

2023-12-28
2023-1019

GROUP	2	HERBICIDE
-------	----------	-----------

SEDGEHAMMER TURF HERBICIDE

SedgeHammer Turf Herbicide is a selective herbicide for the control of nutsedge and listed broadleaf weeds in turfgrass, ornamentals, landscaped areas and other specified non-crop areas.

COMMERCIAL
Wettable Granules

ACTIVE INGREDIENT:
HALOSULFURON, present as methyl ester.....72.6%



EYE IRRITANT

KEEP OUT OF REACH OF CHILDREN

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

Registration No. 31211 PEST CONTROL PRODUCTS ACT

Read the entire label before using this product. Use only according to label instructions. Read "NOTICE TO USER" before buying or using. If terms are not acceptable, return at once unopened.

NET CONTENTS 0.5 - 600 g

Canyon Group, L.L.C.
P.O. Box 5569
Yuma, AZ 85366-5569

Gowan
CANADA

1-800-960-4318

In case of a medical emergency involving this product, call 1-888-478-0798
For 24-hour emergency assistance (spill, leak or fire) call Chemtrec® at 1-800-424-9300

SAFETY INFORMATION

FIRST AID

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

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

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 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.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL TOLL FREE: 1-888-478-0798. FOR 24-HOUR EMERGENCY ASSISTANCE (SPILL, LEAK OR FIRE), CALL CHEMTREC® (800) 424-9300. For other product information, contact Gowan Company or see Material Safety Data Sheet.

TOXICOLOGICAL INFORMATION

Treat symptomatically.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- ✓ Long-sleeved shirt and long pants or coveralls
- ✓ Chemical-resistant gloves made of any waterproof material
- ✓ Shoes plus socks
- ✓ When treating roadsides and other industrial areas for horsetail with a mechanically-pressurized handgun: wear coveralls over the long-sleeved shirt and long pants, chemical-resistant 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.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

Harmful if swallowed. May irritate eyes. Avoid contact with eyes.
Do not enter or allow entry into treated areas until sprays have dried

CAUSES MODERATE EYE IRRITATION

Users should:

- ✓ Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- ✓ Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body

STORAGE

Keep SEDGEHAMMER herbicide package closed to prevent spills and contamination. To prevent contamination store this product away from food or feed.

DISPOSAL

RECYCLABLE CONTAINERS:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site.

Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial/ territorial requirements.

For information on the disposal of unused, unwanted product, contact the manufacturer or the Provincial/ Territorial Regulatory Agency. Contact the manufacturer and the Provincial/ Territorial Regulatory Agency in case of a spill, and for clean-up of spills.

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

SedgeHammer is a trademark of Gowan Company, L.L.C.

SEDGEHAMMER TURF HERBICIDE

SEDGEHAMMER Turf Herbicide is a selective herbicide for the control of nutsedge and listed broadleaf weeds in turfgrass, ornamentals, landscaped areas and other specified non-crop areas.

COMMERCIAL
Wettable Granules

ACTIVE INGREDIENT:
HALOSULFURON, present as methyl ester.....72.6%



KEEP OUT OF REACH OF CHILDREN

READ THE LABEL AND BOOKLET BEFORE USING

**Registration No. 31211
PEST CONTROL PRODUCTS ACT**

Read the entire label before using this product. Use only according to label instructions. Read "NOTICE TO USER" before buying or using. If terms are not acceptable, return at once unopened.

NET CONTENTS 0.5 - 600 g

**Canyon Group L.L.C.
P.O. Box 5569
Yuma, AZ 85366-5569**

Gowan
CANADA

1-800-960-4318

In case of a medical emergency involving this product, call 1-888-478-0798
For 24-hour emergency assistance (spill, leak or fire) call Chemtrec® at 1-800-424-9300

SAFETY INFORMATION

FIRST AID

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

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

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 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.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL TOLL FREE: 1-888-478-0798. FOR 24-HOUR EMERGENCY ASSISTANCE (SPILL, LEAK OR FIRE), CALL CHEMTREC® (800) 424-9300. For other product information, contact Gowan Company or see Material Safety Data Sheet.

