

Code 1572



Net Contents

# SHARK®

## HERBICIDE

### For Sale and Use Only in California

For Agricultural or Commercial Use Only

EPA Reg. No. 279-3194

EPA Est. 279-

<b>Active Ingredient:</b>	<b>By Wt.</b>
Carfentrazone-ethyl: Ethyl $\alpha$ ,2-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorobenzenepropanoate .....	40.0%
<b>Inert Ingredients:</b> .....	60.0%
	<hr/> 100.0%

Contains 40% W/W of active ingredient per pound of product  
Active ingredient made in China, formulated and packaged in USA  
U.S. Patent No. 5,125,958

**KEEP OUT OF REACH OF CHILDREN**

### CAUTION 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:** Carfentrazone-ethyl is expected to have low oral and dermal toxicity, and moderate inhalation toxicity. It is expected to be slightly irritating to the skin and minimally irritating to the eyes. This product contains a granular material (sand) that may cause mechanical irritation to the eyes. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care.

See other panels for additional precautionary information.



FMC Corporation  
Agricultural Products Group  
Philadelphia PA 19103

Shark\_3\_05-28-2002

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

**Caution**  
Harmful if swallowed, absorbed through the skin or inhaled. Causes moderate eye irritation. Avoid breathing dust. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.

**Personal Protective Equipment (PPE)**  
Applicators and other handlers must wear: long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. 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.

<p><b>User Safety Recommendations:</b> Users should:</p> <ul style="list-style-type: none"> <li>Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</li> </ul>
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### Environmental Hazards

Carfentrazone-ethyl is very toxic to algae and moderately toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the high water mark, except as specified on this label. Do not contaminate water when disposing of equipment washwaters.

### 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 through any type of irrigation system.

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.

<p><b>AGRICULTURAL USE REQUIREMENTS</b></p> <p>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.</p> <p>Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.</p> <p>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, and shoes plus socks.</p>
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## STORAGE AND DISPOSAL

### Pesticide Storage

Not for use or storage in or around the house.

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 granule or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by inappropriate storage or disposal.

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

To confine spill: Dike surrounding area, sweep up spillage. Dispose of in accordance with information given under Pesticide Disposal. Wash spill area with water, absorb with sand, cat litter or commercial clay, sweep up and dispose of in an approved manner. Place damaged container in a larger holding container. Identify contents per required hazardous waste labeling regulations.

### Pesticide Disposal

Waste resulting from the use of this product may be disposed of at an approved waste disposal facility.

### Container Disposal

Plastic containers: Triple rinse (or equivalent). Then offer for approved pesticide container recycling program, or puncture and dispose of in an approved waste disposal facility. Provided on site incineration is allowed by state and local authorities, stay out of smoke.

## GENERAL INFORMATION

Shark™ Herbicide is a water dispersible granule formulation. It is designed to be mixed with water and applied to , corn (field, sweet, seed, popcorn, and silage), cotton, grain sorghum, pearl millet, proso millet, rice, soybeans, wheat, barley, oats, and wild rice for selective postemergence control of broadleaf weeds. Weed control is best when the product is applied to actively growing weeds up to 4 inches in height. Shark is a contact herbicide with little or no residual activity at recommended use rates.

Shark is rapidly absorbed through the foliage of plants. The herbicide is rain fast within one hour after application. Within a few hours following application, the foliage of susceptible weeds show signs of dessication, and in subsequent days necrosis and death of the plant. Due to environmental conditions and with certain spray tank additives, some herbicidal symptoms may appear on the crop. However, the crop recovers quickly with no loss in yield.

Extremes in environmental conditions e.g. temperature and moisture, soil conditions, and cultural practices may affect the activity of Shark. Under warm moist conditions, herbicide symptoms may be accelerated. While under very dry conditions, the expression of herbicide symptoms is delayed, and weeds hardened off by drought are less susceptible to Shark.

### Tank Mixtures

Shark may be tank mixed with other herbicides to control weeds not listed on this label. Read and follow all manufacturer's label recommendations for the companion herbicide except for specific recommendations on this label. Tank mixtures of Shark with EC formulations of other crop protection products, crop oil concentrate, methylated seed oil, silicone based adjuvants, 28% nitrogen or ammonium sulfate may increase leaf injury.

### With adjuvants

Use a non-ionic surfactant (NIS) having at least 80% active ingredient strength at 0.25% v/v (2 pints per 100 gallons of spray solution) OR a non-ionic surfactant at 0.25% v/v (2 pints per 100 gallons) plus 28% nitrogen (UAN) at 2 to 4 quarts per 100 gallons or ammonium sulfate (AMS) at 2-4 pounds per acre where recommended by those companion herbicides listed on this label. In the latter case, the level of injury may be higher than with NIS alone. Crop oil or crop oil plus either 28% nitrogen or ammonium sulfate may be used with companion herbicides listed on this label and may be recommended under very dry conditions.

Do not use with tank additives that alter the pH of the spray solution below pH 5 or above pH 8. Buffer spray solution to alter the pH range as appropriate.

### Mixing and Loading Instructions:

Fill the spray tank 3/4 full with clean water. Make sure the agitation system is operating. Add the recommended amount of Shark and complete filling the spray tank to the desired level. The spray tank agitation should be sufficient to ensure uniform spray mixture during application. When tank mixing with other products, Shark should be mixed first in the spray tank. After the product is thoroughly mixed, add the other products as specified on their label. Ensure the compatibility of other products with Shark before mixing them together in the spray tank.

