



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs

Registration Division (7505T)

1200 Pennsylvania Ave., N.W.

Washington, D.C. 20460

NOTICE OF PESTICIDE:

☒ Registration

☐ Reregistration

(under FIFRA, as amended)

EPA Reg. Number:

83529-375

Date of Issuance:

2/11/25

Term of Issuance:

Unconditional

Name of Pesticide Product:

Sharda Carfen. 3.9% + Quinc. 66.1%
WDG II

Name and Address of Registrant (include ZIP Code):

Sharda USA LLC

7217 Lancaster Pike, Suite A

Hockessin, DE 19707

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

Continues page 2

Signature of Approving Official:

Emily Schmid

Emily Schmid, Product Manager 25

Herbicide Branch, Registration Division (7505P)

Date:

2/11/25

2. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 83529-375."
3. Submit one copy of the final printed label for the record before you release the product for shipment.

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 FIFRA 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) lists 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 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.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

The record for this product currently contains the following CSF(s):

- Basic CSF dated 12/07/2023

If you have any questions, please contact Jenna Wiegand at 202-566-0437 or at Wiegand.Jenna@epa.gov.

Enclosure

{MASTER LABEL}

QUINCLORAC	GROUP	4	HERBICIDE
CARFENTRAZONE-ETHYL	GROUP	14	HERBICIDE

Sharda Carfen. 3.9% + Quinc. 66.1% WDG II
ABN: Racetrack; ABN: Rectangular

For Selective Weed Control in Turf Including Residential, Commercial, and Institutional Lawns, Athletic Fields, Commercial Sod Farms, Golf Course Fairways and Roughs, and Other Listed Non-Crop Sites

ACTIVE INGREDIENTS	WT. BY %
Carfentrazone-ethyl*	3.90%
Quinclorac*	66.10%
OTHER INGREDIENTS:	30.00%
TOTAL:	100.00%

* This product contains 3.85 pounds per gallon of Quinclorac and 0.23 pounds per gallon of Carfentrazone-ethyl.

KEEP OUT OF REACH OF CHILDREN
CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand this label, find someone to explain it to you in detail.)

FIRST AID	
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 do so by a poison control center or doctor.DO NOT give anything by mouth to an unconscious person.
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 INHALED:	<ul style="list-style-type: none">Move person to fresh air.If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible.Call a poison control center or doctor for treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information concerning this product, call your poison control center at 1-800-222-1222 .	

{Optional referral statements when booklets and container labels are used:}
[See label booklet for [complete] [additional] [First Aid,] [Precautionary Statements][,] [Directions For Use][,] [and] [Storage and Disposal].]

EPA Reg. No. 83529-XXX

EPA Est. No. XXXXX-XX-XXX

Manufactured for:
Sharda USA LLC 
7217 Lancaster Pike, Suite A
Hockessin, Delaware 19707

Net [Weight] [Contents]: _____ [Lbs.][Kg]

ACCEPTED

2/11/2025

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 83529-375

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Causes moderate eye irritation. Prolonged or repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants,
- Waterproof gloves,
- 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.

USER SAFETY RECOMMENDATIONS

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to marine/estuarine invertebrates and fish. This product is very toxic to algae. **DO NOT** apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to terrestrial and aquatic plants in neighboring areas. **DO NOT** contaminate water when disposing of equipment washwaters or rinsate.

NON-TARGET ORGANISM ADVISORY STATEMENT: This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

Groundwater advisory: The active ingredients in this product are known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

DO NOT use on coarse soils classified as sand which have less than 1% organic matter.

It is a Federal offense to use any pesticide in a manner that results in the death of an endangered species. See the Endangered Species section in the Directions for Use section of this labeling.

Surface water advisory: Sharda Carfen. 3.9% + Quinc. 66.1% WDG II can contaminate surface water through spray drift. Under some conditions, Sharda Carfen. 3.9% + Quinc. 66.1% WDG II may also have a high potential for runoff into surface water (primarily via dissolution in runoff water), for several to many months post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-lying tile drainage systems that drain to surface waters.