TOXICOLOGICAL INFORMATION

Treat symptomatically.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants or coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- When treating roadsides and other industrial areas for horsetail with a mechanically-pressurized handgun: wear coveralls over the long-sleeved shirt and long pants, chemical-resistant 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.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

Harmful if swallowed. May irritate eyes. Avoid contact with eyes.
Do not enter or allow entry into treated areas until sprays have dried

CAUSES MODERATE EYE IRRITATION

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body

STORAGE

Keep SEDGEHAMMER Turf Herbicide package closed to prevent spills and contamination. To prevent contamination store this product away from food or feed.

DISPOSAL

RECYCLABLE CONTAINERS:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site.

Before taking the container to the collection site:

3. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
4. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial/ territorial requirements.

For information on the disposal of unused, unwanted product, contact the manufacturer or the Provincial/ Territorial Regulatory Agency. Contact the manufacturer and the Provincial/ Territorial Regulatory Agency in case of a spill, and for clean-up of spills.

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

DIRECTIONS FOR USE

GENERAL INFORMATION

SEDGEHAMMER Turf Herbicide is a selective herbicide for post-emergence control of yellow nutsedge and listed broadleaf weeds in established lawns, ornamental turfgrass, landscaped areas and commercial ornamental production nurseries. SEDGEHAMMER Turf Herbicide 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, sports fields, landscaped areas with established woody ornamentals, container and field nurseries fairgrounds, race tracks, tennis courts, campgrounds and rights-of-way.

As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

DO NOT apply by air.

Spray Buffer zones:

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label.

For application to rights-of-way, spray buffer zones for protection of sensitive terrestrial habitats are not required; however, the best available application strategies which minimize off-site drift, including meteorological conditions (e.g., wind direction, low wind speed) and spray equipment (e.g., coarse droplet sizes, minimizing height above canopy), should be used. Applicators must, however, observe the specified buffer zones for protection of sensitive aquatic habitats.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands) and sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

Method of Application	Crop	Spray Buffer Zones (metres) Required for the Protection of:		
		Freshwater Habitat of Depths:		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	
Field Sprayer	Ornamentals and turf	15	5	35
	Non-crop areas	25	10	40

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticide portion of the Canada.ca website.

MIXING INSTRUCTIONS

Fill the spray tank to about three-fourths of the desired volume and begin agitation. Add the recommended amount of SEDGEHAMMER Turf Herbicide. Complete the filling process while maintaining agitation. Remove the hose from the mixing tank immediately after filling to avoid siphoning back into the carrier source. Add nonionic surfactant and other adjuvants as the last ingredients in the tank. Spray solutions should be applied within 24 hours after mixing.

ADJUVANTS

Unless otherwise stated, nonionic surfactants (NIS) or crop oil concentrates (COC) are the only type of surfactants recommended for SEDGEHAMMER Turf Herbicide applications. Use of SEDGEHAMMER Turf Herbicide without an adjuvant when weeds are present may result in reduced efficacy. **DO NOT** use both NIS and COC in the spray mixture. Use **ONLY** the lowest labeled rate of nonionic-type surfactants that contain at least 80% active ingredients. Crop oil concentrates may be used with SEDGEHAMMER Herbicide instead of nonionic surfactants. .

TANK MIXES

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Gowan Company at 1-800-960-4318 for information before applying any tank mix that is not specifically recommended on this label.

Before mixing in the spray tank, it is recommended that compatibility be tested by mixing all components in a small container in proportionate quantities. For tank mixtures, add individual formulations to a spray tank in the following sequence: water soluble bags, dry flowables, emulsifiable concentrates, drift control additive, water soluble liquids followed by nonionic surfactant or crop oil concentrate.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, SEDGEHAMMER Turf Herbicide is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to SEDGEHAMMER Turf Herbicide and other Group 2 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of SEDGEHAMMER Turf Herbicide or other Group 2 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.

For further information or to report suspected resistance, contact Gowan Company at 1-800-960-4318.