## SPRAY EQUIPMENT CLEAN-OUT:

After spraying Shark and before using sprayer equipment for any other applications, the sprayer must be thoroughly cleaned using the following procedure. In addition, users must take appropriate steps to ensure proper equipment clean-out for any other products mixed with Shark herbicides as explained on the other product labels.

1. Drain the sprayer tank, hoses and spray boom. Use a high pressure wash to remove physical sediment and residues from the inside of the sprayer tank and thoroughly rinse. Then thoroughly flush sprayer hoses, boom and nozzles with clean water.

2. Fill the tank 1/2 full with clean water, and add appropriate spray tank cleaner (follow manufacturer's directions for use). Fill the tank to capacity and operate the sprayer for 15 minutes to flush hoses, boom and nozzles.

3. Drain the sprayer system. Rinse the tank with clean water and flush through the hoses, boom, and nozzles. Remove and clean spray tips and screens separately.

4. Properly dispose of all cleaning solution and rinsate in accordance with Federal, State, and local regulations and guidelines.

## PRODUCT APPLICATION GUIDELINES:

Thorough weed coverage with the spray mixture is essential for optimum weed control. Do not apply when conditions are conducive to spray drift, poor spray deposition or poor weed coverage.

When Shark is applied as a tank mixture with other herbicides, read and follow the label directions of the other product if they are more restrictive than those of the Shark label.

Utilize a boom and nozzle sprayer equipped with the appropriate nozzles, spray tips and screens and adjusted to provide optimum spray distribution and coverage at the appropriate operating pressures.

## GROUND APPLICATION

Each operating nozzle shall produce a droplet size not less than 500 microns volume mean diameter with no more than 10 percent of the diameter by volume less than 200 microns. Apply a minimum of 10 gallons of finished spray per acre. Higher spray volumes are required when there is a dense weed population or crop canopy. Sprayers should be adjusted and operated to avoid the application of excessive herbicide rates directly over the rows and/or into the whorl of treated crop plants. Be aware that overlaps and slower ground speeds while starting, stopping or turning while spraying may result in crop effects.

## AERIAL APPLICATION

Each operating nozzle shall produce a droplet size not less than 600 microns volume mean diameter with no more than 10 percent of the diameter by volume less than 200 microns. Aerial applications shall not be made at a boom height greater than 10 feet above the top of the target canopy unless a greater height is required for aircraft safety. Apply a minimum of 10 gallons of finished spray per acre. Higher spray volumes are required when there is a dense weed population or crop canopy.

## SPRAY DRIFT MANAGEMENT

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR AND THE GROWER.

The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target movement from ground and aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications of dry materials.

### For Aerial application

1. The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor. Reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees. Significant deflection from horizontal will reduce droplet size and increase drift potential.

Where states have more stringent regulations, they must be observed.

## INFORMATION ON DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (See Wind, Temperature and Humidity, and Temperature Inversions).

## SPRAY DRIFT MANAGEMENT (CONTINUED)

### CONTROLLING DROPLET SIZE

**Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.

**Pressure** - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

**Number of nozzles** - Use the minimum number of nozzles that provide uniform coverage.

**Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low drift nozzles. For aerial application, solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

### APPLICATION HEIGHT

Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

### SWATH ADJUSTMENT

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the application equipment upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.)

### WIND

Drift potential is lowest between winds speeds of 3-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

### TEMPERATURE AND HUMIDITY

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

### TEMPERATURE INVERSIONS

Applications shall not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures 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 or an aircraft smoke generator. 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 air mixing.

### SENSITIVE AREAS

The pesticide should only be applied when the wind is blowing away from adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops).

### CROP ROTATION GUIDELINES FOLLOWING AN APPLICATION OF SHARK HERBICIDE

Corn (field, sweet, seed, popcorn, and silage), cotton, soybeans, grain sorghum, rice, wheat, barley, oats, buckwheat, pearl millet, proso millet, rye, teosinte, triticale, and wildrice may be planted any time following an application of Shark. Root and tuber vegetables and leafy vegetables crop groups may be planted after 30 days following an application of Shark. All other crops may be planted after 12 months following an application of Shark. Follow rotation statements on tank mix products if they are more restrictive.

## Post Fallow or Preplant Burndown

### Timing and Method of Application

Apply Shark™ Herbicide alone or with other herbicides in the post fallow period prior to planting or emergence of labeled crops to control or suppress annual broadleaf weeds. For all products used in tank mixes, refer to the specific product labels for all restrictions on tank mixing and observe all label precautions, instructions and rotational cropping restrictions. Do not apply more than 1 ounce (0.023 pound active ingredient) per acre per season post fallow/preplant burndown and labeled crop applications to soybeans. Do not apply more than 1.24 ounces (0.031 pound active ingredient) per acre per season including post fallow/preplant burndown and labeled crop applications to barley, corn, oats, or wheat. Do not apply more than 0.6 ounce (0.015 pounds active ingredient) per acre per season post fallow/preplant burndown and labeled crop applications to sorghum. Do not apply more than 12 ounces (0.30 pound active ingredient) per acre per season post fallow/preplant burndown and labeled crop applications to rice.

