm to above 4.4 C (40 F) and roll or shake containers to redissolve. Do not use near heat, open flame or hot surfaces. Store in original containers only. 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. Keep out of reach of children and animals.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call FMC: (800) 331-3148.

To confine spill: Dike surrounding area or absorb with sand, cat litter or commercial clay. 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 Containers:** 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.

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

**Returnable/Refillable Sealed Containers:** Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

## 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 any irrigation system (including greenhouse systems) used for pesticide application to a public water system.

Crop injury, lack of effectiveness, or illegal residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

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

The pesticide injection pipeline must also 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

Mustang® insecticide should be applied continuously for the duration of the water application. Mustang® should be diluted in sufficient volume to insure accurate application over the area to be treated. Use the appropriate amount of water to carry the product to the target pest. Agitation is not required when a suitable diluent is used.

## GENERAL INSTRUCTIONS

Use low rate under light to moderate infestation. Higher rates should be used under heavy insect pressure. The rate of application is variable according to insect pressure, timing of spray and field scouting.

Under hot and dry conditions, increase the spray volume and add appropriate spray adjuvant, but only to those crops which have previously demonstrated a tolerance to the adjuvant(s) under these conditions.

### Preventive Use

For cutworm, armyworm, or stalk borer control, Mustang insecticide may be applied before, during, or after planting. For soil-incorporated applications, use higher rates for improved control.

### Rotational Crops

With the exception of the crops listed below, rotational crops should not be planted within 30 days of last application.

### Tank-Mixture

Mustang Insecticide may be applied in tank mixtures with other products approved for use on Alfalfa, Brassica Vegetables, Bulb Vegetables, Corn, Cotton, Fruiting Vegetables, Leafy Vegetables, Legume Vegetables, Pecans, Rice, Sorghum, Soybeans, Sugarbeets, and Wheat. Observe all restrictions and precautions which appear on the labels of these products. Test for compatibility of products before mixing.

### Spray Drift Precautions

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>, Fury<sup>®</sup>, Karate<sup>®</sup>, Mustang<sup>®</sup>, and Scout<sup>®</sup> X-TRA.

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.

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' 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.

### Maximum Usage When Applying Both Zeta-Cypermethrin and Cypermethrin Products to the Same Crop Within the Same Season.

Do not apply more than the maximum seasonal total for either product when used alone, and do not apply more than the combined maximum seasonal total for both products as outlined in the table below.

Crop	Maximum Seasonal Total for Either Product Used Alone (pounds active ingredient/acre)		Maximum Seasonal Total When Applying Both Products to the Same Crop (pounds active ingredient/acre)
	Zeta-cypermethrin*	Cypermethrin**	Zeta-cypermethrin* plus Cypermethrin**
Cotton	0.3	0.6	0.6
Head and Stem Brassica	0.3	0.6	0.6
Leafy Brassica Greens	0.3	0.4	0.4
Head Lettuce	0.3	0.6	0.6
Bulb Vegetables	0.25	0.5	0.5
Pecans	0.3	0.6	0.6

\* Fury or Mustang (1.5 EC or 1.5 EW); Mustang MAX (0.8 EC)

\*\* Any cypermethrin product approved for crop use, including Ammo<sup>™</sup>

### Maximum Seasonal Usage and PHI (Pre-Harvest Interval) for Mustang Labeled Crops

Crop	Maximum Seasonal Total/Acre for Mustang		PHI (days)
	Lbs AI	Fl oz	
Alfalfa	0.05/cutting	4.3	3 (cutting or grazing) 7 (harvesting seed)
	0.15/season	12.9	
Brassica Vegetables	0.3	25.8	1
Bulb Vegetables	0.25	21.5	7
Corn, sweet	0.3	25.8	3
Corn, field, seed, pop	0.2	17.2	30 (grain & stover) 60 (forage)
Cotton	0.3	25.8	14
Fruiting Vegetables	0.3	25.8	1
Leafy Vegetables	0.3	25.8	1
Legume Vegetables	0.3	25.8	1 (succulent shelled or edible-podded) 21 (dried shelled)
Pecans	0.3	25.8	21
Rice	0.2	17.2	14
Sorghum	0.25	21.5	14 (grain & fodder (stover)) 45 (forage (silage))
Soybeans	0.3	25.8	21
Sugar Beet	0.15	12.9	50
Wheat	0.25	21.5	14

The REI (Restricted Entry Interval) is 12 hours for all labeled crops.

