



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Nikki Yepez
Canyon Group, LLC
c/o Gowan Company
370 South Main Street
Yuma, AZ 85364

JAN 08 2013

Subject: Notification per PR Notice 98-10 – Revised Basic CSF
~~CONFIDENTIAL~~ Sedgehammer
EPA Reg. No. 81880-1
Application Dated: November 19, 2012

Dear Ms. Yepez:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the subject product.

The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of this notice. The revised basic CSF, dated November 19, 2012 has been date stamped "Notification" and will be placed in our records, replacing all previously submitted versions

If you have any questions regarding this letter, please feel free to contact Maggie Rudick at (703) 347-0257 or rudick.maggie@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Maggie Rudick".

Maggie Rudick, Product Branch 25
Herbicide Branch
Registration Division (7505P)

GROUP	B	2	HERBICIDE
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NOTIFICATION
JAN - 8 2013

SEDGEHAMMER® is a selective herbicide for the control of nutsedge and other weeds in turfgrass and landscaped areas.

ACTIVE INGREDIENT: * Halosulfuron-methyl.....	% By Wt. 75.0%
OTHER INGREDIENTS:	25.0%
	Total: 100.0%

Read the entire label before using this product. Use only according to label instructions. Read **"NOTICE OF CONDITIONS OF SALE AND WARRANTY AND LIABILITY LIMITATIONS"** before buying or using. If terms are not acceptable, return at once unopened.

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID	
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 5 minutes, then continue rinsing eye. • Call poison control center or physician for treatment advice.
IF SWALLOWED	<ul style="list-style-type: none"> • Call poison control center or physician immediately for treatment advice. • Remove visible particles from mouth. • Have person rinse mouth thoroughly with water, spit out rinse water. • 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.
Have the product container or label with you when calling a poison control center or physician, or going for treatment. FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL TOLL FREE 1-888-478-0798. This product is identified as SEDGEHAMMER TURF HERBICIDE, EPA Reg. No. 81880-1-10163.	

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

CAUSES MODERATE EYE IRRITATION. HARMFUL IF SWALLOWED. Avoid contact with eyes 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
- shoes plus socks.

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

When handlers use closed systems, or 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: <ul style="list-style-type: none"> • Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. • Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

NET CONTENTS ___ OUNCES

EPA Reg. No. 81880-1-10163
 EPA Est. No. 67545-AZ-002



Produced For:
 Gowan Company
 P.O. Box 5569
 Yuma, AZ 85366-5569

ENVIRONMENTAL HAZARDS

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 contaminate water when disposing of equipment washwaters or rinsate.

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

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. This product must be used in accordance with the Directions For Use on this label or in separately published Gowan Supplemental Labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

- 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,
- shoes plus socks,
- chemical resistant gloves, such as nitrile rubber, neoprene rubber or polyethylene. For more options, follow instructions for category A (dry and water-based formulations) on an EPA chemical resistant category selection chart.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep people off treated areas until spray solution has dried.

GENERAL INFORMATION

SEDGEHAMMER is a selective herbicide for post-emergence control of sedges such as purple and yellow nutsedge in established lawns, ornamental turfgrass, and landscaped areas. SEDGEHAMMER may be applied to commercial and residential turf and on other non-crop sites including: airports, cemeteries, fallow areas, golf courses, landscaped areas, public recreation areas, residential property, roadsides, school grounds, sod or turf seed farms, sports fields, landscaped areas with established woody ornamental, fairgrounds, race tracks, tennis courts, campgrounds and rights-of-way.

TURFGRASSES

When applied as directed under the conditions described, the following established turfgrasses are tolerant to this product:

Cool-Season Grasses

Bentgrass, creeping
Agrostis stolonifera

Fescue, fine
Festuca arundinacea

Ryegrass, perennial
Lolium perenne

Bluegrass, Kentucky
Poa pratensis

Fescue, tall
Festuca arundinacea

Warm-Season Grasses

Bahiagrass
Paspalum notatum

Seashore paspalum
Paspalum vaginatum

Kikuyugrass
Pennisetum clandestinum

Bermudagrass
Cynodon dactylon

St. Augustinegrass
Stenotaphrum secundatum

Centipedegrass
Eremochloa ophiuroides

Zoysiagrass
Zoysia japonica

ESTABLISHED WOODY ORNAMENTALS IN LANDSCAPED AREAS

This product may be applied at specific rates as a post-directed spray around any established woody ornamental species in landscaped areas. For transplanted woody ornamentals, allow three months after transplanting before applying this product.