For best performance, make applications to actively growing weeds up to 4 inches high or rosettes less than 3 inches across. Coverage is essential for good control. Optimum broad spectrum control of annual and perennial weeds requires a tank mix of a broad spectrum burndown herbicide such as RoundUp Ultra®, Touchdown® or Gramoxone® Extra.

For ground application do not apply within 100 feet of sensitive crops.

### For Aerial Application:

For applications near desirable perennial vegetation or crops before bud break and after total leaf drop, and/or near other desirable vegetation or annual crops:

- Do not apply within 100 feet of all desirable vegetation or crops.
- If wind up to 10 miles per hour is blowing toward desirable vegetation or crops, do not apply within 500 feet of the desirable vegetation or crops.
- Do not apply when winds are in excess of 10 mph or when inversion conditions exist.

### Fallow Systems

Shark may be applied by ground or air. **Coverage is essential for good control.** Applications made by ground equipment shall utilize a minimum finished spray volume of 10 gallons of spray per acre. Applications made by air shall utilize a minimum finished spray volume of 10 gallons per acre.

Use Shark at 0.15 to 1.24 ounces (0.004-0.031 pound active ingredient) per acre in fallow systems. A nonionic surfactant or crop oil concentrate may be used to enhance activity of Shark Herbicide in fallow systems. Use a nonionic surfactant at 0.25% v/v (2 pints per 100 gallons of spray solution) having at least 80% active ingredient or a petroleum or vegetable seed based oil concentrate at 1.5 to 2.0 pints per acre.

# CORN: FIELD CORN, SEED CORN, POPCORN CORN SILAGE, SWEET CORN FOR PROCESSING, AND FRESH MARKET SWEET CORN:

## TIMING AND METHOD OF APPLICATION

Apply Shark™ Herbicide alone or as a tank mixture with other herbicides to emerged and actively growing weeds. Apply to corn in all tillage systems from 30 days before planting up to 8 leaf collar growth stage. Do not apply when conditions favoring drift exist or wind is above 10 mph. Do not apply more than 1.24 ounces (0.031 pound active ingredient) per acre per season including fallow/preplant burndown and labeled crop applications.

For best performance, make application to actively growing weeds up to 4 inches high and rosettes less than 3 inches across. **Coverage is essential for good control.**

Use a nonionic surfactant at 0.25% v/v (2 pints per 100 gallons of spray solution) having at least 80% active ingredient. Under dry conditions the use of a crop oil concentrate may improve weed control. The use of a crop oil concentrate may increase leaf speckling on the treated corn leaves.

To control weeds not listed on this label, Shark Herbicide may be tank mixed with other herbicides registered for use in corn. Refer to the other product's label for restrictions on tank mixing, and observe all label precautions, instructions, and rotational cropping restrictions

Sprayer should be adjusted and operated to avoid the application of excessive herbicide rates directly over the rows and/or into the whorl of the corn plant. Shark herbicide may be applied with drop nozzles. Do not apply within 100 feet of sensitive crops.

### Use Rates

Use Shark™ at 1/3 ounce (0.008 pound active ingredient) per acre. Applications shall be made by ground equipment using a minimum finished spray volume of 10 gallons of spray per acre. When applied as directed, Shark will control the following weeds:

### Weeds controlled

Common Lambsquarters (up to 3 inches tall)

Morningglories (2-3 true leaves),

Ivyleaf and Pitted

Nightshade, Eastern Black (up to 4 inches tall)

Pigweed, Redroot (up to 4 inches tall)

Velvetleaf (up to 18 inches tall or up to 36 inches with drop nozzles)

In addition to the above weeds listed as controlled, Shark will suppress or partially control the following weeds:

### Weeds suppressed (up to 4 inches tall)

Cocklebur

Common Ragweed

Common (annual) Sunflower

Field Bindweed

Jimsonweed

Kochia

Morningglory, Entireleaf

Palmer Amaranth

Pennsylvania Smartweed

Pigweed, Smooth

Prickly Sida

Prostrate Spurge

Smooth Groundcherry

Trumpet Creeper

Waterhemp (tall, common)

## Tank Mixtures

Shark may be tank mixed with other herbicides to control weeds not listed on this label. Read and follow all manufacturer's label recommendations for the companion herbicide except for specific recommendations on this label. When tank mixing Shark with other products, be sure the Shark is mixed in the spray tank water first.

For control of additional broadleaf weeds and grasses, Shark may be tank mixed with 2,4-D (amine), Accent®, Accent Gold®, Atrazine, Banvel®, Basis®, Basis Gold®, Beacon®, Clarity™, Distinct®, Exceed®, Horner®, Liberty®, Lightning®, Marksman®, Northstar™, Permit®, Poast, Roundup®, Roundup Ultra®, Scorpion® III, Sencor®, Shotgun®, Spirit™, Sterling®, Touchdown®, and Tough®.

When tank mixing Shark with Accent, Accent Gold, Atrazine, Basis Gold, Liberty, Poast®, Roundup Ultra, and Shotgun use adjuvants recommended on the tank mix partner label. These may include nonionic surfactant, crop oil concentrate, 28% nitrogen, ammonium sulfate or combinations of these.

Leaf injury can occur when Shark is used with certain crop protection products and adjuvants. Refer to the Tank Mixtures and Recommended Adjuvants sections under General Information.