Fish Advisory Statement: This product may be hazardous to aquatic organisms, particularly in clear, shallow water bodies that are adjacent to treated areas. Transport to water by runoff or spray drift of this product in areas where surface water is present, or intertidal areas below the mean high water mark, should be avoided. Do not contaminate water when disposing of equipment wash water or rinsate. **Non-target Organism Advisory Statement:** This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site.

Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

Endangered Species: It is a Federal offense to use any pesticide in a manner that results in an unauthorized "take" (e.g., kill or otherwise harm) of an endangered species, and certain threatened species, under the Endangered Species Act section 9. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the area in which you are applying the product. You must obtain a Bulletin no earlier than six months before using this product. To obtain Bulletins, consult <http://www.epa.gov/espp/>, call 1-844-447-3813, or email ESPP@epa.gov. You must use the Bulletin valid for the month in which you will apply the product."

DIRECTIONS FOR USE

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

This product may only be used in accordance with the Application Rates listed on this label.

Observe all precautions and limitations on this label.

Only use for sites, pests, and application methods specified on this labeling

Use Restrictions

- **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.

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 over long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks.

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, nurseries, or greenhouses.

Re-entry Statement: **DO NOT** allow people (other than applicator) or pets on treatment area during application. **DO NOT** enter treatment area until spray has dried.

PRODUCT INFORMATION

TURF USE INSTRUCTIONS

Sharda Carfen. 3.9% + Quinc. 66.1% WDG II is a selective post-emergence herbicide which controls annual grasses and broadleaf weeds in established turf areas including residential, commercial and institutional lawns, athletic fields, commercial sod farms, golf course fairways and golf course roughs.

Sharda Carfen. 3.9% + Quinc. 66.1% WDG II is formulated as a 70 WDG II (Water Dispersible Granule) containing 0.70 lb. of active ingredient (0.39 lbs carfentrazone and 0.661 lbs quinclorac) per pound of product. **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** is absorbed by shoots, foliage and roots.

A post-emergent application of **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** is improved when adequate soil moisture is present at application. Best weed control results will be obtained when no rainfall or irrigation occurs within 24 hours after application. If no rainfall or irrigation occurs within 7 days after application of **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** in the amount of 0.5 inches, when irrigation of at least 0.5 inches is recommended.

WEED RESISTANCE MANAGEMENT

For resistance management, **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** herbicide contains both a Group 4/[Quinclorac] and Group 14/ [Carfentrazone] herbicide. Any weed population may contain plants naturally resistant to Group 14 and/or Group 4 herbicides. The resistant individuals may dominate the weed population if these herbicides are used repeatedly in the same area. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance, take one or more of the following steps:

- Rotate the use this product or other Group 14 and Group 4 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or pest control advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and that considers mechanical control methods, cultural (e.g., timing to favor the turf and not the weeds), biological (weed-competitive varieties) and other management practices.
- Scout area before herbicide application for weed identification and growth stage.

- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method. Prevent movement of resistant weed seeds to other areas by cleaning equipment.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or pest control advisors for additional pesticide resistance management and/or integrated weed-management recommendations for specific types of turf and weed biotypes.
- For further information or to report suspected resistance, Sharda USA, LLC representative. You can also contact your pesticide distributor or university extension specialist to report resistance.]

MIXING AND APPLICATION INSTRUCTIONS

Handling instructions

This product may not be mixed or loaded within 50 feet of any wells (including abandoned wells and drainage wells), sink holes, perennial or intermittent streams and rivers, and natural or impounded lakes and reservoirs. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing/loading areas.

Operations that involve mixing, loading, rinsing or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well, are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rainwater that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above specific minimum containment capacities **DO NOT** apply to vehicles when delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

Product must be used in a manner which will prevent back siphoning in wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.

Spray Tank Preparation

It is important that spray equipment is clean and free of existing pesticide deposits before using this product. Follow the spray tank clean out procedures specified on the label of product previously applied before adding **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** to the tank. **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** is a water dispersible granule intended for dilution with water. Mix **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** thoroughly and continue agitation during application. If **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** is left standing for extended period of time in spray tank, reagitrate to assure uniform suspension of product in spray mixture.

Mixing With Water

For best results, fill spray tank with one fourth of the volume of clean water needed for the area to be treated. Start the agitation system and add **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** to the tank. Make sure **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** is thoroughly mixed before application or before adding another product to the spray tank.

