

WARM-SEASON TURFGRASSES - BERMUDAGRASS TEES AND FAIRWAYS OVERSEEDED IN THE FALL WITH RYEGRASS PERENNIAL - TEXAS

General Information

PRODUCT INFORMATION

XONERATE Herbicide is a selective, postemergence herbicide that may be used for the control of certain weeds in established turfgrasses. It also has preemergence activity on certain weed species at rates of 5.0 to 10.0 oz XONERATE Herbicide/A.

XONERATE Herbicide is formulated as a 70% water dispersible granule (WDG) Herbicide.

XONERATE Herbicide's mode of action is inhibition of photosynthesis at photosystem II.

Apply XONERATE Herbicide either alone, in tank mix combinations with, or sequentially prior to or after additional herbicides. When tank mixing, always observe all precautionary statements and limitations on labeling of all products.

In turf applications, water is the recommended liquid carrier for XONERATE Herbicide.

RESISTANCE MANAGEMENT

For resistance management, XONERATE Herbicide is an Herbicide Resistance Action Committee (HRAC) Group C1 Herbicide, a photosynthesis II inhibitor (Weed Science Society of America (WSSA) Group 5). Any weed population may contain or develop plants naturally resistant to a herbicidal mode of action. Resistant biotypes can eventually dominate the weed population if herbicides with an identical mode of action are used repeatedly on the same site. If this happens, control of resistant biotypes will not occur unless a herbicide with a different mode of action is utilized. Whenever possible, tank mix or rotate the use of XONERATE Herbicide with herbicides that have a different mode of action.

XONERATE Herbicide will not control triazine-resistant (atrazine, simazine,

metribuzin) and diuron-resistant weeds.

Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. The use of XONERATE Herbicide should conform to resistance management strategies established for the use area. Consult with your chemical dealer, consultant, extension turfgrass specialist or agricultural advisor for resistance management strategies for your area.

Read the entire DIRECTIONS FOR USE before using XONERATE Herbicide.

USE RESTRICTIONS

- Do not apply this product using aerial application equipment.
- Do not apply this product if the soil pH is greater than 7.4.
- Do not mix, load or clean spray equipment within 50 feet of any wells or aquatic systems, including marshes, ponds, ditches, streams, lakes, etc.
- Do not apply within 50 feet of well-heads or the above mentioned aquatic systems.
- Do not apply more than 10.25 oz/A (ounces per acre) of XONERATE Herbicide per season.
- Do not apply more than 10.25 oz/A of XONERATE Herbicide per single application.
- Do not allow this chemical to drift onto other crops.
- Do not apply this product through any type of irrigation system.
- Do not use flood irrigation for activation or incorporation of this product.

USE PRECAUTIONS FOR TURF

- Do not apply XONERATE Herbicide where annual bluegrass is maintained as a desirable turf.
- Use on turfgrass species other than those listed in the Cool-Season Turfgrasses and Warm-season Turfgrasses tables may result in unacceptable injury.

- Do not apply XONERATE Herbicide to newly established (within six months) turfgrasses, unless otherwise directed on this label.
- Do not replant any crop to treated areas other than turfgrasses for a period of 12 months after the last application.
- Do not apply when turfgrasses are under stress.
- Allow at least 1 week between last application and overseeding with winter grasses.
- Apply to actively-growing weed populations.
- Does not control perennial broadleaf weeds in turf.

SPRAY DRIFT MANAGEMENT

Spray equipment and weather affect spray drift. Consider all factors when making application decisions. Where states or tribes have more stringent regulations, they must be observed. Avoiding spray drift is the responsibility of the applicator or grower. To reduce the potential for drift, the application equipment must be set to apply medium to coarse droplets (i.e., ASAE Standard 572) with corresponding spray pressure. Use high flow rate nozzles to apply the highest practical spray volume. With most nozzle types, narrow spray angles produce larger droplets. Follow the nozzle manufacturer's directions on pressure, orientation, spray volume, etc., in order to minimize drift and optimize coverage and control.

Equipment

Ground equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

Sprayer Cleanup

To avoid injury or exposure to non-target crops, thoroughly clean all mixing and spray equipment, including pumps, nozzles, lines and screens with a good quality tank cleaner, on an approved rinse pad or on a field site where an approved crop is grown.

SPRAY APPLICATION

Broadcast Treatment

Accurately calibrate the sprayer prior to mixing the herbicide treatments. Apply XONERATE Herbicide and the labeled tank mix partners in a minimum of 20 gal of total spray volume/A using broadcast boom equipment. Power sprayers equipped with a spray wand/gun may also be used for broadcast or spot application.

Application must be made at a sufficient spray pressure and volume to provide accurate and uniform application of spray particles to a given area without causing spray drift to non-target areas. If mixed with other labeled herbicides, the spray volume may be no less than the minimum volume recommended by any tank mix product used or 20 gal, whichever is greater. Use appropriately sized mesh screens and in-line strainers. Agitate thoroughly before and during application with either bypass or mechanical agitation. Rinse the sprayer thoroughly with clean water immediately after each use.

Improper spray pattern overlaps produce areas of over-application and may increase the potential for turf damage.

Spot Treatment

Backpack and compression sprayers may be used 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 may result in uneven spray coverage.

APPLICATION METHODS AND TIMINGS

Apply XONERATE Herbicide postemergence to actively-growing broadleaf and grass weeds.

Do not apply when environmental conditions favoring drift.

XONERATE Herbicide may be tank mixed with herbicides registered for use on turfgrass sites. See tank mix instructions listed under specific turfgrass species for more information.

WEEDS CONTROLLED or SUPPRESSED

Depending on the use rate, XONERATE Herbicide will control or suppress the following broadleaf and grass weeds in turf.

Limitations, Restrictions, and Exceptions

Bermudagrass Tees and Fairways Overseeded in the Fall with Perennial Ryegrass

In early- to mid-spring months XONERATE Herbicide at 3.0 to 4.0 oz/A may be used to control annual bluegrass and certain winter annual broadleaf weeds in bermudagrass overseeded the previous fall with perennial ryegrass. Make a second application of 4.0 oz/A 14 to 21 days after the first application or make up to three applications of 3.0 oz/A at 14 to 21 day intervals. Delay the spring applications until perennial ryegrass is actively-growing and has recovered from winter-induced stress, but no sooner than three months after seeding. Temporary injury to perennial ryegrass may occur for 1 to 2 weeks after application.

To minimize injury, irrigate with 0.1 to 0.25 inch water within 1 to 4 hours after application.

Do not apply XONERATE Herbicide to perennial ryegrass when the daytime air temperature is expected to exceed 90° F. Application of XONERATE Herbicide to perennial ryegrass exhibiting stress from adverse weather, pests, diseases, chemicals, mechanical injury or other related stress factors may increase the potential for unacceptable injury to the ryegrass.

As there are numerous cultivars of perennial ryegrass as well as a wide range of clipping heights, end users are advised to determine perennial ryegrass tolerance on a small trial area on their site. Observe trial areas for two to three weeks after application. If injury is not considered adverse, then the remaining turf area may be treated. Do not apply XONERATE Herbicide to emerged *Poa trivialis* unless the objective is to suppress or remove it.

Method

[Broadcast/Foliar Ground](#)

[Spot treatment](#)

Rates

[field rates 0](#)

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Restricted Entry Interval

12 hours

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

Timings

[In early- to mid-spring months.](#)