Refer to the crop specific use directions for detailed information on application timing and any use restrictions

**Alfalfa; Alfalfa grown for seed** (Includes lucerne, sainfoin, holy clover, esparcet, birdsfoot trefoil and varieties and/or hybrids of these)

Insects Controlled	Rate of Application	Method of Application
Alfalfa Caterpillar Alfalfa Looper Alfalfa Weevil Cutworms Egyptian Alfalfa Weevil (larvae & adult) Flea Beetles Green Cloverworm Hornworms Meadow Spittlebug Potato Leafhopper Velvetbean Caterpillar Webworms Blue Alfalfa Aphid <sup>1</sup> Green Peach Aphid <sup>1</sup> Pea Aphid <sup>1</sup> Spotted Alfalfa Aphid <sup>1</sup> Three Cornered Alfalfa Hopper	2.4 to 4.3 ounces (0.028 to 0.05 pound active) per acre	Apply as insects appear in sufficient volume of water to ensure thorough coverage of foliage.  Use higher recommended dosage for increased pest pressure or for increased residual pest control.  Apply in a minimum of 2 gallons of finished spray per acre by aerial equipment or 10 gallons per acre by ground equipment. ULV oil spray application is prohibited. Higher volumes of finished spray may improve insect control under high temperatures, when foliage is dense and/or when insect pressure is high.
Armyworms Grasshoppers Plant Bugs (including Lygus spp. & Stink Bugs)	3.0 to 4.3 ounces (0.035 to 0.05 pound active) per acre	Follow appropriate spray drift precautions on this label.

Do not make applications less than 7 days apart.  
A maximum of 0.05 pounds active ingredient/acre may be applied per cutting and a maximum of 0.15 pounds active ingredient per acre per season.  
Applications may be made up to 3 days of cutting or grazing or up to 7 days of harvesting seed.  
Do not apply to mixed stands with intentionally-grown forage grasses and/or legumes.  
<sup>1</sup>Aphid control may be variable depending on species present and host-plant relationships.

**Head and Stem Brassica Vegetables (1 day phi) including: Broccoli; Chinese Broccoli (gai lan, white flowering broccoli); Brussels Sprouts; Cauliflower; Cavalo broccoli; Kohlrabi; Cabbage; Chinese Cabbage (napa); Leafy Brassica Greens including: Broccoli Raab (rapini); Chinese cabbage (bok choy); Chinese Mustard Cabbage (gai choy); Collards; Kale; Mizuna; Mustard Greens; Mustard Spinach; Rape Greens**

Insects Controlled	Rate of Application	Method of Application
Corn Earworm Cucumber Beetles Cutworm Diamondback Moth <sup>1</sup> Flea Beetles Imported Cabbageworm Leafhoppers Saltmarsh Caterpillar Southern Cabbageworm Tobacco Budworm <sup>1</sup>	2.4 to 4.3 ounces (0.028 to 0.05 pound active) per acre	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.  Lower rates of Mustang should be used under light to moderate insect pressure. Higher rates should be used to control heavy to extremely heavy insect populations.
Alfalfa Looper Armyworms Cabbage Looper Cabbage Webworm Crickets Grasshoppers Ground Beetles Leafminers (adults) Lygus Bugs Onion Thrips Stinkbugs Wireworm (adults) Aphids <sup>2</sup> Whiteflies <sup>3</sup>	3.4 to 4.3 ounces (0.04 to 0.05 pound active) per acre	In areas where arid climatic conditions persist, such as California and Arizona, higher than minimum recommended rates may be required.  Follow appropriate spray drift precautions on this label.