USE RESTRICTIONS AND PRECAUTIONS

For optimum results

- Do not mow turf for 2 days before or 2 days after application.
- Within 4 hours of a SEDGEHAMMER Turf Herbicide application, avoid using irrigation or making applications when conditions favour rainfall.
- This product may be used on seeded, or sodded 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 2 weeks after application.
- Do not apply more than 187 g of SEDGEHAMMER Turf Herbicide per hectare per 12 month period

Avoid application of SEDGEHAMMER Turf Herbicide 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.
- Annual and perennial herbaceous ornamentals, including color plants, may be injured when transplanted into landscaped areas treated with SEDGEHAMMER Turf Herbicide.
- 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

CROP RECOMMENDATIONS

TURFGRASSES

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

Bentgrass, creeping <i>Agrostis stolonifera</i>	Fescues, fine (creeping red, chewings, hard, sheep) <i>Festuca rubra, Festuca trachyphylla, Festuca ovina</i>	Ryegrass, perennial <i>Lolium perenne</i>
--	--	--

Bluegrass, Kentucky <i>Poa pratensis</i>	Fescue, tall <i>Festuca arundinacea</i>
---	--

RESTRICTIONS AND PRECAUTIONS

For optimum results:

- ✓ Do not mow turf for 2 days before or 2 days after application.
- ✓ This product may be used on seeded or sodded 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 2 weeks after application.
- ✓ **Avoid application of SEDGEHAMMER Turf Herbicide when turfgrass or nutsedge is under stress since turf injury and poor nutsedge control may result.**
- ✓ Do not apply this product to golf course putting greens

ORNAMENTALS

RESTRICTIONS

To avoid possible injury on ornamental plants, do not apply SEDGEHAMMER Turf Herbicide to:

- Over the top of desirable plants. Avoid contact of this product with leaves of desirable plants since foliar injury, discoloration, stunting, or death may result.
- Greenhouses or enclosed growing structures.
- Seedling beds, cutting beds or transplant beds.
- Landscape beds that are or will be planted with annuals, seasonal color, sensitive herbaceous perennials, vegetable transplants or container plants smaller than one gallon. Do not apply to landscape areas where bare root liners will be planted.
- Newly transplanted ornamentals. Only apply SEDGEHAMMER Turf Herbicide to established plantings.
- Containers, growing media in containers or into containers grown in pot.
- Do not allow spray or drift to contact exposed roots or damaged bark of ornamental plants.

Additional Precautions:

- Allow at least 3 months of active growth after transplanting in the field before applying this product.
- Do not plantback into treated areas for at least 12 months after the last SEDGEHAMMER Turf Herbicide application.
- Do not use crop oil as an adjuvant in SEDGEHAMMER Turf Herbicide applications on ornamentals.
- Not for use in low volume applications such as with foggers, hydrostatic, or aerosol applicators

ESTABLISHED WOODY ORNAMENTALS IN LANDSCAPED AREAS

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

FIELD GROWN ORNAMENTAL PRODUCTION NURSERIES

SEDGEHAMMER Turf Herbicide may be used, at specified rates as a post-directed spray in field grown ornamental production nurseries, on the following established plant species:

Established Shrubs

<u>Common Name</u>	<u>Scientific Name</u>	<u>Common Name</u>	<u>Scientific Name</u>
Littleleaf boxwood	<i>Buxus microphylla</i>	Chinese juniper	<i>Juniperus chinensis</i>
Japanese boxwood	<i>Buxus microphylla japonica</i>	Shore juniper	<i>Juniperus conferta</i>
Korean boxwood	<i>Buxus microphylla koreana</i>	Creeping juniper	<i>Juniperus horizontalis</i>
Wintercreeper	<i>Euonymus fortunei</i>	Rhododendron	<i>Rhododendron</i>

euonymus	<i>var. radicans</i>		<i>catawbiense</i>
Gardenia	<i>Gardenia augusta</i>	Azalea	<i>Rhododendron spp.</i>
	<i>Hydrangea</i>		<i>Rhododendron x</i>
Panicled hydrangea	<i>paniculata</i>	Kurume azalea	<i>kurume</i>
Dwarf buford holly	<i>Ilex cornuta</i>	Formosa azalea	<i>Rhododendron simsii</i>
Japanese holly	<i>Ilex crenata</i>	Bumald spirea	<i>Spiraea x bumalda</i>
Dwarf yaupon holly	<i>Ilex vomitoria</i>	White lace spirea	<i>Spiraea decumbens</i>
Yellow anise	<i>Illicium parviflorum</i>	Japanese spirea	<i>Spiraea japonica</i>
		American arbovitae	<i>Thuja occidentalis</i>