NOTE: Avoid contact of this product to leaves of desirable plants since foliar injury, discoloration or death may result.

FALLOW TREATMENTS

This product may be used on fallow areas prior to the establishment of turfgrass or woody ornamental plants. Allow 4 weeks between application and seeding or sodding of turfgrass, or transplanting woody ornamentals.

WEEDS CONTROLLED

When applied post-emergence, this product will control the following weeds:

Purple nutsedge <i>Cyperus rotundus</i>	Yellow nutsedge <i>Cyperus esculentus</i>
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When applied postemergence, this product will suppress the following weed:

Kyllinga spp.

APPLICATION DIRECTIONS

Rates and timing of Application

Broadcast Applications:

For post-emergence control of purple or yellow nutsedge found in established turfgrass, apply 2/3 to 1 1/3 ounces by weight of this product per acre (0.031 to 0.062 pound active ingredient per acre) after nutsedge has reached the 3 to 8 leaf stage of growth. Use the lower rate in light infestations and the higher rate in heavy infestations.

A second treatment may be required 6 to 10 weeks after the initial treatment. As a sequential treatment, when new purple or yellow nutsedge plants have reached the 3 to 8 leaf stage of growth, apply 2/3 to 1 1/3 ounces by weight of this product per acre (0.031 to 0.062 pound active ingredient per acre). Use the lower rate in light infestations and the higher rate in heavy infestations. No more than 4 applications can be made with the total use rate not exceeding (5 1/3 ounces by weight of this product (0.25 pounds active ingredient) per acre per use season.

Use 0.25-0.5 percent v/v of a nonionic surfactant (1-2 quarts per 100 gallons of spray solution) for broadcast applications. For high volume applications, DO NOT exceed 1 quart of surfactant per acre. Use only nonionic surfactants that contain at least 80 percent active material.

Spot Treatments:

Mix 0.9 gram of this product in one or two gallons of water to treat 1000 square feet. Add 2 teaspoons (1/3 fluid ounce) of nonionic surfactant per gallon of water.

INSTRUCTIONS FOR WATER DISPERSIBLE GRANULE IN 1.3 OUNCE BOTTLE: Mix 0.9 gram of this product (using the measuring scoop provided) in one or two gallons of water to treat 1000 square feet. Add 2 teaspoons (1/3 fluid ounce) of nonionic surfactant per gallon of water. Ensure the product is measured as a level scoop and not rounded.

INSTRUCTIONS FOR WATER DISPERSIBLE GRANULE PREMEASURED IN WATER SOLUBLE BAG: Add one (1) water soluble bag of this product per one or two gallons of water in a hand-held or backpack sprayer to treat 1000 square feet. Add 2 teaspoons (1/3 fluid ounce) of a nonionic surfactant per gallon of spray solution. Mix or shake thoroughly for at least two minutes to ensure that the water soluble bag and ingredients are completely dispersed. Occasionally shake the spray solution while spraying to ensure that it remains thoroughly mixed.

Spray the target weeds thoroughly and wet the entire leaf surface of the undesirable plants.

DO NOT exceed the specified amount of surfactant due to the potential for turf injury at higher rates. Refer to the surfactant label and observe all precautions, mixing and application instructions.

TANK MIX WITH GLYPHOSATE HERBICIDE IN LANDSCAPED AND FALLOW AREAS AND TURF RENOVATION.

This product may be tank mixed with Glyphosate herbicide for application as a directed spray in landscaped or fallow areas.

APPLICATION EQUIPMENT AND INSTRUCTIONS

Calibrate application equipment prior to application of this product. Application should be uniform and of sufficient volume to avoid streaking or skips. Avoid excessive overlap of the spray.

USE PRECAUTIONS

For optimum results, do not mow turf for 2 days before or 2 days after application.

This product is effective if no rainfall occurs within 3 hours, but best result are obtained with no rainfall or irrigation for at least 4 hours.