USE OF SURFACTANTS

Addition of surface active agents (surfactants) or other adjuvants may improve effectiveness of **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** against weeds that are mature or hardened by harsh environmental conditions or that might have difficult-to-wet leaf surfaces. Adjuvant materials may also reduce the selectivity to some turfgrass varieties and increase the potential for turf injury. Follow all adjuvant manufacturer use guidelines and also read and observe all companion product label statements, precautions and restrictions regarding use of adjuvants when **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** is used in tank mixtures with other products. High Temperatures and high relative humidity may increase the risk of temporary turf discoloration.

TANK MIXTURES COMPATIBILITY

Sharda Carfen. 3.9% + Quinc. 66.1% WDG II has been found to be compatible with most herbicides, fungicides, insecticides and growth regulators commonly used in turf and ornamental plant management. However, when preparing a new tank mix conduct an appropriate compatibility test by mixing proportional amounts of all spray ingredients in a test vessel (Jar) prior to tank mixing with other products. 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 should not be applied. Provided the jar test indicates the mixture to be compatible, prepare the tank mixture as follows: Fill the tank one fourth full with water. With the agitator operating, add the recommended amounts of ingredients using the following order: dry granules first, then liquid suspensions (flowables) second. As the agitation continues and the tank is filled with water add EC products third followed by the addition of water soluble products.

Read and observe mixing instructions of all tank mix partners. Also read each product label for Directions for Use, Precautionary Statements and Restrictions and Limitations. The most restrictive labeling applies in all tank mixtures. No label dosage rate should be

exceeded. Tank mixture recommendations are for use only in states where the companion products and application site are registered. In addition, certain states or geographical regions may have established dosage rate limitations. Consult your state Pesticide Control Agency for additional information regarding the maximum use rates.

Use **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** spray mixture immediately after mixing. **DO NOT** store the mixture.

Ground Equipment

Power sprayers: Uniform and accurate spray coverage requires proper calibration, agitation and operation of spray equipment. The use of marker dyes or foams can improve application accuracy. Boom sprayers equipped with appropriate flat fan nozzles, tips and screens are ideal for broadcast applications. Power sprayers fitted with spray wand/gun may also be used for broadcast application after careful calibration by the applicator. Power sprayers fitted with spray wand/gun are suitable for spot treatments.

Hand operated sprayers: Backpack and compression sprayers are appropriate for small turfgrass areas and spot treatments. Wands fitted with a flat fan nozzle tip should be held stationary at the proper height during application. A side to side or swinging arm motion can result in uneven coverage.

Spray Volume

Apply this product in a sufficient volume of carrier solution to provide a uniform spray distribution. Spray volumes of 20 - 175 gallons per acre (0.5 to 4.0 gal/1,000 square feet) with spray pressures adjusted to 20 - 40 psi are appropriate. Apply the higher spray volumes for dense weed populations.

Spot Treatment

For Use In New York By Spot Treatment Only

Application Equipment: Power sprayers fitted with spray wand/gun may be used for spot treatments. Backpack and compression sprayers are also appropriate for small turfgrass areas and spot treatments. Wands fitted with a flat fan nozzle lip should be held stationary at the proper height during application. A side to side or swinging arm motion can result in uneven coverage.

Application Method: Adjust sprayer nozzle to give a coarse spray. Apply to the center of the weed and spray to lightly cover.

Sprayer Equipment Clean-Out

After spraying **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** and before using sprayer equipment for any other applications, the sprayer must be thoroughly cleaned using the following procedure:

1. Drain sprayer tank, hoses, and spray boom and thoroughly rinse the inside of the sprayer tank with clean water to remove sediment and residues. In addition, thoroughly flush sprayer hoses, boom, and nozzles with clean water.
2. Fill the tank 1/2 full with clean water, and add appropriate detergent or ammonia (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 rinseate in accordance with Federal, State and local regulations and guidelines.
5. **DO NOT** drain or flush equipment on or near desirable trees or plants. **DO NOT** contaminate any body of water including irrigation water that may be used on other plants.

MANDATORY SPRAY DRIFT MANAGEMENT

For ground applications, select nozzle and pressure that produce medium to coarse spray droplets as indicated in nozzle manufacturer's catalogs and in accordance with ASABE S572.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

Applicators must only spray when wind speed is 10 miles per hour or less.