Do not make applications less than 7 days apart.  
A maximum of 0.3 pounds active ingredient may be applied per acre per season.  
<sup>1</sup> See resistance statement under "Directions for Use" section.  
<sup>2</sup>Aphid control may be variable depending on species present and host-plant relationships.  
<sup>3</sup> Aids in control

**Bulb Vegetables (Allium spp.) (7 day phi) including: Garlic; Garlic, Great-Headed (elephant); Green Eschalots; Japanese Bunching Onions; Leeks; Onion, Dry Bulb and Green; Onion, Welch; Shallots, Dry Bulb and Green; Spring Onion or Scallions**

Insects Controlled	Rate of Application	Method of Application
Amyworms Cutworms Leafminers (adults) Onion Maggot Adults Stink Bugs Aphids <sup>1</sup>	2.4 to 4.3 ounces (0.028 to 0.05 pound active) per acre	Apply in a minimum of 20 gallons per acre with ground equipment or in a minimum of 3 gallons per acre by aircraft. Begin applications when pests appear and repeat as necessary to maintain control.
Onion Thrips	3.2 to 4.3 ounces (0.0375 to 0.05 pound active) per acre	To control Onion Thrips:  Use higher rates as population increases and avoid rescue situations. Use of a crop oil concentrate at 16 fluid ounces per acre is recommended.  Follow appropriate spray drift precautions on this label.

Do not make applications less than 7 days apart.  
Do not apply more than 0.25 pound active ingredient per acre per season.  
Do not graze livestock in treated areas or cut treated crops for feed.  
<sup>1</sup>Aphid control may be variable depending on species present and host-plant relationships.

**Corn, Sweet (3 day phi)**

Insects Controlled	Rate of Application	Method of Application
Chinch Bug Corn Rootworm (Adult) Corn Silkyfly Cutworms Flea Beetle Leafhoppers Japanese Beetle (Adult) Sap Beetle (adults) Tarnished Plant Bug	2.4 to 4.3 ounces (0.028 to 0.05 pound active) per acre	Apply with ground or air equipment using sufficient water and application methods to insure thorough coverage of foliage. Apply in water using a minimum of 20 gallons of finished spray per acre with ground equipment and a minimum of 2 gallons per acre by air.
Armyworms Corn Borers Corn Earworm Grasshoppers Aphids <sup>1</sup>	3.0 to 4.3 ounces (0.035 to 0.05 pound active) per acre	Follow appropriate spray drift precautions on this label.

Apply at minimum 3 to 5 day intervals or as needed for control.  
A maximum of 0.3 pounds active ingredient per acre per season may be applied.  
Do not apply within 3 days of harvest of ears or forage or livestock grazing.  
<sup>1</sup>Aphid control may be variable depending on species present and host-plant relationships.

**Corn (Field), Field Corn Grown for Seed, Popcorn (At Plant Use)**

Insects Controlled	Rate of Application	Method of Application
Cutworms	0.16 fluid ounces per 1,000 linear feet of row (0.002 pound active) per 1,000 linear feet of row	Apply as an in-furrow, band or T-band treatment using a minimum 4" band. Use table below to determine the Mustang needs for each acre.

Row Spacings (inches)	40	30	20
Mustang (pounds ai per acre)	0.024	0.036	0.048
Mustang (formulated ounces per acre)	2.05	3.08	4.10

Do not apply more than 0.20 pound active ingredient per acre per season including at-plant plus foliar applications of Mustang.  
Do not apply within 30 days of harvest for grain and stover and 60 days for forage.

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

Insects Controlled	Rate of Application	Method of Application
Cutworms	1.4 to 3.0 ounces (0.016 to 0.035 pound active) per acre	Make applications when insect populations reach economic thresholds. Refer to local Cooperative Extension Pest Management Guidelines and/or scouting results.
Corn Earworm <sup>1</sup> Green Cloverworm Meadow Spittlebug Western Bean Cutworm <sup>1</sup>	1.9 to 4.3 ounces (0.022 to 0.05 pound active) per acre	Apply by air or by ground equipment using sufficient water to obtain full coverage of foliage (minimum of 2 gallons per acre by air and 10 gallons per acre by ground).  For chinch bug control, scout corn fields and make applications when bugs migrate from small grains or wild grasses to small corn. Direct spray to the base of plant. Repeat applications at 3 to 5 day intervals if needed. Mustang may only suppress heavy infestations and/or subsequent migrations.
Bean Leaf Beetle Cereal Leaf Beetle Corn Borer, European Corn Borer, Southwestern Corn Rootworm Beetle Flea Beetle Grasshoppers Hop Vine Borer Hornworms Japanese Beetle (adult) Sap Beetle (adult) Southern Corn Leaf Beetle Stalk Borer Stink Bug Spp. Tobacco Budworm <sup>2</sup> Webworms Aphids <sup>3</sup>	2.9 to 4.3 ounces (0.034 to 0.05 pound active) per acre	Follow appropriate spray drift precautions on this label.
Armyworms (including Fall Armyworms) Chinch Bug	3.4 to 4.3 ounces (0.04 to 0.05 pound active) per acre	

Do not apply more than 0.20 pound active ingredient per acre per season including At-Planting plus foliar applications of Mustang Insecticide.