Established Trees

Meserve holly	<i>Ilex x meserveae</i>	Red pine	<i>Pinus resinosa</i>
Round leaf holly	<i>Ilex rotunda</i>	White pine	<i>Pinus strobus</i>
Winterberry holly	<i>Ilex verticillata</i>	Loblolly pine	<i>Pinus taeda</i>
	<i>Lagerstroemia</i>		
Crape myrtle	<i>indica</i>	Holly oak	<i>Quercus ilex</i>
Southern magnolia	<i>Magnolia grandiflora</i>	Northern red oak	<i>Quercus rubra</i>
Star magnolia	<i>Magnolia stellata</i>	Southern live oak	<i>Quercus virginiana</i>
Austrian pine	<i>Pinus nigra</i>		

On field grown nurseries and landscape areas SEDGEHAMMER Turf Herbicide may be used -only as a directed spray- on ornamental plants species not listed on this label. The suitability for such uses should be determined by treating a small number of such plants at the specified rate and observing plant growth and development over an extended period of time. To the extent consistent with applicable law, the user assumes responsibility for any crop damage or other liability associated with applications to ornamental plants not listed on this label.

Note: Do not apply SEDGEHAMMER Turf Herbicide to the following plant species as injury has been observed.

<i>Abies balsamea</i>	<i>Balsam Fir</i>
<i>Acer rubrum</i>	<i>Red Maple</i>
<i>Berberis thunbergii</i>	<i>Japanese Barberry</i>
<i>Buddleia davidii</i>	<i>Butterfly bush</i>
<i>Carya sp.</i>	<i>Hickory</i>
<i>Chamaebatiaria sp.</i>	<i>Fern Bush</i>
<i>Chamaecyparis thyoides</i>	<i>Atlantic White Cedar</i>
<i>Cornus florida</i>	<i>Flowering Dogwood</i>
<i>Cotoneaster dammeri</i>	<i>Bearberry Cotoneaster</i>
<i>Cotoneaster horizontalis</i>	<i>Rock Cotoneaster</i>
<i>Dendranthema sp.</i>	<i>Chrysanthemum</i>
<i>Fragraria x ananassa</i>	<i>Strawberry</i>
<i>Fraxinus pennsylvanica</i>	<i>Green Ash</i>
<i>Gypsophila sp.</i>	<i>Baby's Breath</i>
<i>Hedera helix</i>	<i>English Ivy</i>
<i>Impatiens sp.</i>	<i>Impatiens</i>
<i>Iris xiphium</i>	<i>Iris</i>
<i>Juniperus virginiana</i>	<i>Eastern juniper</i>
<i>Ligustrum sp.</i>	<i>Privet</i>
<i>Lilium longiflorum</i>	<i>Eastern Lily</i>

<i>Mazus reptans</i>	<i>Mazus</i>
<i>Myrica pensylvanica</i>	<i>Northern Bayberry</i>
<i>Phalaris arundinacea</i>	<i>Ribbon Grass</i>
<i>Picea abies</i>	<i>Norway Spruce</i>
<i>Picea glauca</i>	<i>White Spruce</i>
<i>Platanus occidentalis</i>	<i>American Sycamore</i>
<i>Prunus sp.</i>	<i>Cherry</i>
<i>Pseudotsuga menziesii</i>	<i>Douglas Fir</i>
<i>Robinia pseudoacacia</i>	<i>Black Locust</i>
<i>Rosa sp.</i>	<i>Rose</i>
	<i>Salvia</i>
<i>Salvia sp.</i>	
	<i>Baldcypress</i>
<i>Taxodium distichum</i>	
<i>Taxus sp.</i>	<i>Yew</i>
<i>Viburnum carlesii</i>	<i>Koreanspice viburnum</i>
<i>Viburnum dentatum</i>	<i>Arrowwood viburnum</i>
	<i>Compact laurustinus</i>
<i>Viburnum tinus</i>	<i>viburnum</i>

CONTAINER GROWN ORNAMENTAL PRODUCTION NURSERIES

SEDGEHAMMER Turf Herbicide may be applied in nurseries for listed weed control as a directed spray application on bare ground or around container grown ornamental plants. This product can be applied to weeds growing between containers in pot production. Do not apply inside the containers. Do not apply to exposed roots growing outside of pots.

