

SPECIMEN LABEL

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.

Code 537

15057074

Ammo

2.5 EC Insecticide

EPA Reg. No. 279-3027-AA-5905

EPA Est. 279-FL-1

Active Ingredient:

Cypermethrin**.....30.6%

Inert Ingredients***.....69.4%
100.0%

*(±) α -Cyano (3-phenoxyphenyl)methyl (±) *cis/trans* 3-(2,2-dichloroethenyl)-2,2 dimethylcyclopropane carboxylate

***Cis/trans* ratio: Max. 55% (±) *cis* and min. 45% (±) *trans*

***Contains xylene range aromatic solvents.

Contains 2.5 pounds cypermethrin per gallon.

U.S. Patent No. 4,024,163

KEEP OUT OF REACH OF CHILDREN

CAUTION

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.)

See other panels for additional precautionary information.

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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

HOT LINE 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 1-800-424-9300 for emergency medical treatment information.

Helena Chemical Company

225 Schilling Boulevard, Suite 300

Collierville, TN 38017

12/2000

Note to Physician:

Like the natural pyrethrins, the synthetic derivative is expected to have relatively minor toxicity in humans; in fact, any significant acute toxic effects are more likely from a carrier hydrocarbon solvent.

Consequently, induction of vomiting may increase the likelihood of the most important toxic potential, chemical pneumonia, and so should either be avoided or done only under medical supervision. Ingestion of a large amount calls for gastric lavage, with care (Trendelenburg position, suction available, cuffed endotracheal tube if patient is unconscious) to avoid intrapulmonary aspiration. A saline cathartic (sodium or magnesium sulfate), 15-30 gm. dissolved in water should

be given, as should 15-20 gm. activated charcoal as a slurry in water. Digestible fats, oils, or alcohol may increase absorption and so should be avoided. Skin contact (vapor or powder) may be followed by transient tingling or numbness, usually of the face, but this subsides without treatment.

For Emergency Assistance Call (800) 424-9300

PRECAUTIONARY STATEMENTS

Hazards to Humans (and Domestic Animals)

CAUTION

Harmful if absorbed through skin, inhaled or swallowed. Causes eye irritation. Avoid breathing vapor or spray mist. Avoid contact with skin, may cause sensitization reaction in some individuals. Avoid contact with eyes or clothing.

Product should be opened and poured in a well ventilated area.

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: Coveralls over short-sleeved shirt and short pants. Chemical-resistant gloves, such as Barrier Laminate or Nitrile Rubber or Neoprene Rubber or Viton, Shoes plus socks, and Protective eyewear.

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

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.

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

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 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.

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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 REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR 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 intervals. 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 over short-sleeved shirt and short pants, Chemical-resistant gloves, such as Barrier Laminate or Nitrile Rubber or Neoprene Rubber or Viton, Shoes plus socks, and Protective eyewear.

STORAGE AND DISPOSAL

Pesticide Storage

Do not store below 10°F, (-12°C). 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 800-424-9300.

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 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 an 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

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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 in 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 motor 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 pesticide and capable of being fitted with a system interlock.

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

Ammo 2.5EC insecticide should be applied continuously for the duration of the water application. **Ammo 2.5EC** should be diluted in sufficient volume to insure 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 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.

Rotational Crops

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

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

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

Cotton (14 day phi)

DOSAGE			
PEST	LB AIA	FLOZIA	REMARKS
Preemergent Use:	0.025 to	1.3 to 5	Use Ammo 2.5EC in the time period from 14 days prior to planting up to
Cutworms	0.1		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 a minimum of 1 gallon of water per acre by air. Use
			the higher rates of Ammo 2.5EC when incorporating the soil.
Foliar Use:	0.025 to	1.3 to 5	Ammo 2.5EC may be applied in water or refined vegetable oil.
Cutworms	0.1		When water is used, apply a minimum of one gallon of finished spray per acre