Do not apply within 30 days of harvest for grain and stover and 60 days for forage.

<sup>1</sup> For control before the larva bores into the plant stalk or ear.

<sup>2</sup> See resistance statement under "Directions for Use" section.

<sup>3</sup> Control may be variable depending on species present and host-plant relationships.

**Cotton (14 day phi)**

Insects Controlled	Rate of Application	Method of Application
<i>Preemergent Use:</i> Cutworms	1.4 to 2.0 ounces (0.016 to 0.024 pound active) per acre	Use Mustang in the time period from 14 days prior to planting up to emergence of the crop. Apply as a broadcast spray by ground or air, banded (including T-band) or in-furrow spray using sufficient spray volume to achieve adequate coverage. Reduced volumes of water may be used with specialized equipment. Use the higher rates of Mustang when incorporating into the soil.
Cutworms Tobacco Thrips Soybean (banded) Thrips	1.4 to 2.0 ounces (0.016 to 0.024 pound active) per acre	Mustang may be applied in water or refined vegetable oil. When water is used, apply a minimum of one gallon of finished spray per acre by air or five gallons of finished spray with ground equipment. When applying in water by air, one quart of emulsified oil may be substituted for one quart of water in the finished spray. When using oil, use a minimum of one quart per acre in the finished spray.  Control of lepidopteran eggs may be achieved with proper timing of applications.
Armyworm, Fall Armyworm, Yellow Striped Boll Weevil Cabbage Looper Corn Borer, European Cotton Bollworm Cotton Fleahopper Cotton Leaf Perforator Pink Bollworm Saltmarsh Caterpillar Stink Bugs Tarnished Plant Bug Other Plant Bugs Tobacco Budworm <sup>1</sup>	2.8 to 3.8 ounces (0.033 to 0.045 pound active) per acre	For boll weevil control, apply Mustang at a 3 to 4 day interval until pest numbers are reduced to acceptable levels.  Follow appropriate spray drift precautions on this label.  For control of grasshoppers, applications should be made based on careful field scouting.
Armyworm, Beet <sup>2</sup> Cotton Aphid <sup>3</sup> Lygus Bugs Whiteflies <sup>4</sup>	3.0 to 4.3 ounces (0.035 to 0.05 pound active) per acre	Treatment decisions should be made based on evidence of feeding damage and presence of grasshoppers in cotton. Loss of cotyledon leaves in seedling cotton should be considered more important than leaf loss in older cotton. Applications should be made on a broadcast basis since grasshopper are highly mobile.
Grasshoppers	3.2 to 4.3 ounces (0.0375 to 0.05 pound active) per acre	Adjust rates based on populations of grasshopper found in fields. Applications should be made on a three to five day schedule until grasshopper populations are under control or until foliage loss subsides.  Increase application rates as grasshopper size and population density increases.

A maximum of 0.3 active pound ingredient may be applied per acre per season.

Do not graze or feed cotton for forage.

<sup>1</sup> See resistance statement under "Directions for Use" section.

<sup>2</sup> For control of beet armyworms only in the high plains of Texas, Arizona, and California.

<sup>3</sup> Aphid control may be variable depending on species present and host-plant relationships.

<sup>4</sup> Aids in control.

Cutworm spp. Flea Beetle Garden Webworm Green Stink Bug Hornworms Leafminers (adults) Leafhopper spp. Meadow Spittlebug Pepper Maggot (adults) Pepper Weevil Plant Bug spp. Tobacco Budworm <sup>2</sup> Tomato Fruitworm Tomato Pinworm		(minimum of 10 gallons by ground and 2 gallons by air).
		Follow appropriate spray drift precautions on this label.

