



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

September 8, 2017

Ms. Patricia Flis
Product Registration Manager
FMC Corporation
2929 Walnut Street
Philadelphia, PA 19104

Subject: Label and CSF Amendment –*Removing the petroleum distillate precautionary language and, revising Basic and Alternate CSF #2*
Product Name: **STINGRAY AQUATIC HERBICIDE**
EPA Registration Number: 279-3279
Application Date: May 23, 2017
Decision Number: 530328

Dear Ms. Flis:

The amended label and CSF(s) referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, are acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Please note that the record for this product currently contains the following CSF(s):

- Basic CSF dated 05/23/2017
- Alternate CSF 1 dated 09/08/2016
- Alternate CSF 2 dated 05/23/2017

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the

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website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Eleanor Thornton by phone at 703-305-6799, or via email at Thornton.eleanor@epa.gov.



Shaja B. Joyner, Product Manager 20
Fungicide-Herbicide Branch
Registration Division 7505P

Enclosure

Stingray™

AQUATIC HERBICIDE

EPA Reg. No 279-3279

EPA Est. 279-

Active Ingredient:	By Wt.
Carfentrazone-ethyl:.....	21.3%
Other Ingredients:	<u>78.7%</u>
	100.0%

This product contains 1.9 pounds active ingredient per gallon.
U.S. Patent No. 5,125,958

KEEP OUT OF REACH OF CHILDREN CAUTION

See other panels for additional precautionary information.

FIRST AID	
IF INHALED:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • 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 by a poison control center or doctor. • Do not give anything 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: This product 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. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care.

For Information Regarding the Use of this Product Call 1-800-321-1FMC (1362).

PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals CAUTION

Harmful if swallowed, absorbed through the skin or inhaled. Causes moderate eye irritation. Avoid breathing spray mist. 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.

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:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing".
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

This product is very toxic to certain species of algae and moderately toxic to fish.

For aquatic uses, apply to water only as specified on this label.

DIRECTIONS FOR USE

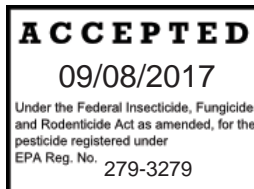
It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

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.

Re-entry Statement for aquatic uses: Do not enter treated areas while treatments are in progress.



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STORAGE AND DISPOSAL

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

Pesticide Storage

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.

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: If liquid, dike surrounding area or absorb with sand, cat litter, commercial clay or gel absorbents. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

Pesticide Disposal

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

Container Disposal

Metal or Plastic Containers - Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: **(For containers greater than 5 gallons)** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **(For containers 5 gallons or less)** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Then offer for recycling if available, 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.

Returnable/Refillable Containers - Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

PRODUCT INFORMATION

STINGRAY Aquatic Herbicide is a liquid formulation which is emulsifiable in water. It is designed to be mixed with water and applied to aquatic areas for control of floating and emerged weeds. Weed control is more effective on immature, actively growing weeds than on mature, less actively growing weeds. This product is a contact herbicide with little or no residual activity at specified use rates.

This product is rapidly absorbed through the foliage of plants. The herbicide is rainfast within one hour after application. Within a few hours following application, the foliage of susceptible weeds may show signs of desiccation, and in subsequent weeks necrosis and death of the plant.

Extremes in environmental conditions (e.g. temperature and pH), may affect the activity of this product. Under warm conditions, herbicide symptoms may be accelerated.

Precaution: Use of dirty or muddy water when preparing spray mixtures to apply this product may result in reduced herbicidal activity.

Restrictions

- Applications made to moving bodies of water must be made while traveling upstream to prevent concentration of this herbicide in water.
- When making any bankside applications, do not overlap more than 1 foot into open water.
- Do not spray in bodies of water where weeds do not exist.
- Avoid applying under conditions of high wind or wave action.
- The maximum application rate of 13.5 fluid ounces per acre (0.2 lbs ai per acre) must not be exceeded in any single broadcast application that is being made over water.