- Applicators must not spray during temperature inversions.
- For aerial applications, the release height must be no higher than 10 feet from the top of the crop canopy, unless a greater application height is required for pilot safety.
- For ground boom applications, apply with the nozzle height no more than 2 feet above the ground or crop canopy. For all other ground applications, the nozzle must be no more than 4 feet from the target vegetation.
- For ground applications, select nozzle and pressure that produce medium to coarse spray droplets as indicated in nozzle manufacturer's catalogues and in accordance with ASABE Standard 572.1

Carfentrazone-ethyl is a contact herbicide. Avoid any drift conditions that would allow the product to contact desirable vegetation. Carfentrazone-ethyl is not volatile; however, mist from drift may cause injury to sensitive plants. The interactions of equipment and weather-related factors determine the potential for spray drift. The applicator is responsible for considering all of these factors when making decisions.

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

have more stringent regulations, they must be observed.

Information on Droplet Size

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions (See Wind, Temperature and Humidity, and Temperature Inversions).

All ground application equipment must be properly maintained and calibrated using appropriate carriers.

Wind speed must be measured adjacent to the application site, on the upwind side, immediately prior to application. **DO NOT** apply when wind speeds are greater than 10 mph at the application site.

Controlling Spray Droplet Size

- **Volume** - Use high flow rate nozzles to apply the greatest practical spray volume. Nozzles with higher rated flow generally produce larger droplets. Apply as a medium to coarse spray (ASBE standard 572).
- **Pressure** - do not use pressures greater than that specified by the nozzle manufacturer. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles rather than increasing spray 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. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.
- **Application Height** - Making applications at the lowest heights that is safe reduces exposure of spray droplets to evaporation and wind movement. Do not release spray at a height greater than 30 inches above the ground.
- **Swath Adjustment** - Swath adjustment distance must increase with increasing drift potential (higher wind, smaller drops, etc.).
- **Drift Reduction Technology (DRT)** - The EPA Drift Reduction Technology (DRT) Program was developed to encourage the manufacture, marketing, and use of spray technologies scientifically verified to significantly reduce pesticide drift. The use of DRTs should result in significantly less pesticide from spray applications drifting and being deposited in areas not targeted by those applications, compared to spray technologies that do not meet the minimum DRT standard. EPA-verified drift reduction technologies (DRTs) and their ratings will be added to the following webpage as they become available: <https://19january2021snapshot.epa.gov/reducing-pesticide-drift/epa-verified-and-rated-drift-reductiontechnologies.html>

Shielded Sprayers

Shielding the boom or individual nozzles can reduced the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

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

Do not apply carfentrazone-ethyl during a temperature inversion because the 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 following 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.

Wind

Drift potential is lowest between wind speeds of 3-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential. Do not apply product when wind speeds are greater than 10 mph at the application site. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they potentially affect spray drift

Sensitive Areas

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

WEED CONTROL IN TURFGRASSES

Turfgrass Tolerance

Turfgrasses tolerant to application of **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** are listed below. Sharda USA LLC does not recommend application to turfgrasses not listed:

Cool Season Grasses: (creeping bentgrass, colonial bentgrass, annual bluegrass, Kentucky bluegrass, tine fescues, red fescues, tall tescue, perennial ryegrass)

Established cool season grasses are generally tolerant to applications of **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** at labeled rates.

Tall fescue may exhibit a slight yellowing discoloration occurring within 3 to 5 days after application under some conditions. Recovery typically occurs within 4 to 7 days. If such injury or any injury cannot be tolerated, apply to a small test area before treating large areas to assure tolerance of the host turf species. Be aware of and observe all label restrictions regarding turf tolerance of companion products when **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** is tank mixed with another product.

Warm Season Grasses: (common and hybrid bermudagrass, bahiagrass, buffalograss, centipedegrass, seashore paspalum, St. Augustine grass, zoysiagrass)

Established warm season grasses listed above are generally tolerant to applications of **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** but may be susceptible to transitory yellowing when they are under stress. Stress is typically associated with but not limited to extreme high or low temperatures, Disease infection or insect infestation, extreme high or low moisture conditions or transition into or out of dormancy. Under such conditions injury in the form of transitory yellowing discoloration may occur within 3 to 7 days of application. If such injury or any injury cannot be tolerated, apply **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** in the manner you will be using it to a small test area before treating large areas to assure tolerance of the turf. Be aware of and observe all label restrictions regarding turfgrass tolerance of companion products when **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** is tank mixed with another product.