Aphid spp. <sup>2, 3</sup> Armyworm, Beet <sup>2</sup> Armyworm, Fall Cabbage Looper Grasshoppers Lygus Bugs Brown Stink Bug Tomato Psyllid Thrips spp. <sup>1, 2</sup> Whitefly spp. <sup>1,2</sup>	3.4 to 4.3 ounces (0.04 to 0.05 pound active) per acre	
---	--	--

Do not make applications less than 7 days apart.  
Do not apply more than 0.3 pounds active ingredient per acre per season.  
<sup>1</sup> Aids in control  
<sup>2</sup> See resistance statement under "Directions for Use" section.  
<sup>3</sup> Aphid control may be variable depending on species present and host-plant relationships.

**Leafy Vegetables (except Brassica) (1 day phi):** Amaranth (leafy amaranth, Chinese spinach, tampala); Arugula (Roquette); Cardoon; Celery; Celery, Chinese; Celtuce; Chervil; Chrysanthemum, edible-leaved and garland; Corn salad; Cress, garden; Cress, upland (yellow rocket, winter cress); Dandelion; Dock (sorrel); Endive (escarole); Fennel, Florence (finocchio); Lettuce, head and leaf; Orach; Parsley; Purslane, garden; Purslane, winter; Radicchio (red chicory); Rhubarb; Spinach (including New Zealand and vine, Malabar spinach, Indian spinach); Swiss chard

Insects Controlled	Rate of Application	Method of Application
Corn Earworm Cucumber Beetles Cutworms Diamondback Moth Flea Beetles Imported Cabbageworm Leafhoppers Saltmarsh Caterpillar Tobacco Budworm Aphid spp. <sup>2,3</sup> Whitefly spp. <sup>1,2</sup>	2.4 to 4.3 ounces (0.028 to 0.05 pound active) per acre	Apply in water as necessary for insect control using a minimum of 10 gallons of finished spray per acre with ground equipment and 5 gallons per acre by air.  Lower rates of Mustang should be used under light to moderate insect pressure. Higher rates should be used to control heavy to extremely heavy insect populations.
Armyworms Ground Beetles Crickets Loopers Lygus Bugs Onion Thrips Stink Bugs Wireworm (adults)	3.4 to 4.3 ounces (0.04 to 0.05 pound active) per acre	In areas where arid climatic conditions persist, such as California and Arizona, higher than minimum recommended rates may be required.  Follow appropriate spray drift precautions on this label.

Do not make applications less than 7 days apart.  
A maximum of 0.3 pound active ingredient may be applied per acre per season.  
<sup>1</sup> Aids in control  
<sup>2</sup> See resistance statement under "Directions For Use" section  
<sup>3</sup> Aphid control may be variable depending on species present and host-plant relationships.

Euphi; White Sweet Euphi; Field Bean; Kidney Bean; Navy Bean; Pinto Bean; Tepary Bean; Adzuki Bean; Catjang; Cowpea; Crowder Pea; Moth Bean; Mung Bean; Rice Bean; Urd Bean; Chickpea (Garbanzo Bean); Guar; Lablab bean.

Insects Controlled	Rate of Application	Method of Application
Cutworm spp. Painted Lady (Thistle) Caterpillar Saltmarsh Caterpillar Silverspotted Skipper	1.4 to 4.3 ounces (0.016 to 0.05 pound active) per acre	Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
Alfalfa Caterpillar Armyworm, Southern Armyworm, True Armyworm, Yellow-Striped Bean Leaf Beetle Blister Beetle spp. Colorado Potato Beetle Corn Borer, European Corn Borer, Southwestern Corn Earworm Corn Rootworm Beetle (adult) Cowpea Curculio Cucumber Beetle Flea Beetle Green Cloverworm Ground Beetles Imported Cabbageworm Japanese Beetle Leaf Skeletonizer spp. Leafhopper spp. Leafminers (adults) Mexican Bean Beetle Pea Weevil Pea Leaf Weevil Plant Bug spp. Potato Leafhopper Seedcorn Beetle Seedcorn Maggot (adult) Spittlebug Three-Cornered Alfalfa Hopper Tobacco Budworm <sup>2</sup> Velvetbean Caterpillar Webworm spp. Woolly Bear Caterpillar	3.0 to 4.3 ounces (0.035 to 0.05 pound active) per acre	Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2 gallons by air).  Follow appropriate spray drift precautions on this label.
Aphid spp. <sup>2,3</sup> Armyworm, Beet <sup>2</sup> Armyworm, Fall Grasshoppers Lesser Cornstalk Borer <sup>1</sup> Looper spp. <sup>2</sup> Stink Bug spp. Thrips spp. <sup>1,2</sup> Whitefly spp. <sup>1,2</sup>	3.4 to 4.3 ounces (0.04 to 0.05 pound active) per acre	