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Tobacco Thrips		by air or five gallons of finished spray with ground equipment. When applying in
Soybean (banded)		water by air, one quart of emulsified oil may be substituted
Thrips		for one quart of water in the finished spray. When using oil, use
Foliar Use:		a minimum of one quart per acre in the finished spray.
Boll Weevil	0.04 to	2 to 5
Cabbage Looper	0.1	Ammo 2.5EC may be injected into overhead sprinkler irrigation
Cabbage Bollworm		water provided 1) an anti-backflow check valve is present between the
Cotton Fleahopper		injection port and the water source, 2) a check valve is present in the
Cotton Leaf		line to prevent irrigation water from entering the chemical supply tank
Perforator		and 3) the irrigation injection system has interlocking on-off switches.
European Corn		
Borer		
Fall Armyworm		
Lygus Bugs		
Other Plant Bugs		
Pink Bollworm		
Saltmarsh		
Caterpillar		
Tarnished Plant		
Bug		
Tobacco Budworm		
White Flies*		
Yellow Striped		
Armyworm		
		For boll weevil control, apply Ammo 2.5EC at a 3 to 4 day
Foliar Use:	0.06 to	3 to 5
		interval until pest numbers are reduced to acceptable levels.
Beet Armyworm**	0.1	A maximum of 0.6 lb. active ingredient may be applied per
		acre per season. Do not graze or feed cotton for forage.

*Aids in control.

**For control of beet armyworms only in the high plains of Texas, Arizona, and California.

Tank-Mixture

Ammo 2.5EC insecticide may be applied in tank mixtures with other products approved for use on cotton, brassica, bulb vegetables, head lettuce, and pecans. Observe all restrictions and precautions which appear on the labels of these products.

For improved control of aphids and mites on cotton, **Ammo 2.5EC** may be tank-mixed with Curacon® 8E. The tank-mixture is most effective when pest populations are first observed. Subsequent applications may be needed to maintain control.

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

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.

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

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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.

Head and Stem Brassica Vegetable including: Broccoli; Chinese Broccoli (gai lan, white flowering broccoli); Brussels Sprouts; Cauliflower; Cavalo broccolo; Kohlrabi; Cabbage; Chinese Cabbage (napa) (tight-heading varieties only) (1 day phi)

DOSAGE			
PEST	LB A/A	FLOZ/A	REMARKS
Cutworms	0.05 to	2.5 to 5	Apply in water as necessary for insect control using a
Corn Earworm	0.1		minimum of 15 gallons of finished spray per acre with
Tobacco Budworm			ground equipment and 5 gallons per acre by air.
Lygus Bugs			Lower rates of Ammo 2.5 EC insecticide should be used
Saltmarsh			under light to moderate insect pressure. Higher rates
Caterpillar			should be used to control heavy to extremely heavy
Leafhoppers			to extremely heavy insect populations. Do not make
Flea Beetles			applications less than 7 days apart.
Imported			A maximum of 0.6 lb. active ingredient may be applied per
Cabbageworm			acre per season.
Cucumber Beetles			In areas where arid climatic conditions persist, such as
Aphids*			California and Arizona, higher than minimum recommended
Whiteflies*			rates may be required. Follow appropriate spray drift
Armyworms	0.075 to	3.75 to 5	precautions listed for cotton, brassica, lettuce and onions.
Loopers	0.1		*aids in control
Stinkbugs			
Crickets			
GroundBeetles			
Onion Thrips			
Wireworm			
(adults)			

Leafy Brassica Greens including: Broccoli Raab (rapini); Chinese cabbage (bok choy); Chinese Mustard Cabbage (gai choy); Collards; Kale; Mizuna; Mustard Spinach; Rape Greens. (1 day phi)

DOSAGE			
PEST	LB A/A	FLOZ/A	REMARKS
Cutworms	0.05 to	2.5 to 5	Apply in water as necessary for insect control using
Corn Earworms	0.1		a minimum of 15 gallons of finished spray per
Tobacco			acre with ground equipment and 5 gallons per acre by air.
Budworm			Lower rates of Ammo 2.5 EC insecticide should be used
Lygus Bugs			under light to moderate insect pressure. Higher rates
Saltmarsh			should be used to control heavy to extremely heavy
Caterpillar			insect populations. Do not make applications less than
Leafhoppers			7 days apart. A maximum of 0.4 lb. active
Flea Beetles			ingredient per acre per season.
Imported			In areas where arid climatic conditions persist, such as
Cabbageworm			California and Arizona, higher than minimum
Cucumber Beetles			recommended rates may be required. Follow appropriate
Aphids*			spray drift precautions listed for cotton, brassica,
Whiteflies*			lettuce and onions.
Armyworms	0.075 to	3.75 to 5	*aids in control
Loopers	0.1		
Stinkbugs			
Crickets			
GroundBeetles			
Onion Thrips			
Wireworm			
(adults)			