Tank Mix Directions

This product may be tank mixed with other aquatic herbicides (e.g. 2,4-D, diquat, triclopyr, imazapyr and glyphosate) to control weeds not listed on this label. Refer to the companion herbicide label for use directions, precautions and restrictions on use. Stingray Aquatic Herbicide is believed to be compatible with most other aquatic herbicides. However, when preparing a new tank mix, always conduct a physical compatibility test by mixing proportional amounts of all spray ingredients in a test vessel (jar). Shake the mixture vigorously and allow it to stand for five to ten minutes. Rapid precipitation of the ingredients and failure to re-suspend when shaken indicates that the mixture is incompatible and must not be applied.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

AQUATIC USE DIRECTIONS

Necessary approval and/or permits must be obtained prior to application if required. Consult the responsible State Agencies (i.e., Fish and Game agencies or Department of Natural Resources).

For applications to aquatic sites including ponds, lakes, reservoirs, marshes, wetlands, bayous, drainage ditches, canals, streams, rivers, and other slow-moving or quiescent bodies of water for control of aquatic weeds. For use by:

1. Corps of Engineers.
2. Federal or State Public Agencies (i.e., Water Management District personnel, municipal officials).
3. Applicators and/or Licensees (Certified for aquatic pest control) that are authorized by the State or local government.

Treatment of dense weed areas may result in oxygen loss from decomposition of dead weeds. This loss of oxygen may cause fish suffocation. Therefore, treat up to a maximum of half of the water body area at one time. Wait a minimum of 14 days before retreatment or treatment of the remaining half of the water body.

Floating mats of vegetation may require retreatment. Avoid wash-off of sprayed foliage by spray boat or recreational boat backwash or by rainfall within 1 hour of application. Wait a minimum of 14 days between retreatment of the same body of water. Do not exceed 13.5 fluid ounces per acre (0.2 lb a.i per acre) in any single application.

For treatments after drawdown of water or in dry ditches, allow 7 or more days after treatment before reintroduction of water to achieve maximum weed control. Apply this product within 1 day after drawdown to ensure application to actively growing weeds.

Do not apply this product directly to water within 1/4 mile up-stream of an active potable water intake in flowing water (i.e., river, stream, etc.) or within 1/4 mile of an active potable water intake in a standing body of water such as a lake, pond or reservoir. To make aquatic applications around and within 1/4 mile of active potable water intakes, the water intake must be turned off prior to and for a minimum period of 24 hours after the application. The water intake may be turned on prior to 24 hours if the carfentrazone-ethyl and major degradate level in the intake water is below 0.2 parts per million as determined by analysis by FMC approved laboratory. These aquatic applications may be made ONLY in those cases where there are alternative water sources or holding ponds which would permit the turning off of an active potable water intake for a minimum period of 24 hours after the applications. This restriction does NOT apply to intermittent inadvertent overspray of water in terrestrial use sites.

There is no restriction on the use of treated water for recreation or domestic purposes.

Irrigation

Irrigation from Stingray treated area may result in injury to the irrigated vegetation. Do not use treated water for irrigation in commercial nurseries or greenhouses. For crops, do not use treated water for irrigation purposes until 14 days after treatment where treatment is to 20% or more of the surface area, or until analysis by FMC approved laboratory determines the carfentrazone-ethyl and major degradate level in intake water is less than 5 ppb.

Treated water may be used for irrigation by commercial turf farms and on residential turf and ornamentals without a holding restriction providing the application was made as a spot treatment to 20% or less of the water body surface area. If more than 20 % of the water body surface is treated, do not use the water for irrigation by commercial turf farms or on residential turf and ornamentals until 14 days after treatment, or until analysis by FMC approved laboratory determines the carfentrazone-ethyl and major degradate level in intake water is less than 5 ppb.

The following table summarizes water holding periods prior to using treated water.

IF POSTING IS REQUIRED BY YOUR STATE OR TRIBE - CONSULT THE AGENCY RESPONSIBLE FOR PESTICIDE REGULATIONS FOR SPECIFIC DETAILS.