Newly Seeded, Sodded or Sprigged Turfgrass

Sharda Carfen. 3.9% + Quinc. 66.1% WDG II can be applied to the following species of turfgrass at 7 days or more after emergence for species established by both seeding and sprigging: Buffalograss, common bermudagrass, hybrid bermudagrass, St. Augustine and tall rescue.

Application to zoysiagrass should be delayed until at least 14 days after emergence to avoid extended discoloration.

Slight discoloration may be observed immediately after application for hybrid bermudagrass, however, normal turf color returns by 12 days after emergence if no other stresses are present. Areas treated with **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** may be seeded or overseeded one day following application.

Sod Production:

This product may be applied to established sod. Allow sod to establish a good root system and a uniform stand.

Dormant Turf

Applications to dormant warm-season grasses are permitted. Avoid applications when warm-season grasses are transitioning into or out of dormancy.

When applied as directed under the conditions described, the following established turfgrasses are tolerant to **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** at the use rates in a range from 0.35 to 0.79 lb. a.i./acre (8.0 to 18.0 oz./acre or 0.184 to 0.413 oz./1,000 sq. ft.).

TABLE 1: TOLERANT GRASSES

GRASS TYPE*	RECOMMENDED USE RATE - SINGLE APPLICATION		
	Lb. a.i./A	Ounces per 1,000 square feet	Ounces per acre
Cool Season Grasses	0.35 – 0.79	0.184 – 0.413	8 - 18
Bentgrass, creeping (<i>Agrostis</i> spp.) ¹			
Bluegrass, Annual (<i>Poa annua</i>)			
Bluegrass, Kentucky (<i>Poa pratensis</i>)			
Bluegrass, Rough (<i>Poa trivialis</i>)			
Fine Fescue, (<i>Festuca rubra</i>)			
Fescue, tall (<i>Festuca arundinacea</i>)			
Ryegrass, perennial (<i>Lolium perenne</i>)			
Warm Season Grasses			
Bermudagrass (<i>Cynodon dactylon</i>) & hybrids			
Buffalograss (<i>Buchloe dactyloides</i>)			
Centipedegrass (<i>Eremochloa ophiuroides</i>)			
Seashore Paspalum (<i>Paspalum vaginatum</i>)			
Zoysiagrass (<i>Zoysia japonica</i>)			
St. Augustine (<i>Stenotaphrum secundatum</i> [Walter] Kuntze)			

¹**Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** should be applied in split applications 14 to 21 days apart at rate ranging from 0.35 - 0.53 lb. a.i./A on bentgrass. To reduce any potential discoloration of turf (yellowing) addition of chelated iron made be used.

***Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** has demonstrated tolerance on both cool and warm season turfgrasses. However, not all varieties have been evaluated. Turfgrass managers desiring to treat newly released varieties should first apply **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** to a small area prior to treatment of larger areas.

Use Conversion Rates

Oz. product per 1000 sq ft	Lb. carfentrazone per acre	Lb. quinclorac per acre	Lb. total ai per acre	Oz. product per acre
0.184	0.02	0.33	0.35	8
0.275	0.03	0.50	0.53	12
0.413	0.04	0.75	0.79	18

Newly Seeded, Sodded or Sprigged Turfgrass

Sharda Carfen. 3.9% + Quinc. 66.1% WDG II herbicide can be applied to the following species of turfgrass at 7 days or more after emergence for species established by both seeding and sprigging: Buffalograss, common bermudagrass, hybrid bermudagrass, St. Augustine and tall fescue.

Dormant Turf

Applications to dormant warm-season grasses are permitted. Avoid applications when warm-season grasses are transitioning into or out of dormancy.

Sod Production

This product may be applied to established sod. Allow sod to establish a good root system and a uniform stand.