### Seed Production

For seed production fields, apply Shark™ Herbicide using drop nozzles only. Avoid directing spray solution into the whorl.

### With Atrazine

Shark may be tank mixed at a rate of 1/3 ounce (0.008 pound active ingredient) per acre with Atrazine 4L (16 fluid ounces per acre) or Atrazine 90DF (9 ounces per acre) to control the following weeds:

### Weeds (up to 4 inches tall)

Amaranth, Palmer

Amaranth, Spiny

Buffalobur

Carpetweed

Cocklebur, Common

Croton, Wolly

Devilsclaw

Eveningprimrose, Cutleaf

Hophornbean Copperleaf

Jimsonweed

Lambsquarters, Common

Morningglory, Entireleaf

Morningglory, Ivyleaf

Morningglory, Pitted

Morningglory, Scarlet

Morningglory, Tall

\*Suppression or partial control

Refer to the Atrazine labels for additional weed listings and for higher use rates.

Nightshade, Eastern Black

Nightshade, Silverleaf

Pigweed, Redroot

Pigweed, Smooth

Pigweed, (Triazine resistant)

Purslane, Common

\*Ragweed, Common

Sesbania, Hemp

\*Smartweed, annual

Spurred Anoda

Velvetleaf

Venice Mallow

Waterhemp, Common

Waterhemp, Tall

\*Ragweed, Giant

\*Sunflower, Wild

### For control of giant and common ragweeds, annual smartweeds, and wild sunflower:

Shark™ plus Atrazine can be tank mixed with 2,4-D (amine), Banvel® or Clarity herbicides. Add 2,4-D (amine) to the tank mix at 0.125 - 0.25 pound active ingredient per acre or Banvel® or Clarity at 3-4 fluid ounces per acre. Higher rates of Atrazine, Banvel® or Clarity herbicides can be used, but do not exceed the recommended label use rates allowed by these labels. Add a 0.25% v/v nonionic surfactant (2 pints per 100 gallons) to the tank mixture, or under very dry soil moisture conditions, the use of crop oil concentrate (1% v/v or 1 gallon per 100 gallon spray solution) may improve weed control. However, the use of crop oil concentrate may increase leaf injury. Refer to the Tank Mixture section for information on potential leaf injury.

### With Banvel® or Clarity

Shark at 1/3 ounce per acre plus 0.25% v/v nonionic surfactant (2 pints per 100 gallons) can be tank mixed with Banvel® or Clarity herbicides (8 fluid ounces per acre) for control of general broadleaf weeds including the following:

#### Weeds (up to 4 inches tall)

Cocklebur, common  
Lambsquarters  
Morningglory, Entireleaf  
Morningglory, Ivyleaf  
Morningglory, Pitted  
Morningglory, Scarlet  
Morningglory, Tall  
Nightshade, Black  
Pigweed, Redroot  
Pigweed, Smooth  
Pigweed (triazine resistant)  
Ragweed, Common  
Ragweed, Giant  
Smartweed, Pennsylvania  
Velvetleaf  
Waterhemp, Tall and Common

Refer to the Banvel® or Clarity labels for additional weed listings and for higher use rates.

Refer to the Tank Mixture Section for information on potential leaf injury.

## COTTON

### TIMING AND METHOD OF APPLICATION

#### Post-Directed and Layby Application

Shark herbicide is a contact herbicide for postemergence directed spray or hooded/shielded sprayer control of broadleaf weeds in cotton. Apply Shark herbicide alone or as a tank mixture with other herbicides to emerged and actively growing weeds. Directed spray or hooded spray applications of Shark herbicide or Shark tank mixes shall utilize application equipment that will prevent contact of spray solution with the cotton plant. Do not allow spray solution to contact cotton foliage or green stem tissue. Directed spray equipment shall position nozzles a minimum 3 to 4 inches above the soil, with nozzles directed underneath the crop canopy. Shark or Shark tank mixes shall be made on cotton at a minimum of 6 inches in height. Applications on cotton at 5 to 6 nodes or less must be made with hooded or shielded sprayer equipment to completely avoid contact with cotton plants.

Layby applications of Shark or Shark tank mixtures at later growth stages of cotton may be made when cotton plants have achieved a height of 12 inches or more with sufficient bark development and height differential between crop bottom leaves and the soil. Spray solution shall be directed at the base of cotton plants for minimal contact with green stem tissue or foliage while maintaining maximum contact with broadleaf weeds that are at appropriate treatment size. Do not apply when conditions favoring drift exist or wind is above 10 mph.

For best performance, make application to actively growing weeds up to 4 inches tall and rosettes less than 3 inches across. **Coverage is essential for good control.**

Use a crop oil concentrate at 1% v/v (1 gallon per 100 gallons of spray solution).

Do not apply within 100 feet of all desirable vegetation or crops.

### Use Rates and Weeds Controlled

Apply Shark according to the table below early post-directed using a hooded sprayer and/or through layby using a minimum finished spray volume of 10 gallons per acre. Do not apply more than 2.0 ounces total per season by post-directed and layby applications.