Do not make applications less than 5 days apart.  
Do not apply more than 0.3 pound active ingredient per acre per season.  
<sup>1</sup> Aids in control  
<sup>2</sup> See resistance statement under "Directions For Use" section  
<sup>3</sup> Aphid control may be variable depending on species present and host-plant relationships.

6

8/10

**Pecans (21 day phi)**

Insects Controlled	Rate of Application	Method of Application
Black Pecan Aphid Hickory Shuckworm Pecan Nut Casebearer Pecan Weevil Yellow Pecan Aphid	2.8 to 4.3 ounces (0.033 to 0.05 pound active) per acre	Applications at the lower rate should be made when pest populations are low. Rates should be increased as the pest pressure increases.  Apply by ground equipment to the point of drip. Use 100 gallons of dilute spray per acre for smaller trees. For larger trees which require higher gallonage to achieve adequate coverage, apply in 200 to 300 gallons of water. In order to calculate the correct number of gallons of water needed to spray one acre of your trees to the point of drip, you may need to conduct a test. If you do not know how to conduct such a test with your equipment, you should request assistance from your equipment dealer.
Up to 0.3 pound active ingredient per acre season may be applied prior to shuck split. Do not graze livestock in treated orchards or cut treated cover crops for feed.		

**Rice (14 day phi)**

Insects Controlled	Rate of Application	Method of Application
Armyworm, Fall Armyworm, True Armyworm, Yellow Striped Grasshoppers Green Bug Leafhopper Spp. Rice Water Weevil (adult) Oat Birdcherry Aphid <sup>1</sup>	3.4 to 4.3 ounces (0.04 to 0.05 pound active) per acre	Apply as needed based on pest thresholds determined by scouting practices. Refer to Extension Scouting guidelines for scouting techniques, pest thresholds and treatment timing and treatment intervals. Determine the need for repeat applications, usually at intervals of 7 days, by scouting.
Chinch Bug Rice Stink Bug	2.8 to 4.3 ounces (0.033 to 0.05 pound active) per acre	Mustang can be safely applied in conjunction with approved rice herbicides.  Apply by air or ground equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 5 gallons of water per acre. For increased control, crop oil concentrate at 16 fluid ounces per acre may be used.  For control of rice water weevil in <b>dry seeded rice</b> , make a foliar application as indicated by scouting for the presence of adults and/or feeding scars, usually within a time-frame of 0-5 days after permanent flood establishment. Do not exceed 10 days from starting permanent flood until insecticide application unless scouting indicates adult weevils are not present. Adults may also be treated at later stages of rice development to reduce overwintering populations.  For control of rice water weevil in <b>water seeded rice</b> , make the first application after flooding when scouting indicates the presence of adults and/or feeding scars. Application should usually begin when rice has emerged 0.5 inch above the waterline. Under conditions of prolonged migration into the field, start field scouting for rice water weevil adults and/or feeding scars 3-5 days after the initial treatment and, if needed, apply a second application within 7-10 days of the first application. Adults may also be treated at later stages of rice development to reduce overwintering populations.  Green bug is known to have many biotypes. Mustang may only provide suppression. If satisfactory control is not achieved with the first application of Mustang, a resistant biotype may be present. Use alternate chemistry for control.  Follow appropriate spray drift precautions on this label.
Do not make applications less than 7 days apart. Do not release floodwater within 7 days of an application. A maximum of 0.20 pound active ingredient (1.1 pints) may be applied per acre per season. Do not use treated rice field for the aquaculture of edible fish and crustacea. Do not apply as an ultra-low volume (ULV) spray.  <sup>1</sup> Aphid control may be variable depending on species present and host-plant relationships.		