Precautions :

- Application to zoysiagrass should be delayed until at least 14 days after emergence to avoid extended discoloration.
- Slight discoloration may be observed immediately after application for hybrid bermudagrass, however, normal turf color returns by 12 days after emergence if no other stresses are present. Areas treated with **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** may be seeded or overseeded one day following application.

Restrictions:

- Yearly application must not exceed 2.27 lbs. of product/year.
- **DO NOT** apply to golf course putting greens, collars or tees.
- **DO NOT** use on turfgrasses other than those listed on this label. **DO NOT** apply to turfgrasses under stress.
- **DO NOT** treat pastures, rangeland, or other areas grazed or harvested for livestock forage or hay. **DO NOT** apply directly to landscape ornamentals or ornamental beds.
- **DO NOT** allow spray drift to contact landscape ornamentals, shrubs and trees.
- **DO NOT** use clippings as mulch or compost around flowers, ornamentals, trees or in vegetable gardens.
- Avoid spray drift onto non-target susceptible plants such as vegetables, flowers, ornamentals, trees, shrubs and other desirable plants.
- **DO NOT** apply this product to carpetgrass, dichondra, nor on lawns or turf where desirable clovers are present. **DO NOT** apply when conditions are conducive to spray drift or poor spray coverage.
- **DO NOT** apply this product by aerial application.
- **DO NOT** apply this product through any type of irrigation system.
- For use only for sites, pests, and application methods specified on this labeling.
- Treated turfgrass will recover with new growth. Discolored leaf tissue will be removed with mowing. To reduce potential for discoloration, **DO NOT** apply **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** on turfgrass that is weakened by weather, mechanical, chemical, disease or other related stress. Maintain proper cultural practices such as adequate moisture and fertility levels to promote healthy turf growth.

POST-EMERGENCE CONTROL OF GRASS AND BROADLEAF WEEDS

When used as directed **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** will control or suppress the weeds listed in Table 2 when applied alone shortly after weeds have emerged. Apply **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** at rates from 0.35 to 0.79 lb. a.i./acre (8.0 to 18 oz./acre or 0.184 to 0.413 oz./1,000 sq. ft.). **DO NOT** exceed the application rate specified for the turfgrass species in Table 1.

A post emergent application of **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** herbicide is improved when adequate soil moisture is present at application. Best weed control results will be obtained when no rainfall or irrigation occurs within 24 hours after application. If no rainfall or irrigation occurs within 7 days after application of **Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** herbicide in the amount of 0.5 inches, then irrigation of at least 0.5 inches is recommended.

TABLE 2: WEEDS CONTROLLED OR SUPPRESSED BY SHARDA CARFEN. 3.9% + QUINC. 66.1% WDG II

COMMON NAME	SCIENTIFIC NAME	CONTROLLED	SUPPRESSED
Bittercress	<i>Cardamine</i> spp.		X
Barnyardgrass	<i>Echinochloa crusgalli</i>	1	
Black medic	<i>Medicago lupulina</i>	1	
Buttercups*	<i>Ranunculus</i> spp.		X
Carolina geranium	<i>Geranium carolinianum</i>	1	
Carpetweed	<i>Mollugo verticillate</i>		X
Chickweed, common*	<i>Stellaria media</i>	1	
Chickwee, mousear	<i>Cerastium vulgatum</i>		X
Cinquefoil*	<i>Potentilla</i> spp.		X
Clover	<i>Trifolium</i> spp.	1	
Crabgrass (Large and Smooth)	<i>Digitaria</i> spp.	1	
Cudweed*	<i>Gnaphalium</i> spp.		X
Deergrass*	<i>Panicum cladestinum</i>	1	
Dallisgrass*	<i>Paspalum dilatatum</i>		X