#### Use Rates and Weeds Controlled

##### Shark Herbicide – Applied Alone

#### 1/2 ounce (0.012 lb.ai)

Amaranthus spp.  
Annual Nightshade spp.  
Purslane, common  
Spurge, prostrate  
Pennsylvania Smartweed  
Velvetleaf  
Field bindweed (burndown)  
Volunteer cotton (Roundup Ready included)  
Lambsquarter  
Mallow, Common

#### 2/3 ounce (0.016 lb.ai)

All weeds controlled at 1/2 ounce *plus*:

Cocklebur, common  
Morningglories: Ivyleaf, Pitted, Entireleaf, & Scarlet  
Kochia  
Groundcherry, Wright

#### 1.0 ounce (0.024 lb ai)

All weeds controlled at 2/3 ounce *plus*:

Silverleaf nightshade (suppression)

For control of additional broadleaf weeds and grasses, Shark Herbicide may be tank mixed with other herbicides registered for use in cotton. Shark may be tank mixed with Roundup Ultra, Staple, Buctril, Caparol, Cotoran (or other products containing Fluometuron), Karmex, MSMA, or other herbicides registered for cotton post-directed and/or lay-by applications. Refer to the other product's label for restrictions on tank mixing, and observe all label precautions, instructions and rotational cropping restrictions.

#### Defoliant Application

Shark herbicide may be used as a harvest aid to defoliate and desiccate cotton. It may be used alone or as a tank mixture with other cotton harvest aids. Do not apply when conditions favoring drift exist or wind is above 10 mph.

Use a crop oil concentrate at 1% v/v (1 gallon per 100 gallons of spray solution).

Make application when 65 percent of the expected harvestable bolls are open, or according to extension service recommendations in the use area.

#### For Aerial Application:

For applications near desirable vegetation or annual crops:

-Do not apply within 100 feet of all desirable vegetation or crops.

-If wind up to 10 miles per hour is blowing toward desirable vegetation or crops, do not apply within 500 feet of the desirable vegetation or crops.

-Do not apply when winds are in excess of 10 mph or when inversion conditions exist.

Apply as a broadcast spray at a rate of 2/3 to 1.0 ounce per acre (0.016 lb. to 0.024 lb ai per acre) in spray volume sufficient to provide complete coverage of cotton foliage. Use a minimum of 10 gallons of finished spray per acre for ground application and 10 gallons per acre for aerial application. **Coverage is essential for defoliation.** Repeat application if necessary to remove remaining foliage or control regrowth. Do not apply more than 2.0 ounces per acre total as a harvest aid. Dense cotton canopy, large plant size, and environmental conditions not conducive to product absorption or activity will reduce initial application efficacy and increase the need for a second application.

Shark may be applied as a tank mix or in sequential application with other cotton harvest aids. Shark may be tank mixed with Dropp, Def, Finish, Prep, Folex, Harvade, Ginstar, CottonQuik, or other registered cotton defoliation products. Refer to the other product's label for restrictions on tank mixing, and observe all label precautions, instructions and rotational cropping restrictions.

Do not apply within 7 days of harvest.

# RICE

## TIMING AND METHOD OF APPLICATION

Apply Shark Herbicide alone or as a tank mixture with other rice herbicides to emerged and actively growing weeds. Applications shall be made by ground equipment using a minimum finished spray volume of 10 gallons of spray per acre. Do not apply by air.

Do not apply within 1/2 mile of sensitive crops. Do not apply when conditions favoring drift exist. Do not apply more than 12 ounces (0.3 pound active ingredient) per acre per season including fallow/preplant, burndown, and labeled crop applications. Do not apply within 60 days of harvest.

Users of Shark Herbicide must hold the water on the rice fields for 30 days.

To control weeds not listed on this label, Shark Herbicide may be tank mixed with other herbicides registered for use on rice. Refer to the other product's label for restrictions on tank mixing, and observe all label precautions, instructions, and rotational cropping restrictions.

### Early Postseeding Applications to Submerged Weeds

Apply Shark at 8 oz. per acre (0.2 pounds ai). Evenly distribute the spray solution over the flooded rice. The flood water should be 2-3 inches deep. Apply at the 2-4 leaf stage of rice but not before seven days after seeding. Earlier applications may cause unacceptable crop response. Rice should be well-rooted and actively growing at the time of application. Hold the flood water static for at least five days after application of Shark. Apply Shark to weeds at the 2 leaf stage or less.

The following weeds are controlled:

Ricefield Bulrush  
California Arrowhead  
Purple Ammannia  
Redstem Ammannia  
Smallflower Umbrellaplant

### Tank Mixtures

Shark may be tank mixed with other herbicides to control weeds not listed on this label. Read and follow all manufacturer's label recommendations for the companion herbicide except for specific recommendations on this label. When tank mixing Shark with other products, be sure the Shark is mixed in the spray tank water first.

Shark may be applied before, after, or with an application of Londax®, Ordram® and Bolero® herbicides. Observe all applicable directions, restrictions (including water holding requirements) and precautions on the Londax, Ordram and Bolero labels.

### Foliar Applications to Emerged Weeds Above the Water Surface

Apply Shark to weeds at 4 oz product per acre (0.10 pounds ai) to the foliage of exposed weeds. At least 80% of the weed foliage must be exposed before spraying with Shark. For best results, apply to actively growing weeds 20-45 days postseeding or the earliest practical opportunity to spray. Weed control is enhanced with greater weed exposure. If the field was drained at application, reflood twenty four hours after application to the normal flood depth.

