



## TECHNICAL INFORMATION BULLETIN

### XONERATE<sup>®</sup> HERBICIDE

EPA Reg. No. 66330-46

#### **FIFRA Section 2(ee) Recommendation**

This recommendation is made as permitted by Section 2(ee) of FIFRA and has not been submitted to or approved by the U.S. Environmental Protection Agency

**FOR DISTRIBUTION AND USE ONLY WITHIN THE STATE OF: Texas**

**Use of XONERATE Herbicide on Warm-Season Turfgrasses**

#### **DIRECTIONS FOR USE**

Use information in accordance with Section 2(ee) of FIFRA.

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read and follow all applicable directions for use, precautions and limitations on the product label attached to the container for **XONERATE Herbicide**.

**Annual bluegrass and broadleaf weed control in established bahiagrass, bermudagrass, buffalograss, centipedegrass, kikuyugrass, seashore paspalum, St. Augustinegrass and zoysiagrass.**

**XONERATE Herbicide** may be applied postemergence to tolerant warm-season turf at rates of 3.0 to 10.0 oz/A. (Follow specific instructions provided below for each turfgrass species.) **XONERATE Herbicide** may be applied to warm-season turfgrasses that are dormant, partially dormant or actively-growing. When using low rates (3.0 to 5.0 oz/A) of **XONERATE Herbicide**, repeat applications are recommended. Do not exceed the maximum rate 10.0 oz /A of **XONERATE Herbicide** per season. Repeat applications should be made 14 to 21 days after the initial application.

**NOTE:** Do not apply **XONERATE Herbicide** to St. Augustinegrass in the summer months when air temperatures are greater than 90°F. **Do not apply to turf under moisture stress. If necessary, irrigate before application to eliminate moisture stress.**

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

**XONERATE Herbicide** can be tank mixed with labeled herbicides that contain metsulfuron, 2,4-D, dicamba or mixtures of 2,4-D, MCPP, clopyralid, dicamba, fluroxypyr, or triclopyr to enhance control of emerged broadleaf weeds. If sedge species are present on the site, **XONERATE Herbicide** can be tank mixed with herbicides labeled for control of sedges. Consult the tank mix partner label for turfgrass species tolerance, weeds controlled and maximum weed sizes at applications. Follow the most restrictive labeled timing between **XONERATE Herbicide** and any tank mix partner.

**XONERATE Herbicide** may also be tank mixed with preemergence herbicides for residual control of crabgrass species and other summer annual weeds.

## **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.

For control of *Poa annua* in late spring and to aid in transition of perennial ryegrass to Bermudagrass make one application at 6.0-10.0 oz/A of **XONERATE Herbicide**.

Applications of **XONERATE Herbicide** to perennial ryegrass that have received an application of products that contain mefluidide within the previous 3 months may experience severe injury or complete removal of the ryegrass.

**XONERATE Herbicide** may be tank mixed with various recommended herbicides such as 2,4-D, MCPP, dicamba or two and three-way herbicides that contain mixtures of 2,4-D, MCPP, clopyralid, dicamba, fluroxypyr, or triclopyr to enhance control of emerged broadleaf weeds.

**XONERATE Herbicide** may be applied at 5.0 to 10.0 oz/A one or more weeks before overseeding bermudagrass with either perennial ryegrass or *Poa trivialis* for control of emerged *Poa annua*. Short term preemergence control of crabgrass may be observed following this application.

## **TROPICAL SIGNALGRASS CONTROL**

### **Spring and Fall Applications**

Apply **XONERATE Herbicide** at 7.0-10.0 oz/A, starting when tropical signalgrass starts actively growing. Alternatively, make two sequential applications at 14 day intervals of 5.0 oz/A **XONERATE Herbicide** as a tank mix with Tribute Total (3.2 fl oz/A), Dismiss South (7.2 fl oz/A), Revolver (26 fl oz/A) or Celsius (3.7 fl oz/A).

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