Dandelion	<i>Taraxacum officinale</i>	1	
Dock, Curly*	<i>Rumex crispus</i>		X
Dollar Weed	<i>Hydrocotyle</i> spp.	1	
Evening primrose*	<i>Oenothera biennis</i>		X
Fiddleneck	<i>Amsinckia</i> spp.		X
Filaree	<i>Erodium</i> spp.		X
Foxtail Spp.	<i>Setaria</i> spp.	1	
Goldenrod*	<i>Solidago</i> spp.	1	
Goosegrass*	<i>Eleusine indica</i>	2	
Ground Ivy*	<i>Glechoma hederacea</i>	1	
Henbit	<i>Lamium amplexicaule</i>		X
Knotweed, prostrate	<i>Polygonum aviculare</i>		X
Kochia	<i>Kochia scoparia</i>	1	
Lambsquarters, common	<i>Chenopodium album</i>		X
Lawn burweed*	<i>Soliva pterosperma</i>		X
Lespedeza, common*	<i>Lespedeza striata</i>		X
London Rocket	<i>Sisymbrium irio</i>	1	
Mallow, common	<i>Malva neglecta</i>		
Morningglory	<i>Ipomea</i> spp.	1	X
Nutsedge, yellow*	<i>Cyperus esculentus</i>		X
Parsley piert*	<i>Alchemilla arvensis</i>	1	
Pigweed, Redroot	<i>Amaranthus retroflexus</i>	1	
Pigweed, Tumble	<i>Amaranthus albus</i>	1	
Pineapple weed*	<i>Matricaria matricarioides</i>		X
Plantain, broadleaf*	<i>Plantago major</i>	1	
Plantain, buckhorn*	<i>Plantago lanceolata</i>	1	
Puncture weed*	<i>Tribulus terrestris</i>		X
Puslane, common	<i>Portulaca oleracea</i>		X
Pusley, Florida	<i>Richardia scabra</i>	1	
Redweed*	<i>Melochia corchorifolia</i>		X
Signalgrass, broadleaf	<i>Brachiana platyphylla</i>	1	
Smartweed, Pennsylvania	<i>Polygonum pensylvanicum</i>	1	
Sorrel, Red*	<i>Rumex acetosella</i>		X
Speedwell	<i>Veronica</i> spp.	1	
Spurge (annuals)*	<i>Euphorbia</i> spp.	1	
Spurge, prostrate	<i>Euphorbia humistrata</i>	1	
Spurge, spotted*	<i>Euphorbia maculate</i>	1	
Star of Bethlehem*	<i>Ornithogalum umbellatum</i>	1	
Torpedograss	<i>Panicum repens</i> L.		X
Velvetleaf	<i>Abutilon theophrasti</i>		X
Violet, wild	<i>Viola pratincola</i>	1	
Wild garlic*	<i>Allium vineale</i>		X
Wild onion*	<i>Allium canadense</i>		X
Woodsorrel, creeping*	<i>Oxalis corniculata</i>		X
Woodsorrel, yellow*	<i>Oxalis stricta</i>	1	

[Not for use in California]

- Weeds are suppressed at lower label rates (< 8 oz./acre). For optimum control apply rates of at least 12 oz./A in a single application. **DO NOT** exceed the application rate specified for the turf species in Table 1.
- Sharda Carfen. 3.9% + Quinc. 66.1% WDG II** controls goosegrass when applied post-emergent to newly emerged weeds in the 1-4 leaf stage of development.

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store in a dry, well-ventilated area.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Spill: In case of spill, avoid contact, isolate area and keep out animals and unprotected persons.

Confine spills. Call CHEMTREC (Transportation and spills): (800) 424-9300.

To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent

dispersal. Place damaged package in a holding container. Identify contents.

CONTAINER HANDLING:

[Less Than or Equal to 5 Gallons] [Nonrefillable container. **DO NOT** reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: 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 $\frac{1}{4}$ 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 if appropriate or puncture and dispose of in a sanitary landfill or by incineration.]

[Greater Than 5 Gallons] [Refillable container. 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 from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system Repeat this rinsing procedure two more times.

[Greater Than 5 Gallons] [Nonrefillable container. **DO NOT** reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ 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. Turn the container over onto its other 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. Dispose of empty container in a sanitary landfill or by incineration.]

[For Bulk and Mini-Bulk Containers] [Refillable container. Refill this container with pesticide only. **DO NOT** use 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 person refilling. To clean container before final disposal, empty the remaining contents from this container 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by State and local authorities.]

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

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. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Sharda USA LLC or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Sharda USA LLC and Seller harmless for any claims relating to such factors.

Sharda USA LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent consistent with applicable law, this warranty does not extend to the use of this product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or Sharda USA LLC and Buyer and User assume the risk of any such use. To the extent consistent with applicable law, SHARDA USA LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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