The following weeds are controlled or suppressed:

Ricefield Bulrush  
California Arrowhead  
Purple Ammannia (suppression only)  
Redstem Ammannia (suppression only)  
Smallflower Umbrellaplant (suppression only)

### Crop Response

Some minor leaf spotting may occur shortly after application. These symptoms are temporary and are quickly outgrown.

### Tank Mixes

Shark may be tank mixed with other herbicides to control weeds not listed on this label. Shark may be tank mixed with Propanil-containing herbicides, Londax®, Bolero®, or Whip® herbicides. Not all combinations of Shark and other formulated herbicides have been tested. In general, the EC formulations, nonionic and silicone based surfactants and crop oil concentrates, when mixed with Shark will increase leaf speckling on the rice leaves. These tank mixtures should be tested on a small portion of the field to ensure crop safety prior to general use. Use adjuvants e.g. surfactants and crop oil concentrates only if specified on this label.

# WILD RICE

## TIMING AND METHOD OF APPLICATION

Apply Shark Herbicide alone or as a tank mixture with other rice herbicides to emerged and actively growing weeds. Applications shall be made by ground equipment using a minimum finished spray volume of 10 gallons per acre. Do not apply by air.

Do not apply within 1/2 mile of sensitive crops. Do not apply when conditions favoring drift exist. Do not apply more than 12 ounces (0.3 pound active ingredient) per acre per season including fallow/preplant, burndown, and labeled crop applications. Do not apply within 60 days of harvest.

Users of Shark herbicide must hold the water on the rice fields for 30 days.

Apply Shark to weeds at the rate of 4 – 8 ounces of product per acre (0.10 - 0.20 pound active ingredient) to the foliage of exposed weeds above the water surface. Make applications after the floating leaf stage through tillering. The water in paddies may be lowered if practical. Smaller weeds with more leaf area exposed will give better control. If water is lowered for application, it should be reflooded to normal depth 24 hours after the application

The following weeds are controlled or suppressed:

Ricefield Bulrush  
California Arrowhead  
Common Waterplantain (Suppression only)  
Giant Burrweed (Suppression only)  
Purple Ammannia (Suppression only)  
Redstem Ammannia (Suppression only)  
Smallflower Umbrellaplant (Suppression only)

### Crop Response

Some leaf spotting may occur following an application. These symptoms are temporary and are quickly outgrown.

### Tank Mixes

Shark may be tank mixed with other herbicides to control weeds not listed on this label. Not all combinations of Shark and other formulated herbicides and adjuvants have been tested. In general, EC formulations, nonionic and silicone based surfactants, and crop oil concentrates, will increase leaf speckling on the wild rice leaves. These tank mixes should be tested on a small portion of the field to ensure crop safety prior to general use. Use adjuvants e.g. surfactants and crop oil concentrates only if specified on this label.

## GRAIN SORGHUM, PEARL MILLET, AND PROSO MILLET

### Timing and method of application

This product may not be applied to sweet sorghum. Apply Shark™ Herbicide alone or as a tank mixture with other herbicides to emerged and actively growing weeds. Apply to sorghum in all tillage systems from 30 days before planting up through the 6 leaf growth stage. Do not apply when conditions favoring drift exist or wind is above 10 mph. Do not apply more than 0.6 ounce (0.015 pound active ingredient) per acre per season including fallow/preplant burndown and labeled crop applications.

For best performance, make application to actively growing weeds up to 4 inches tall and rosettes less than 3 inches across. **Coverage is essential for good control.**

Use a nonionic surfactant at 0.25% v/v (2 pints per 100 gallons of spray solution) having at least 80% active ingredient. Postemergence broadcast applications of Shark with crop oil concentrate are not recommended or increased crop response may occur.

To control weeds not listed on this label, Shark Herbicide may be tank mixed with other herbicides registered for use in grain sorghum. Refer to the other product's label for restrictions on tank mixing, and observe all label precautions, instructions, and rotational cropping restrictions.

Sprayer should be adjusted and operated to avoid the application of excessive herbicide rates directly over the row and/or into the whorl of the sorghum plant. Do not apply within 100 feet of sensitive crops.

Broadcast applications of Shark to sorghum with wet foliage or application during periods of adverse environmental conditions such as cool, cloudy, wet, or high humidity can cause increased crop response. Drop nozzles are recommended if applications are to be made under any of these conditions to limit the amount of product that may get onto sorghum leaves and/or into the sorghum whorl.

When applying Shark postemergence to sorghum grown for seed, the use of drop nozzles is recommended.

### Use Rates

Use Shark at 1/3 ounce (0.008 pound active ingredient) per acre. Applications shall be made by ground equipment using a minimum finished spray volume of 10 gallons of spray per acre. When applied as directed, Shark will control the following weeds:

#### **Weeds controlled**

Common Lambsquarters (up to 3 inches)

Morningglories (2-3 true leaves),

Ivyleaf and Pitted

Nightshade, Black (up to 4 inches)

Pigweed, Redroot (up to 4 inches)

Velvetleaf (up to 18 inches or up to 36 inches with drop nozzles)

In addition to the above weeds listed as controlled, Shark will suppress or partially control the following weeds:

#### **Weeds suppressed (up to 4 inches)**

Cocklebur

Common Ragweed

Common (annual) Sunflower

Field Bindweed

Jimsonweed

Kochia

Morningglory, Entireleaf

Palmer Amaranth

Pennsylvania Smartweed

Pigweed, Smooth

Prickly Sida

Prostrate Spurge

Smooth Groundcherry

Thistle, Russian

Trumpet Creeper

Waterhemp (tall, common)

#### **Tank Mixtures**

Shark may be tank mixed with other herbicides to control weeds not listed on this label. Read and follow all manufacturer's label recommendations for the companion herbicide except for specific recommendations on this label. When tank mixing Shark with other products, be sure the Shark is mixed in the spray tank water first.