SUBMERGED WEEDS

For control of Eurasian watermilfoil (*Myriophyllum spicatum*) and other susceptible submerged weeds in ponds, lakes, reservoirs, and in non-irrigation canals or ditches that have little or no continuous outflow, apply Stingray as a subsurface application or as a surface application with a suitable polymer to sink the spray mixture (See Subsurface Application below). The amount of Stingray needed per surface acre can be determined from the chart below to provide an initial carfentrazone-ethyl (active ingredient) concentration of 200 ppb in treated water. Total concentration of carfentrazone-ethyl must not exceed 200 ppb in the treated water area.

Apply in spring or early summer when Eurasian watermilfoil or other submersed weeds are actively growing.

Subsurface Application

Inject desired amount of Stingray spray mixture directly into the water through a boat-mounted application system. Stingray may be applied as a surface spray only in combination with a suitable polymer or similar adjuvant that will ensure rapid sinking and mixing of the spray mix.

Gallons of Stingray per Surface Acre at Specified Depth

Water Depth (feet)	Gallons of F8426 per Surface Acre
1	0.286
2	0.574
3	0.858
4	1.15
5	1.43
6	1.72
7	2.01
8	2.29
9	2.58
10	2.86
15	4.30
20	5.74

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 must 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, to the extent consistent with applicable law, 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. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, 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 used contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) seller or FMC, and, to the extent consistent with applicable law, buyer assumes the risk of any such use.

To the extent consistent with applicable law, FMC or seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, 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.

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Water Use Restrictions Following Applications with Stingray Aquatic Herbicide		
Water Use	20 % of the surface acre treated	20- 50 % of the surface acre treated (spot treatment)
Drinking	0 day	1 day
Fishing and swimming	0 day	0 day
Livestock** consumption	0 day	1 day
Spray tank applications* and Irrigation to Commercial Turf Farms and Residential Turf and Ornamentals	0 day	14 days
Spray tank applications* and Irrigation to Food Crops	0 day	14 days

* For preparing agricultural sprays for food crops, turf, or ornamentals (to prevent phytotoxicity), do not use water treated with Stingray Aquatic Herbicide before the specified time period.

**Treated water may not be used as a water source for livestock until the carfentrazone-ethyl and major degradate level has dropped to less than 0.2 ppm.

ADJUVANTS

Applications of this product require the addition of a spray adjuvant. For best results, use methylated seed oils or nonionic surfactants at recommended manufacturers rates. Adjuvants that improve adherence to the leaf surface will also improve effectiveness.

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

WEED CONTROL INFORMATION

Apply this product in accordance with the following table:

Weed Species	Pounds Active per Surface Acre	Stingray (fl. oz.) per Acre	Stingray (ml) per 1,000 sq. ft.
Water-lettuce (<i>Pistia stratiotes</i>)	0.05 - 0.2	3.4 - 13.5	2 - 9
Water-hyacinth (<i>Eichornia crassipes</i>)	0.1 - 0.2	6.7 - 13.5	5 - 9
Salvinia (<i>Salvinia minima</i> , <i>Salvinia molesta</i>)	0.05 - 0.2	3.4 - 13.5	2 - 9
Duckweed (<i>Lemna spp.</i>)	0.2	6.7 - 13.5	5 - 9
Mosquito fern (<i>Azolla caroliniana</i>)	0.2	13.5	9
Water spinach (<i>Ipomoea aquatica</i>)	0.2	13.5	9
Watermeals (<i>Wolffia spp.</i>)	0.2	13.5	9
Alligatorweed (<i>Alternanthera philoxeroides</i>) (Suppression)	0.2	6.7 - 13.5	5 - 9
Water primrose (<i>Ludwigia octovalvis</i>) (Suppression)	0.2	13.5	9

Use higher rates in the rate range when plants are mature, when the weed mass is dense, or for difficult to control species. Retreatment may be necessary for plants missed in previous application and for regrowth.

SURFACE APPLICATION

Use a backpack or knapsack sprayer for shoreline applications or a spray boom, handgun or other similar suitable equipment mounted on a boat or vehicle. In mixed weed populations, select the rate from the range corresponding to the most difficult to control weed. Thorough wetting of foliage is essential for maximum effectiveness. Use 20 to 200 gallons of spray mixture per acre. Special precautions such as the use of low spray pressure or large droplet producing nozzles may minimize spray drift in areas near sensitive crops.