RENOVATION TREATMENTS PRIOR TO THE ESTABLISHMENT OF TURFGRASS OR WOODY ORNAMENTAL PLANTS

This product may be used on renovated 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.

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

Apply this product at specified rates as a post-emergence spray on roadsides and other industrial sites. This product may be tank mixed with glyphosate herbicide.

WEED CONTROL IN TURFGRASS, ORNAMENTALS AND RENOVATION TREATMENTS:

For post-emergence control of nutsedge and broadleaf weeds mix 0.35 - 0.9 g of this product in 4 L of water to treat 100 square metres or 35 – 93 g of product per hectare. Mix or shake the solution to ensure ingredients are completely dispersed. Spray the target weeds thoroughly and wet the entire leaf surface of the undesirable plants. For best results, spray nutsedge after it has reached the 3 to 8 leaf stage of growth.

Add 2 Teaspoons (10 mL) of nonionic surfactant per 4L. Or Use .25-.5 percent v/v of a nonionic surfactant (1-2 L / 378 L) for broadcast applications. For high volume applications, DO NOT exceed 2.5 L/ha. Use only nonionic surfactants that contain at least 80% active material.

SEDGEHAMMER Turf Herbicide often works with one application, but depending on the size and age of the nutsedge a second treatment may be required 6 to 10 weeks after the initial treatment.

HORSETAIL (*Equisetum arvense*) CONTROL IN ROADSIDES, RIGHT OF WAY, TANK FARMS, LUMBERYARDS, FUEL STORAGE AREAS, RENOVATED AREAS, AND FENCE ROWS :

For post-emergence control of horsetail (*Equisetum arvense*) apply 1.87 grams of this product in 4 L of water to treat 100 square metres or 187 g/ha after horsetail has leafed out. Mix or shake the solution to ensure ingredients are completely dispersed. This rate of product will control horsetail that is less than 15 cm tall and suppress horsetail that is greater than 15 cm 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.

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.

WEEDS CONTROLLED BY SEDGEHAMMER Turf Herbicide ALONE

C = Control, S = Suppression, NA = No Activity

WEED SPECIES	SCIENTIFIC NAME	PREEMERGENT ACTIVITY*	POSTEMERGENT ACTIVITY	WEED HEIGHT (cm) 35 - 47 g/ha	WEED HEIGHT (cm) 70 - 93 g/ha
Amaranth, spiny ²	<i>Amaranthus spinosus</i>	C ²	C ²	3 to 8	3 to 15
Bindweed, hedge	<i>Calystegia sepium</i>	NA	S	3 to 5	3 to 10
Burcucumber	<i>Sicyos angulatus</i>	NA	S	3 to 8	3 to 31
California arrowhead ³	<i>Sagittaria montevidensis</i>	NA	C ³	3 to 5	3 to 10
Chickweed, common	<i>Stellaria media</i>	C	NA	----	----
Cocklebur, common	<i>Xanthium strumarium</i>	C	C	3 to 23	3 to 36
Corn spurry	<i>Spergula arvensis</i>	C	C	3 to 5	3 to 10
Deadnettle, purple	<i>Lamium purpureum</i>	C	NA	----	----
Devils Claw	<i>Proboscidea louisiana</i>	NA	C	3 to 5	3 to 10
False daisy	<i>Ecilpta prostrata</i>	C	S	3 to 5	3 to 10
Fleabane, Philadelphia	<i>Erigeron philadelphicus</i>	NA	C	3 to 8	3 to 8
Galinsoga, hairy	<i>Galinsoga quadriradiata</i>	C	C	3 to 5	3 to 10
Groundsel, common	<i>Senecio vulgaris</i>	C	NA	----	----
Horseweed/Marestail ²	<i>Erigeron canadensis</i>	C ²	NA	----	----
Horsetail	<i>Equisetum arvense</i>	NA	S	3 to 5	3 to 10
Jimsonweed	<i>Datura stramonium</i>	C	NA	----	----
Kochia ²	<i>Kochia scoparia</i>	C ²	S ²	3 to 8	3 to 15
Lady's thumb	<i>Polygonum persicaria</i>	C	C	3 to 5	3 to 10