For control of additional broadleaf weeds and grasses, Shark may be tank mixed with 2,4-D (amine), Atrazine, Banvel®, Clarity™, Laddok®, Peak®, Permit®, and Sterling®.

Leaf injury can occur when Shark is used with certain formulations of crop protection products and adjuvants. Refer to the Tank Mixtures and Recommended Adjuvants sections under General Information.

## SOYBEANS

### TIMING AND METHOD OF APPLICATION

Apply Shark™ herbicide alone or as a tank mixture with other herbicides to emerged and actively growing weeds. Apply to soybeans in all tillage systems from 30 days before planting up to the third trifoliolate. Do not apply when conditions favoring drift exist. Do not apply more than one ounce per season.

For best performance, make application to actively growing weeds up to 4 inches high and rosettes less than 3 inches across. Use the higher level of listed rates when treating more mature weeds or dense vegetative growth. Coverage is essential for good control. Use a nonionic surfactant 0.25% v/v (2 pints per 100 gallons of spray solution) having at least 80% active ingredient. When soybeans are grown under very dry soil moisture conditions, a high quality sprayable liquid nitrogen fertilizer (2-4% v/v or 2-4 gallons per 100 gallon spray solution) may be used in addition to the nonionic surfactant.

To control weeds not listed on this label, Shark may be tank mixed with other herbicides registered for use on soybeans. Refer to the other product's label for restrictions on tank mixing, and observe all label precautions, instructions, and rotational cropping restrictions.

#### **Use Rates**

Use Shark at 1/3 ounce to one ounce (0.008-0.023 pound ai) per acre. Applications should be made by ground equipment using a finished volume of 10-20 gallons of spray per acre. When applied as directed, Shark will control the following weeds:

#### **Weeds (up to 4 inches tall)**

Nightshade, Black

Common Lambsquarters

Velvetleaf (up to 36 inches tall)

Pigweed, Redroot

Morningglories (2-3 true leaves),

Ivyleaf and Pitted

Do not feed treated soybean forage or soybean hay to livestock.

#### **Tank Mixtures**

Shark may be tank mixed with other herbicides to control weeds not listed on this label. Read and follow all manufacturer's label recommendations for the companion herbicide except for specific recommendations on this label. When tank mixing Shark with other products, be sure the Shark is mixed in the spray tank water first.

For control of additional broadleaf weeds and grasses, Shark may be tank mixed with Roundup®, Roundup Ultra® or Touchdown®.

Leaf injury can occur when Shark is used with certain formulations of crop protection products and adjuvants. Refer to the Tank Mixtures and Recommended Adjuvants sections under General Information.

# WHEAT, BARLEY AND OATS

## TIMING AND METHOD OF APPLICATION

Apply Shark herbicide alone or as a tank mixture with other herbicides to emerged and actively growing weeds. Apply to wheat, barley, and oats in all tillage systems from 30 days before planting up to the jointing stage of growth. Do not apply when conditions favoring drift exist. Do not harvest for forage within 7 days of application. Do not apply more than 1.24 ounces (0.031 pound active ingredient) per acre per season including fallow/preplant burndown and labeled crop applications.

For best performance, make application to actively growing weeds up to 4 inches tall and rosettes less than 3 inches across. For larger weeds and dense weed pressure, use the higher recommended rate plus tank mix combinations. **Coverage is essential for good control.**

Use a nonionic surfactant at 0.25% v/v (2 pints per 100 gallons of spray solution) having at least 80% active ingredient. A high quality sprayable liquid nitrogen fertilizer (2-4% v/v or 2-4 gallons per 100 gallon spray solution) or ammonium sulfate (AMS) at the rate of 2-4 pounds per acre may be used in addition to the nonionic surfactant. For spring wheat and barley, the addition of nitrogen fertilizer, UAN or AMS, is recommended.

To control weeds not listed on this label, Shark may be tank mixed with other herbicides registered for use in wheat, barley and oats.

Refer to the other product's label for restrictions on tank mixing, and observe all label precautions, instructions, and rotational cropping restrictions.

For ground application, do not apply within 100 feet of sensitive crops.

### For Aerial Application:

For applications near desirable perennial vegetation or crops before bud break and after total leaf drop, and/or near other desirable vegetation or annual crops:

- Do not apply within 100 feet of all desirable vegetation or crops.
- If wind up to 10 miles per hour is blowing toward desirable vegetation or crops, do not apply within 500 feet of the desirable vegetation or crops.
- Do not apply when winds are in excess of 10 mph or when inversion conditions exist.