This product may be used on seeded, sodded, or sprigged turfgrass that is well established. Allow the turf to develop a good root system and uniform stand before application.

Treated areas may be overseeded with annual or perennial ryegrass or bermudagrass, 2 weeks after application.

Color plants or herbaceous ornamentals may be injured when transplanted into landscaped areas treated with SEDGEHAMMER.

Avoid application of SEDGEHAMMER when turfgrass or nutsedge is under stress since turf injury and poor nutsedge control may result.

Do not apply as an over-the-top spray to desirable flowers, ornamentals, vegetables, shrubs or trees.

Do not apply this product to golf course putting greens.

Do not apply this product through any type of irrigation system. Do not apply this product by air.

FOR USE ON ROADSIDES, RIGHT OF WAY, TANK FARMS, LUMBERYARDS, FUEL STORAGE AREAS, FALLOW LAND, AND FENCE ROWS FOR HORSETAIL CONTROL

This product may be applied at specified rates as a post-emergence spray on roadsides and other industrial sites. When applied post-emergence, this product will suppress the following weeds: cocklebur, common sunflower, common ragweed, giant ragweed, pigweed, and velvetleaf. This product may be tank mixed with Glyphosate herbicide.

Control of Horsetail (*Equisetum arvense*)

For post-emergence control of horsetail (*Equisetum arvense*), apply 2 2/3 ounces of this product per acre, or 1.8 grams of this product per 1000 square feet (0.125 pound active ingredient per acre) after horsetail has leafed out. This rate of product will control horsetail that is less than 6 inches tall and suppress horsetail that is greater than 6 inches tall.

Herbicide symptoms are likely to show within 2 weeks as a necrotic ring at the base of the plant, even though the leaves and stems remain green and a deep leathery green in color.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store under cool, dry conditions (below 120°F). Do not store under moist conditions.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product that cannot be used or chemically reprocessed must be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state, or local procedures, or in such other method as approved under those procedures.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is destroyed.

CONTAINER HANDLING:

INSTRUCTIONS FOR WATER DISPERSIBLE GRANULE IN 1.3 OUNCE BOTTLE:

Nonrefillable container. Do not reuse or refill this container. Triple rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. 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 puncture and dispose of in a sanitary landfill or by incineration. Do not burn unless allowed by state and local ordinances.

INSTRUCTIONS FOR WATER DISPERSIBLE GRANULE PREMEASURED IN WATER SOLUBLE BAG: Nonrefillable container. Do not reuse or refill this container. Completely use water soluble bags in application equipment. Offer for recycling if available, or, dispose of the empty outer foil pouch in the trash as long as WSP is unbroken.

DISPOSAL AUTHORITIES: If none of the foregoing procedures is permitted by state and local authorities, then contact your State Pesticide or Environmental control Agency, or your local Hazardous Waste Disposal office, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**FOR 24-HOUR EMERGENCY ASSISTANCE (SPILL, LEAK OR FIRE), CALL CHEMTREC® (800) 424-9300.
For more product information, call toll-free 1-800-883-1844.**

NOTICE OF CONDITIONS OF SALE AND WARRANTY AND LIABILITY LIMITATIONS

Important: Read the entire Directions for Use and Notice of Conditions of Sale and Warranty and Liability Limitations before using this product. If terms are not acceptable return the unopened container for a full refund.

Our directions for use of this product are based on tests believed to be reliable. However, it is impossible to eliminate all risk associated with the use of this product. Crop injury, inadequate performance, or other unintended consequences may result due to soil or weather conditions, off target movement, presence of other materials, method of use or application, and other factors, all of which are beyond the control of Gowan Company. All such risks shall be assumed by the Buyer and User.

Gowan Company warrants that this product conforms to the specifications on the label when used in strict conformance with Direction for Use, subject to the above stated risk limitations. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, GOWAN COMPANY MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, GOWAN COMPANY'S EXCLUSIVE LIABILITY FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, OR ANY OTHER LEGAL THEORY IS STRICTLY LIMITED TO THE PURCHASE PRICE PAID OR REPLACEMENT OF PRODUCT, AT GOWAN COMPANY'S SOLE DISCRETION.

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