WEED SPECIES	SCIENTIFIC NAME	PREEMERGENT ACTIVITY*	POSTEMERGENT ACTIVITY	WEED HEIGHT (cm) 35 - 47 g/ha	WEED HEIGHT (cm) 70 - 93 g/ha
Lambs quarters, common	<i>Chenopodium album</i>	C	NA	----	----
Lettuce, prickly	<i>Lactuca serriola</i>	C	NA	----	----
Mallow, common	<i>Malva neglecta</i>	C	NA	----	----
Flower-of-an-hour	<i>Hibiscus trionum</i>	C	C	3 to 8	3 to 31
Stinking chamomile	<i>Anthemis cotula</i>	C	NA	----	----
Milkweed, common	<i>Asclepias syriaca</i>	NA	S	3 to 13	3 to 31
Milkweed, honeyvine	<i>Cyanchum laeve</i>	NA	S	3 to 13	3 to 31
Morning glory, ivyleaf ³	<i>Ipomoea hederacea</i>	NA	S ³	----	3 to 8
Morning glory, common ³	<i>Ipomoea purpurea</i>	NA	S ³	----	3 to 8
Mustard, wild	<i>Sinapis arvensis</i>	C	C	3 to 8	3 to 15
Nutsedge, Yellow ¹	<i>Cyperus esculentus</i>	S	C ¹	8 to 15	8 to 31
Pigweed, redroot ²	<i>Amaranthus retroflexus</i>	C ²	C ²	3 to 8	3 to 15
Pigweed, smooth ²	<i>Amaranthus hybridus</i>	C ²	C ²	3 to 8	3 to 15
Plantain, broadleaved	<i>Plantago major</i>	C	NA	----	----
Pokeweed, common	<i>Phytolacca Americana</i>	NA	C	3 to 8	3 to 15
Purslane	<i>Portulaca oleracea</i>	S	NA	----	----
Radish, wild	<i>Raphanus raphanistrum</i>	C	C	3 to 8	3 to 15
Ragweed, common	<i>Ambrosia artemisiifolia</i>	C ²	C ²	3 to 23	3 to 31
Ragweed, giant	<i>Ambrosia trifida</i>	NA	C ²	3 to 8	3 to 15
Shepherds purse	<i>Capsella bursa-pastoris</i>	C	S	3 to 5	3 to 10
Sida, prickly	<i>Sida spinosa</i>	NA	S	3 to 5	3 to 10
Smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>	C	S	3 to 5	3 to 10
Sunflower, common	<i>Helianthus annuus</i>	C	C	3 to 31	3 to 38
Velvetleaf	<i>Abutilon theophrasti</i>	C	C	3 to 23	3 to 31
Volunteer canola ⁴	<i>Brassica rapa</i>	C	C	3 to 8	----
Willowherb, fringed	<i>Epilobium ciliatum</i>	C	NA	----	----
Yellowcress, creeping	<i>Rorippa sylvestris</i>	C	C	3 to 5	3 to 10

1. Heavy infestations of nutsedge may require sequential applications. An earlier treatment may be required to prevent nutsedge from competing with the crop.
2. Certain biotypes of this weed species are known to be resistant to ALS herbicides. Where these ALS-resistant biotypes are known to exist, an appropriate registered herbicide, active against the weed and with another mode of action, should be used alone or in tank mixtures with SEDGEHAMMER Turf Herbicide to control these biotypes.
3. Use maximum label rates for best results.

SEDGEHAMMER is a trademark of Gowan Company, L.L.C.