**Sorghum (Grain) and Millet (14 day phi for grain and stover; 45 day phi for forage):**

Insects Controlled	Rate of Application	Method of Application
Cutworm spp. Sorghum Midge	1.4 to 4.3 ounces (0.016 to 0.05 pound active) per acre	Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
Amyworm, Fall Amyworm, Southern Amyworm, True Amyworm, Yellow-Striped Corn Borer, European <sup>1</sup> Corn Borer, Southwestern <sup>1</sup> Corn Earworm Flea Beetle spp. Hornworms Stink Bug spp. Webworm spp.	1.9 to 4.3 ounces (0.022 to 0.05 pound active) per acre	Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2 gallons by air). The addition of one to two quarts of emulsified oil per acre to the spray solution may improve spray deposition and insect control.  For sorghum midge control, begin applications when 25% of the sorghum heads have emerged and are in tip bloom. Repeat applications at 10-day intervals if needed.
Aphid spp. <sup>2,3</sup> Armyworm, Beet <sup>3</sup> Chinch Bug False Chinch Bug Grasshopper spp. Lesser Cornstalk Borer <sup>1</sup> Thrips spp. <sup>3,4</sup> Whitefly spp. <sup>3,4</sup>	3.4 to 4.3 ounces (0.04 to 0.05 pound active) per acre	For chinch bug control, begin applications when bugs migrate from small grains or grass weeds to small sorghum. Direct spray to the base of plants with sufficient spray volume to penetrate the soil/stem interface, leaf collars, and sheaths.  Follow appropriate spray drift precautions on this label.
<p>Do not make applications less than 10 days apart. Do not apply more than 0.25 pound active ingredient per acre per season.</p> <p><sup>1</sup> For control before the larva bores into the plant stalk. <sup>2</sup> Aphid control may be variable depending on species present and host-plant relationships. <sup>3</sup> See resistance statement under "Directions For Use" section <sup>4</sup> Aids in Control</p>		

**Soybeans (21 day phi):**

Insects Controlled	Rate of Application	Method of Application
Cutworm spp. Painted Lady (Thistle) Caterpillar Saltmarsh Caterpillar Silverspotted Skipper	1.4 to 4.3 ounces (0.016 to 0.05 pound active) per acre	Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
Alfalfa Caterpillar Amyworm, Southern Amyworm, True Amyworm, Yellowstriped Bean Leaf Beetle <sup>1</sup> Blister Beetle spp. Colorado Potato Beetle Corn Borer, European Corn Earworm Corn Rootworm Beetle (adult) Cowpea Curculio Cucumber Beetle European Corn Borer Flea Beetle Green Cloverworm Hornworms Imported Cabbageworm Japanese Beetle Leaf Skeletonizer spp. Leafhopper spp. Leafminers (adults) Mexican Bean Beetle Pea Leaf Weevil Plant Bug spp. Potato Leafhopper Seedcorn Maggot (adult) Soybean Aphid Spittlebug Three-Cornered Alfalfa Hopper Tobacco Budworm <sup>2</sup> Velvetbean Caterpillar Webworm spp. Woollybear Caterpillar	3.0 to 4.3 ounces (0.035 to 0.05 pound active) per acre	Apply with either aerial or ground equipment using sufficient spray volume to obtain full coverage of the plant and foliage. Use a minimum of 2 gallons of finished spray per acre by air or 10 gallons of finished spray per acre by ground. The addition of one to two quarts of emulsified oil per acre to the spray solution may improve spray deposition and insect control.  Follow appropriate spray drift precautions on this label.
Amyworm, Beet Amyworm, Fall Grasshopper spp. Lesser Cornstalk Borer <sup>3</sup> Looper spp. <sup>2</sup> Stink Bug spp. Thrips spp. <sup>2,3</sup> Whitefly spp. <sup>2,3</sup>	3.4 to 4.3 ounces (0.04 to 0.05 pound active) per acre	
<p>Do not make applications less than 7 days apart. Do not graze or harvest treated soybean forage, straw, or hay for live-stock feed. Do not apply more than 0.3 pound active ingredient per acre per season.</p> <p><sup>1</sup> Use higher recommended dosage for increased pest pressure, increased residual pest control, or later-season applications. <sup>2</sup> See resistance statement under "Directions For Use" section <sup>3</sup> Aids in control</p>		

