



**MAKHTESHIM**  
**A G A N**  
 NORTH AMERICA

**GALIGAN 2E HERBICIDE**  
**EPA REG. NO. 66222-28**  
**GRASSES GROWN FOR SEED**  
**IN THE STATE OF OREGON**  
**EPA SLN NO. OR-010028**

**SUPPLEMENTAL LABELING INFORMATION FOR DISTRIBUTION AND USE ONLY  
 IN THE STATE OF OREGON**

This label is valid until December 31, 2009 or until otherwise amended, withdrawn, cancelled, or suspended.

<b>ACTIVE INGREDIENT</b>	<b>% BY WT.</b>
Oxyfluorfen: 2-chloro-1-(3-ethoxy-4-nitrophenoxy)-4-(trifluoromethyl) benzene*	22.2%
<b>INERT INGREDIENTS:</b>	<u>77.8%</u>
	<b>TOTAL 100.0%</b>

Contains petroleum distillate.  
 \*Equivalent to 2 lbs. active ingredient per gallon.  
**SHAKE WELL BEFORE USING**

**ENVIRONMENTAL HAZARDS**

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. This product is highly toxic to aquatic invertebrates, aquatic plants, wildlife, and fish. Use with care when applying in areas frequented by wildlife or adjacent to any body of water or wetland area. Do not apply when weather conditions favor drift or erosion from target areas.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation

Follow all applicable directions, restrictions, and precautions on this Supplemental label and the main EPA-registered label. It is a violation of federal law to use this product in a manner inconsistent with its labeling.

This label and the federal label for this product must be in the possession of the user at the time of pesticide application.

**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 24 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:

- Protective eyewear
- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves, such as barrier laminate or Viton  $\geq$  14 mils
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure

**NOTICE:** Before using this product, read the entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, Use Restrictions, and Storage and Disposal instructions. If the Conditions of Sale and Warranty are not acceptable, return the product unopened within thirty days of purchase to the place of purchase.

This supplemental label and the labeling supplied with the container must be in the possession of the user at the time of application.

### GENERAL INFORMATION

Galigan 2E herbicide is recommended for late preemergence through early postemergence control of annual broadleaf weeds, annual grasses, and the seedling stage of perennial grasses, including volunteer crops, in established perennial grasses grown for seed. A minimum of 12 months of good growing conditions is required from the time of planting new stands of perennial grasses or until the perennial grasses are sufficiently well established (a minimum of 6 tillers or more) to be treated with Galigan herbicide.

**Note:** *Due to the close proximity of native prairie remnants to agricultural areas and the potential for these areas to be adversely affected by herbicides through drift or possible runoff/soil movement, it is recommended that Galigan herbicide not be applied directly to native prairie habitats. It is recommended that dosage rates be maintained at the lower end of the use rate range (if effective seedling control can be achieved) in a further effort to lessen potential impacts to endangered species.*

### DOSAGE

Galigan 2E is recommended at the following rates (by crop):

#### **Kentucky bluegrass, tall fescue, orchardgrass, bentgrass, perennial ryegrass:**

Apply an initial application of Galigan 2E at a rate of 8 to 24 ounces (0.125 to 0.375 lb. ai) per acre. Do not apply more than 24 ounces of Galigan 2E herbicide per acre as a result of two applications in a single growing season. The initial application should be applied before the weed (or grass) seedlings to be controlled exceed the two-leaf growth stage (typically prior to December 15). A second application may be required for optimal control/suppression.

For increased control of volunteer ryegrass seedlings in perennial ryegrass, do not apply more than 1.2 lb. active of diuron per acre in tank mixtures with Galigan 2E per season.

#### **Fine fescues (Chewings, creeping red, and hard types):**

Apply a single application of Galigan 2E at 8 ounces (0.12 lb. ai) per acre per season. The application should be applied before the weed seedlings to be controlled exceed the two-leaf growth stage. **(Use Period: September 1 to December 15.)**

### SURFACTANT

Latron® AG-98 (or comparable 80 percent active nonionic surfactant cleared for application to growing crops) may be added at a rate of 0.12 to 0.5 percent spray volume for improved control of emerged seedlings.

### CROP TOLERANCE

The application of Galigan 2E herbicide to established perennial grasses will result in a chlorosis (yellowing) of the vegetation within two weeks after treatment. Some crop response symptoms may be present for up to three months following application. The use of Galigan 2E herbicide may also result in a substantial reduction in vegetative growth by perennial grasses during the winter. Leaf chlorosis and reduction of vegetative growth is a typical and normal response and seed yield of healthy, vigorous perennial grasses is typically not affected by fall application of Galigan 2E herbicide. It is accepted by the grower that conditions under which seed yield may be reduced are not fully understood and that a reduction in seed yield may occur. **DO NOT GRAZE FIELDS THAT HAVE BEEN TREATED WITH GALIGAN 2E HERBICIDE AS ILLEGAL RESIDUES MAY BE PRESENT IN THE VEGETATIVE FORAGE.** Grazing may also magnify crop injury and reduce the seed yield.