Lettuce, Head (5 day phi)

DOSAGE			
PEST	LB A/A	FLOZ/A	REMARKS
Corn Earworm	0.05 to	2.5 to 5	Apply in water as necessary for insect control using a
Cucumber Beetles	0.1		minimum of 15 gallons of finished spray per acre with
Cutworms			ground equipment and 5 gallons per acre by air.
Diamondback			Lower rates of Ammo 2.5 EC should be used under light to
Moth			moderate insect pressure. Higher rates should be
Flea Beetles			used to control heavy to extremely heavy insect
Imported			populations.
Cabbageworm			A maximum of 0.6 lb. active ingredient may be
Leafhoppers			applied per acre per season. In areas where arid climatic
Lygus Bugs			conditions persist, such as California and Arizona, higher
Saltmarsh			than minimum recommended rates may
Caterpillar			be used required.
Tobacco			
Budworm			
Armyworms	0.075 to	3.75 to 5	Follow appropriate spray drift precautions listed for cotton,

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Crickets	0.1	brassicas, lettuce and onions.
Loopers		
Onion Thrips		
Stinkbugs		

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

DOSAGE			
PEST	LB A/A	FLOZ/A	REMARKS
Onion Thrips	0.08 to 0.1	4 to 5	Apply Ammo 2.5 EC in a minimum of 20 gallons per
Aphids	0.04 to	2 to 5	acre with ground equipment or in a minimum of 3
Armyworms	0.1		gallons per acre by aircraft. Begin applications
Cutworms			when pests appear. Do not make applications less than
Leafminers			7 days apart. To control Onion Thrips. Use higher
Onion maggot			rates as population increases and avoid rescue
Adults			situations. Use of a crop oil concentrate at 16 fl. oz./A is
Stink Bugs			recommended.
			A maximum of 0.5 lb. active ingredient may be applied per
			acre per season. Do not graze livestock in treated
			areas or cut treated crops for feed. Follow appropriate spray
			drift precautions listed for cotton, brassicas, lettuce and
			onions.

Pecans (21 day phi)

DOSAGE			
PEST	LB A/A	FLOZ/A	REMARKS
Black Pecan	0.06 to	3 to 5	Applications at the lower rate should be made when pest
Aphid	0.10		populations are low. Rates should be increased
Hickory			as the pest pressure increases. Apply by ground
Shuckworm			equipment to the point of drip. Use 100 gallons of
Pecan Nut			dilute spray per acre for smaller trees. For larger
Casebearer			trees which require higher gallonage to achieve
Pecan Weevil			adequate coverage, apply in 200 to 300 gallons
Yellow Pecan			of water. In order to calculate the correct
Aphid			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 0.8 lb. active ingredient per
			acre season may be applied prior to shuck split.
			Do not graze livestock in treated
			orchards or cut treated cover crop for feed.

Dealers Should Sell in Original Packages Only.

Terms of Sale or Use: On purchase of this product buyer and user agree to the following conditions:

Warranty: Helena makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Except as so warranted, the product is sold as is. Buyer and user assume all risk of use and/or handling storage of this material when such use and/or handling storage is contrary to label instructions.

Directions and Recommendations: Follow directions carefully. Timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the seller and are assumed by the buyer at his own risk.

Use of Product: Helena's recommendations for the use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice.

Damages: Buyer's or user's exclusive remedy for damages for breach of warranty or negligence shall be limited to direct damages not exceeding the purchase price paid and shall not include incidental or consequential damages.

Ambush, Cymbush, Karate and Warrior- Trademarks of Zeneca Ag Products

Asana- Trademark of E.I. duPont de Nemours and Co., Inc.

Baythroid- Trademark of Bayer AG

Curacron- Trademark of Novartis

Scout- Trademark of Hoechst Roussel Agri-Vet Company

Ammo, Capture, Pounce- Trademarks of FMC Corporation

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