10/10

**Sugar Beet (50 day phl for tops or roots)**

Insects Controlled	Rate of Application	Method of Application
<b>Foliar Application:</b> Armyworms Blister Beetles Click Beetles Cutworms Flea Beetles Grasshoppers Heliopsis spp. Leafhoppers Leafminer (adults) Loopers Lygus Bugs Sugar Beet Root Maggot (adult) Sugar Beet Crown Borer Thistle Caterpillar Webworms Zebra Caterpillar Aphids <sup>1</sup>	2.4 to 4.3 ounces (0.028 to 0.05 pound active) per acre	Make applications when insect populations reach economic thresholds. Refer to local Cooperative Extension Pest Management Guidelines and/or scouting results.  Apply by air or by ground equipment using sufficient water to obtain full coverage of foliage (minimum of 2 gallons per acre by air and 10 gallons per acre by ground).  Follow appropriate spray drift precautions on this label.
<b>At Plant Application:</b> Sugar Beet Root Maggot (larvae) <sup>2</sup>	4.3 ounces (0.05 pound active) per acre	For light to moderate infestations only. Make a 3-4 inch T-Band (band over the open furrow) at planting in a minimum of 3-5 gallons per acre.
White Grub Wireworm		Apply in-furrow or in a 3 - 4 inch T-Band (band over the open furrow) at planting in a minimum of 3-5 gallons per acre.
Cutworm species		Apply at planting on the soil surface in a 5-7 inch band or broadcast in a minimum of 3-5 gallons per acre.
Do not apply more than 0.15 pound active ingredient per acre per season including at plant plus foliar applications of Mustang. <sup>1</sup> Aphid control may be variable depending on species present and host-plant relationships. <sup>2</sup> Suppression only.		

**Wheat and Triticale (14 day phl for grain, forage, and hay):**

Insects Controlled	Rate of Application	Method of Application
Cutworm spp., including Army Cutworm Painted Lady (Thistle) Caterpillar	1.4 to 4.3 ounces (0.016 to 0.05 pound active) per acre	Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
Armyworm, Southern Armyworm, True Armyworm, Yellowstriped Cereal Leaf Beetle Flea Beetle spp. Pale Western Cutworm Plant Bug spp. Spittlebug Webworm spp.	1.9 to 4.3 ounces (0.022 to 0.05 pound active) per acre	Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2 gallons by air).  For chinch bug control, begin applications when bugs migrate from small grains or grass weeds. Apply sufficient spray volume to penetrate the soil/stem interface, leaf collars, and sheaths.
Aphid spp. <sup>1,2</sup> Armyworm, Beet <sup>2</sup> Armyworm, Fall Chinch Bug Grass Sawfly Grasshopper spp. Greenbug <sup>2,3</sup> Stink Bug spp. Thrips spp. <sup>2,3</sup> Wheat Stem Sawfly (adult) <sup>3</sup> Whitefly spp. <sup>2,3</sup>	3.4 to 4.3 ounces (0.04 to 0.05 pound active) per acre	Follow appropriate spray drift precautions on this label.
Do not make applications less than 14 days apart. Do not apply more than 0.25 pound active ingredient per acre per season. <sup>1</sup> Aphid control may be variable depending on species present and host-plant relationships. <sup>2</sup> See resistance statement under "Directions For Use" section <sup>3</sup> Aids in Control		

**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.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control of FMC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold FMC and Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use. FMC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE, OR USE OF THIS PRODUCT. Any warranties, express or implied, having been made are inapplicable if this product has been contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) seller or FMC, and buyer assumes the risk of any such use.

In no event shall FMC or seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF FMC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF FMC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

This Conditions of Sale and Limitation of Warranty and Liability may not be amended by any oral or written agreement.

**FMC**, Ammo, Capture, Fury, Mustang, Mustang MAX - trademarks of FMC Corporation  
 Asana--trademark of E.I. duPont de Nemours & Company  
 Ambush, Karate--trademarks of Syngenta  
 Baythroid--Trademark of Bayer Aktiengesellschaft  
 Danitol--trademark of Sumitomo Chemical Company, LTD  
 Scout--trademark of Hoechst Schering Agrovo S.A.

2004 FMC Corporation All Rights Reserved