Crop tolerance to Galigan 2E herbicide can be improved by limiting the amount of leaf tissue present on the established perennial grasses at time of application by such methods as propane flaming, intensive mechanical clipping (crew cutting), prior livestock grazing, or open field burning.

### WEEDS SUPPRESSED AND/OR CONTROLLED

Galigan 2E herbicide will provide control or suppression of the following weeds and volunteer crops when applied between the onset of germination and the two-leaf seedling growth stage:

COMMON NAME	SCIENTIFIC NAME
BENTGRASS	<i>Agrostis</i> species
BLUEGRASS, ANNUAL	<i>Poa annua</i>

BLUEGRASS, KENTUCKY	<i>Poa pratensis</i>
BLUEGRASS, ROUGHSTALK	<i>Poa trivialis</i>
BROME, CALIFORNIA (mountain)*	<i>Bromus carinatus</i>
FESCUE, FINE (creeping red and Chewings)	<i>Festuca rubra</i>
FESCUE, HARD	<i>Festuca longifolia</i>
FESCUE, RATTAILED	<i>Vulpia myuros</i>
FESCUE, TALL	<i>Festuca arundinacea</i>
ORCHARDGRASS	<i>Dactylis glomerata</i>
RYEGRASS, ITALIAN	<i>Lolium multiflorum</i>
RYEGRASS, PERENNIAL*	<i>Lolium perenne</i>

\*These species are suppressed but not fully controlled by Galigan 2E herbicide.

Galigan 2E herbicide will also control or suppress many annual broadleaf weeds.

Early treatment is important for control of seedling grasses. Applications of Galigan 2E at the onset of grass seed germination during the initial fall rains (late preemergence) or at the one-leaf growth stage (early postemergence) may provide somewhat better control of volunteer crop seedlings than applications at the two-leaf stage. Ample soil moisture soon after application is required for optimum performance against seedling grasses.

Applications to seedling grasses between the two- and six-leaf stage may result in partial control, varying with species. Single applications made to seedlings between the two- and six-leaf growth stages will cause injury and stunting, but regrowth will generally occur. If seedlings have not died within three to four weeks after treatment with Galigan 2E herbicide and healthy green regrowth is visible, a second application may be needed.

Galigan 2E herbicide will not control established perennial grasses or seedlings of most annual and perennial grasses beyond the six-leaf stage.

Tank mixtures of Galigan 2E with other registered herbicides may result in enhanced crop injury. If a tank mixture is to be applied, applications should be made only to healthy, vigorous stands of perennial grasses. The decision to apply a tank mixture containing Galigan herbicide is at the sole discretion of the grower and at the grower's risk.

#### **METHOD OF APPLICATION**

Apply as a broadcast application in a minimum spray volume of 20 gallons of water per acre. Use conventional ground spray equipment with flat fan spray nozzles at a minimum spray pressure of 30 psi. Do not exceed maximum spray pressure of 60 psi. Spray equipment should be calibrated carefully before each use.

#### **MIXING DIRECTIONS**

Fill the spray tank at least one-third full of clean water. With the pump and agitator running, add the recommended amount of herbicide to the spray tank. The order of addition to the spray tank should be wettable powders first, flowables second, and liquids last. Complete filling of the spray tank with water. The use of Latron AG-98 (or comparable 80 percent active nonionic surfactant cleared for application to growing crops) may be added at the rate of 0.12 to 0.5 percent spray volume for improved control of emerged seedlings. Maintain agitation until spraying is complete.

#### **SPECIFIC USE RESTRICTIONS**

The following use restrictions must be observed when Galigan 2E herbicide is used as recommended on this label:

- Follow the General Use Restrictions on the EPA-registered label.
- Do not graze livestock in treated fields within 150 days of application.
- Do not apply Galigan herbicide within 150 days of harvest.
- Galigan 2E herbicide should be applied only by ground application equipment.

**Chemigation:** Do not apply this product through any type of irrigation system.

#### **WARRANTY STATEMENT**

MAKHTESHIM-AGAN OF NORTH AMERICA warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with

directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of MAKHTESHIM-AGAN OF NORTH AMERICA. In no case shall MAKHTESHIM-AGAN OF NORTH AMERICA be liable for consequential, special, or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. In addition to the foregoing, no purchaser of this product (other than an end user) shall be entitled to any reimbursement for any loss suffered as a result of any suspension or cancellation of the registration for this product by the U.S. Environmental Protection Agency. Except as expressly provided herein, MAKHTESHIM-AGAN OF NORTH AMERICA makes no warranties, guarantees, or representations of any kind, either expressed or implied, or by usage of trade, statutory or otherwise, with regard to the product sold, including, but not limited to merchantability, fitness for a particular purpose, use or eligibility of the product for any particular trade usage. The exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damages resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall be damages not exceeding the purchase price paid for this product or, at MAKHTESHIM-AGAN OF NORTH AMERICA's election, the replacement of this product.

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