



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Mr. Bill Washburn  
Arysta LifeScience North America, LLC  
15401 Weston Parkway, Suite 150  
Cary, NC 27513

SEP 8 2009

Subject: Label Notification(s) for Pesticide Registration Notice 2007-4 and 98-10

Dear Registrant:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 and 98-10 dated May 14, 2009 for:

**EPA Registration 66330-326**

**Sulfometuron 75EG**

The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and 98-10 and finds that the label change(s) requested falls within the scope of PRN-2007-4 and 98-10. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Banza Djapao of my staff at 703-305-7269.

Sincerely,



Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs

20725

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 05-31-98



**EPA**

United States  
**Environmental Protection Agency**  
Washington, DC 20460

☐ Registration  
☐ Amendment  
☒ Other:

OPP Identifier Number

**Application for Pesticide - Section I**

1. Company/Product Number <b>66330-326</b>	2. EPA Product Manager <b>Jim Tompkins</b>	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) <b>Sulfometuron 75EG</b>	PM# <b>25</b>	
5. Name and Address of Applicant (Include ZIP Code)  <b>Arysta LifeScience North America, LLC</b> <b>15401 Weston Parkway, Suite 150</b> <b>Cary, NC 27513</b>  <input type="checkbox"/> Check if this is a new address		6. <b>Expedited Review.</b> In accordance with FIFRA Section 3(c)(3) (b)(I), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____

**Section - II**

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below

**NOTIFICATION**

**SEP - 8 2009**

**Explanation:** Use additional page(s) if necessary. (For Section I and Section II.)

**Notification of label change per PR Notice 2007-4.** This notification is consistent with guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 USC Sec 1001 to willfully make any false statement to EPA. I further understand that if the amendment is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

**Notification of label change per PR Notice 98-10.** This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 USC Sec 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

**Section - III**

1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Unit Packaging wgt.      No. per container	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Package wgt.      No. per container	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify)
*Certification must be submitted			
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) Retail Container <b>1.0 lb., 3.0 lb., 5 lb., and 10 lb.</b>	5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)			
Name <b>Bill Washburn</b>		Title <b>Regulatory Manager</b>	
		Telephone No. (Include Area Code) <b>901-432-5118</b>	
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete? I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			
2. Signature <i>Bill Washburn</i>		3. Title <b>Regulatory Manager</b>	
4. Typed Name <b>Bill Washburn</b>		5. Date <b>14 May 2009</b>	
6. Date Application Received (Stamped)			



May 14, 2009

Mr. Jim Tompkins  
Product Management Team (25)  
Office of Pesticide Programs (7504P)  
Document Processing Desk (NOTIF)  
U.S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 S. Crystal Drive  
Arlington, VA 22202

**Subject: Sulfometuron 75 EG  
EPA Reg. No. 66330-326**

**Notification of Label Change per PR Notice 2007-4  
and PR Notice 98-10**

Dear Mr. Tompkins:

Please find the following enclosed:

- Application for Pesticide Registration (Other) dated 05/14/09.
- One highlighted copy of subject label, showing all changes.
- One clean copy of the subject label.

Notification of label change per PR Notice 2007-4. This notification is consistent with guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 USC Sec 1001 to willfully make any false statement to EPA. I further understand that if the amendment is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

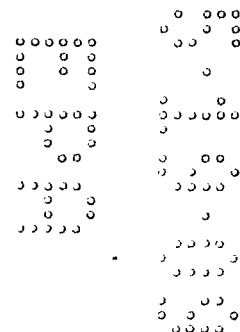
Also in this submission, we are using PR Notice 98-10 to update the name of the company, emergency telephone numbers and warranty. Arysta LifeScience North America Corporation was changed to Arysta LifeScience North America, LLC.

Should you have any questions or comments, please do not hesitate to contact me at 901-432-5118 or by e-mail at [bill.washburn@arystalifescience.com](mailto:bill.washburn@arystalifescience.com)

Sincerely,

*Bill Washburn*

Bill Washburn  
Regulatory Manager



40f25

**SULFOMETURON 75EG**  
Herbicide

Dispersible Granules

**NOTIFICATION**

**SEP - 8 2009**

**ACTIVE INGREDIENT:**

Sulfometuron methyl

{Methyl 2-[[[(4,6-dimethyl-2-pyrimidinyl) amino]-carbonyl] amino] sulfonyl] benzoate} ..... 75.0%

**OTHER INGREDIENTS:** ..... 25.0%

**TOTAL** ..... 100.0%

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**FIRST AID**

**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 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 the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

**EMERGENCY TELEPHONE NUMBERS:** Have the product container or label with you when calling a poison control center or doctor or going for treatment.

**FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL:** 1-866-303-6952

**FOR CHEMICAL EMERGENCY:** Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300

**EPA Reg. No. 66330-326**

**AD 121504**

**NET CONTENTS:**

**EPA Est. No. XXXX-XX-XXXX**

**Manufactured For:**  
**Arysta LifeScience North America, LLC**  
**15401 Weston Parkway, Suite 150**  
**Cary, NC 27513**

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## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION! Causes (moderate) eye injury (irritation). Avoid contact with eyes or clothing.

### PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

1. Long-sleeved shirt and long pants.
2. 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.

### USER SAFETY RECOMMENDATIONS

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

### ENVIRONMENTAL HAZARDS

**DO NOT** apply directly to water, or 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.

### GENERAL INFORMATION

SULFOMETURON 75EG is a dispersible granule that is mixed in water and applied as a spray. SULFOMETURON 75EG controls many annual and perennial grasses and broadleaf weeds in forestry and noncrop sites.

SULFOMETURON 75EG may be used for general weed control on industrial noncrop sites and for selective weed control in certain types of unimproved turf grasses on industrial sites. It can also be used for selective weed control in forest site preparation and in the release of several types of pines and certain hardwoods.

SULFOMETURON 75EG controls weeds by both preemergence and postemergence activity. Preemergence treatments control or suppress weeds through root uptake while postemergence control works through root and foliar uptake. The best results are obtained when the application is made before or during the early stages of weed growth before weeds develop an established root system. Moisture is required to move SULFOMETURON 75EG into the root zone of weeds for preemergence control. When rainfall is low, SULFOMETURON 75EG may not provide satisfactory control.

It is noncorrosive, nonflammable, nonvolatile, and does not freeze.

For best postemergence results, apply SULFOMETURON 75EG to young, actively growing weeds. The use rate depends upon the weed species, weed size at application, and soil texture. The degree and duration of control may depend on the following:

- weed spectrum and infestation intensity
- weed size at application

- environmental conditions at and following treatment
- soil pH, soil moisture, and soil organic matter

Use a high rate on established plants and on fine-textured soils and a lower rate on smaller weeds and coarse-textured soils.

#### ENVIRONMENTAL CONDITIONS AND BIOLOGICAL ACTIVITY

SULFOMETURON 75EG is absorbed by both the roots and foliage of plants, rapidly inhibiting the growth of susceptible weeds. Two to 3 weeks after application to weeds, leaf growth slows, and the growing points turn reddish-purple. Within 4 to 6 weeks of application, leaf veins and leaves become discolored, and the growing points subsequently die.

Warm, moist conditions following application accelerate the herbicidal activity of SULFOMETURON 75EG; cold, dry conditions delay the herbicidal activity. In addition, weeds hardened-off by drought stress are less susceptible to SULFOMETURON 75EG.

Rainfall is needed to move SULFOMETURON 75EG into the soil for preemergence weed control, but postemergence weed control may be reduced if rainfall occurs too soon after application.

#### RESISTANCE

When herbicides with the same mode of action are used repeatedly over several years to control the same weed species in the same field, naturally-occurring resistant weed biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. These resistant weed biotypes may not be adequately controlled. Cultural practices such as tillage, preventing weed escapes from going to seed, and using herbicides with different modes of action within and between crop seasons can aid in delaying the proliferation and possible dominance of herbicide resistant weed biotypes.

#### DIRECTIONS FOR USE

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

SULFOMETURON 75EG should be used only in accordance with recommendations on this label or in separately published MICRO FLO Company LLC (MICRO FLO) recommendations.

MICRO FLO will not be responsible for losses or damages resulting from the use of this product in any manner not specifically recommended by MICRO FLO. User assumes all risks associated with such non-recommended use.

Do not use on food or feed crops.

Do not apply more than 8 ounces per acre per year.

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 in your State responsible for pesticide regulation.

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## AGRICULTURAL USES

### 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 4 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.
- Chemical resistant gloves made of any waterproof material.
- Shoes plus socks.

## FORESTRY

SULFOMETURON 75EG may be applied by helicopter or ground equipment to control many broadleaf weeds and grasses on forestry sites. Impregnated fertilizer may also be applied by fixed-wing aircraft. Sulfometuron 75EG is recommended for site preparation and herbaceous weed control after planting for both conifers and hardwoods (broadleaf deciduous species). Tank mixes with other forestry herbicides are permissible but always follow the most restrictive label. Make applications before or soon after weeds emerge unless tank mixing with a product that will control established weeds. Use lower recommended rates on coarse-textured soils (i.e., loamy sands, sandy loams) and higher recommended rates on fine-textured soils (i.e. sandy clay loams and silty clay loams).