### Weed Control

Shark may be applied by ground or air. **Coverage is essential for good control.** Applications made by ground equipment shall utilize a minimum finished spray volume of 10 gallons of spray per acre. Applications made by air shall utilize a minimum finished spray volume of 10 gallons per acre. Up to half of the spray volume (by air or ground) may be liquid nitrogen fertilizer. When applied as directed, Shark will control the following weeds:

#### Weeds controlled (up to 4 inches)

#### 0.33 to 0.66 ounce (0.008-0.016 pound active ingredient) of product per acre

Bedstraw, Catchweed  
 Flixweed  
 Mustard, Tansy  
 Nightshade, Black  
 Nightshade, Hairy  
 Pennycress, Field  
 Pigweed, Redroot  
 Velvetleaf  
 Wallflower, Bushy

In addition to the above weeds listed as controlled, Shark will suppress or partially control the following weeds:

#### Weeds suppressed (up to 4 inches)

Field Bindweed  
 \*Filaree, Redstem  
 Henbit  
 \*Kochia  
 \*Lambsquarters  
 \*Lettuce, Prickly (China)  
 \*Mustards  
 \*Shepherdspurse  
 Thistle, Canada  
 \*Thistle, Russian  
 \*Wild Buckwheat

\* See tank mix combinations with 2, 4-D and MCPA for commercial levels of control.

Shark (0.92 to 1.24 ounces per acre) controls the following weeds:

Weeds (up to 4 inches)

<u>0.92 ounce of product per acre</u>	<u>*1.24 ounces per acre</u>
Bedstraw, Catchweed	Bittercress
Flixweed	Buckwheat, Wild
Lambsquarters	Filaree, Redstem
Mustard, Tansy	Kochia
Nightshade, Black	Mustard, Tumble
Nightshade, Hairy	Pennycress, Field
Rapeseed, Volunteer	Pigweeds
Shepherdspurse	Velvetleaf
Sowthistle, Annual	Wallflower, Bushy
Thistle, Russian	

\* **This rate controls all weeds listed under all three columns.**

### Tank Mixtures with other herbicides

Shark may be tank mixed with other herbicides to control weeds not listed on this label. Read and follow all manufacturer's label recommendations for the companion herbicide except for specific recommendations on this label. When tank mixing Shark with other products, be sure the Shark is mixed in the spray tank water first.

### With 2,4-D (amine or ester) or MCPA (amine or ester)

Shark™ may be tank mixed at a rate of 0.33-0.66 ounces (0.008-0.016 pound active ingredient) per acre with 2,4-D (amine or ester) or MCPA (amine or ester) for use on wheat. For best results add 2,4-D (amine or ester) to the tank at 0.25 pound acid equivalent per acre or MCPA (amine or ester) at 0.375 pound acid equivalent per acre. Higher rates of these herbicides can be used, but do not exceed the recommended label use rates allowed by these labels. Add nitrogen fertilizer (2-4% v/v 2-4 gallons per 100 gallons or ammonium sulfate 4 lbs. per acre) to the tank mixture. When applied as directed, Shark in tank mixtures with 2,4-D (amine or ester) or MCPA (amine or ester) herbicides will control the following weeds:

Weeds controlled (up to 4 inches)\*

Bedstraw, Catchweed  
 Buckwheat, Wild  
 Bushy Wallflower  
 Croton, Woolly  
 Evening Primrose, Cutleaf  
 Fiddleneck  
 Filaree, Redstem  
 \*\*Flixweed  
 Gromwell, Common  
 Groundsel, Common  
 \*Knotweed, Prostrate  
 Kochia (including Kochia resistant to other herbicides)  
 Lambsquarters, Common  
 Lettuce, Minors  
 Lettuce, Prickly (China)  
 \*\*London Rocket  
 \*\*\*Mustard, Blue  
 \*\*Mustard, Tansy  
 \*\*Mustard, Tumble  
 \*\*Mustard, Wild  
 Nightshade, Black  
 Nightshade, Silverleaf  
 \*\*Pennycress, Field  
 \*\*Pepperweed, Greenflower  
 Pigweed, Prostrate  
 Pigweed, Redroot  
 Pigweed, Smooth  
 Pigweed, Tumble  
 Radish, Wild  
 Speedwell, Ivy leaf  
 Sowthistle  
 Sunflower, Wild  
 Tarweed, Coast  
 Thistle, Russian (including Russian  
 Thistle resistant to other herbicides)  
 Waterhemp, Tall

\*For Knotweed control, use Shark + 2,4-D (amine or ester) only.

\*\*These weeds can be treated from the rosette through bolting growth stages.

\*\*\*Apply to rosette growth stage (before bolting) of blue mustard.



### With other herbicides

For control of additional broadleaf weeds and grasses, Shark may be tank mixed with other labelled herbicides including: all currently labeled Sulfonyl-urea herbicides (i.e. Harmony® Extra, Ally®, Amber®, etc.) Achieve®, Assert®, Curtail®, Dicamba (Banvel®, Clarity™, Sterling™), Express®, Finesse®, Hoelon®, Peak®, Puma®, Starane®, Starane+Salvo®, Starane+Sword®, 2,4-D (amine or ester), and MCPA (amine or ester). When tank mixing with Puma® or Assert use the recommended adjuvants. When tank mixing with Puma® do not use a non-ionic surfactant in the spray solution.

Aim may be tank mixed with Ally® and Finesse® for use on wheat and barley only.

Tank mixtures of Shark with EC or Ester formulations of other crop protection products may increase leaf injury. Do not use Shark with crop oil concentrate, methylated seed oil or silicone base adjuvants.

For Shark plus grass herbicide tank mixes, follow adjuvant recommendations for the grass herbicide partner.

### 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.**

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