## WEEDS CONTROLLED

Weed species controlled by SULFOMETURON 75EG when applied at the use rates indicated:

Common Name	Scientific Name
Chickweed	<i>Stellaria</i> spp.
Crabgrass	<i>Digitaria</i> spp.
Dogfennel	<i>Eupatorium capillifolium</i>
Fescue	<i>Festuca</i> spp.
Fireweed (willowweed)	<i>Epilobium</i> spp.
Goldenrod	<i>Solidago</i> spp.
Horseweed	<i>Conyza canadensis</i>
Kentucky bluegrass	<i>Poa pratensis</i>
Nutsedge (yellow)	<i>Cyperus esculentus</i>
Panicums	
Broadleaf	<i>Panicum adspersum</i>
Fall	<i>Panicum dichotomiflorum</i>
Pokeweed	<i>Pytholacca americana</i>
Ragweed	<i>Ambrosia</i> spp.
Shepherd's purse	<i>Capsella bursa-pastoris</i>
White snakeroot	<i>Eupatorium rugosum</i>
Yellow sweetclover	<i>Melilotus officinalis</i>

See also weeds controlled under non-agricultural uses.

#### SITE PREPARATION PRIOR TO PLANTING CONIFERS

Use rates and planting restrictions:

Region and Crop Species	Rate (oz/A)	Planting Restriction
<b>Southeast</b>		
Loblolly pine ( <i>Pinus taeda</i> )	2 to 8	Plant in the planting season after treatment
Longleaf pine ( <i>Pinus palustris</i> )	2 to 8	Plant in the planting season after treatment
Slash pine ( <i>Pinus elliotti</i> )	2 to 8	Plant in the planting season after treatment
Virginia pine ( <i>Pinus virginiana</i> )	2 to 8	Plant in the planting season after treatment
<b>Northeast and Lake States</b>		
Black spruce ( <i>Picea mariana</i> )	2 to 4	Plant not less than 13 months after treatment
Red pine ( <i>Pinus resinosa</i> )	0.5 to 2	Plant the following spring or summer but for 1 to 2 oz plant not less than 3 months after treatment and for 0.5 to 1 oz plant no less than 30 days after treatment
Larch ( <i>Larix spp.</i> )	2.5 to 4	Plant the following spring or summer but not less than 8 months after treatment
Tamarack ( <i>Larix laricina</i> )	2.5 to 4	Plant the following spring or summer but not less than 8 months after treatment
<b>West</b>		
Coastal redwood ( <i>Sequoia sempervirens</i> )	2 to 4	
Douglas-fir ( <i>Pseudotsuga menziesii</i> )	2 to 4	
Grand fir ( <i>Abies grandis</i> )	2 to 4	
Hemlock ( <i>Tsuga spp.</i> )	2 to 4	
Lodgepole pine ( <i>Pinus contorta</i> )	2 to 4	
Ponderosa pine ( <i>Pinus ponderosa</i> )	2 to 4	In California and other arid areas, apply in fall and transplant the following spring
Western larch ( <i>Larix occidentalis</i> )	2 to 4	
Western white pine ( <i>Pinus monticola</i> )	2 to 4	
White fir ( <i>Abies concolor</i> )	2 to 4	
Western red cedar ( <i>Thuja plicata</i> )	2 to 3	

Tank mixes with other forestry site preparation herbicides such as Arsenal®, Chopper®, OneStep® and glyphosate are permissible. Observe all precautions and restrictions on the product labels. Always follow the most restrictive label.

If the user has experience indicating that conifer species other than those listed in the above table can be successfully established in areas treated with SULFOMETURON 75EG, these species may be planted. The user accepts all responsibility for injury on any conifer species not listed in the above table.

**HERBACEOUS WEED CONTROL AFTER CONIFERS ARE PLANTED**

Use rates and restrictions:

Region and Crop Species	Rate (oz/A)	Restriction
<b>Southeast</b>		
Loblolly pine ( <i>Pinus taeda</i> )	2 to 8	
Longleaf pine ( <i>Pinus palustris</i> )	2 to 8	
Slash pine ( <i>Pinus ellioti</i> )	2 to 8	
Virginia pine ( <i>Pinus virginiana</i> )	2 to 8	
Eastern white pine ( <i>Pinus strobus</i> )	1 to 1.5	
<b>Northeast and Lake States</b>		
Jack pine ( <i>Pinus banksiana</i> )	2 to 8	Treat prior to budbreak when trees are dormant and do not apply less than 1 year after transplanting or planting.
Virginia pine ( <i>Pinus virginiana</i> )	2 to 8	Treat prior to budbreak when trees are dormant and do not apply less than 1 year after transplanting or planting.
Eastern white pine ( <i>Pinus strobus</i> )	1 to 1.5	Treat prior to budbreak when trees are dormant and do not apply less than 1 year after transplanting or planting.
White spruce ( <i>Picea glauca</i> )	1.5 to 3	Treat prior to budbreak when trees are dormant and do not apply less than 1 year after transplanting or planting.
Red pine ( <i>Pinus resinosa</i> )	0.5 to 2	Treat prior to budbreak when trees are dormant and do not apply less than 1 year after transplanting or planting.
<b>West</b>		
Coastal redwood ( <i>Sequoia sempervirens</i> )	2 to 4	
Douglas-fir ( <i>Pseudotsuga menziesii</i> )	2 to 4	
Grand fir ( <i>Abies grandis</i> )	2 to 4	
Hemlock ( <i>Tsuga</i> spp.)	2 to 4	
Lodgepole pine ( <i>Pinus contorta</i> )	2 to 4	
Ponderosa pine ( <i>Pinus ponderosa</i> )	2 to 4	In California and other arid areas apply on dormant seedlings in the spring following fall planting or in the fall following spring planting
Western larch ( <i>Larix occidentalis</i> )	2 to 4	
Western white pine ( <i>Pinus monticola</i> )	2 to 4	
White fir ( <i>Abies concolor</i> )	2 to 4	
Western red cedar ( <i>Thuja plicata</i> )	2 to 3	

When conifers are dormant they are less susceptible to injury. When the spray directly contacts the foliage during the period from bud break in the spring to hardening of the final resting bud in the fall, severe injury or mortality is possible.

**ARSENAL® Applicators Concentrate plus SULFOMETURON 75EG Tank Mix**

In loblolly pine apply 4 to 6 oz Arsenal Applicators Concentrate herbicide plus 1-2 oz SULFOMETURON 75EG. The application of Arsenal Applicators Concentrate plus SULFOMETURON 75EG on other conifer species may cause growth suppression.

**VELPAR® plus SULFOMETURON 75EG Tank Mix**

In loblolly, longleaf or slash pine, apply 2 to 4 oz of SULFOMETURON 75EG plus 2 to 3 pints of Velpar L herbicide or 2/3 to 1 lb of Velpar DF herbicide. Treatment with these tank mixes during periods of high humidity and high temperature may injure or kill trees.

**AATREX® 4L plus SULFOMETURON 75EG Tank Mix**

On tree species specifically listed on both the Aatrex 4L and SULFOMETURON 75EG labels apply 4 to 8 pints of Aatrex 4L plus 2 to 4 oz SULFOMETURON 75EG. Use the higher rates on medium to fine textured soils where organic matter exceeds 2%.

If the user has experience indicating that conifer species other than those listed in the above table can be successfully treated with SULFOMETURON 75EG, these species may be treated. The user accepts all responsibility for injury on any conifer species not listed in the above table.

**FERTILIZER IMPREGNATION**

Dry bulk fertilizer may be impregnated with SULFOMETURON 75EG and applied to loblolly and slash pine sites. Uniform impregnation and application of dry fertilization is required to avoid tree injury or mortality and poor weed control. To impregnate fertilizer use a conveyor or closed drum system. If fertilizer is very dusty use a suitable additive to reduce dust prior to impregnation. Use the SULFOMETURON 75EG rates recommended above for loblolly and slash pine. Apply this rate to the amount of fertilizer to be used per acre. First mix the SULFOMETURON 75EG with sufficient water to uniformly coat the fertilizer. Thorough agitation is required. Use fine spray nozzles to uniformly cover the fertilizer. An absorptive additive such as Microcel E (Johns Manville Product Company) or HiSil – 233 (Pittsburg Plate Glass) may be required to produce a dry, free flowing mixture. Apply impregnated fertilizer as soon as possible after impregnation since impregnated fertilizer may become lumpy or difficult to apply following storage. Application may be made by ground or by helicopter or fixed winged aircraft. Overlaps, skips or other factors resulting in non-uniform distribution of impregnated fertilizer will result in poor weed control and may cause tree injury or mortality.

Fertilizers that have been successfully used include diammonium phosphate, potassium chloride, 16-16-16 and 24-4-4. Fertilizers that are not compatible with SULFOMETURON 75EG include potassium nitrate, sodium nitrate and triple super phosphate. Do not impregnate SULFOMETURON 75EG on limestone.

Clean equipment used to impregnate, transport and apply fertilizer following the instructions under sprayer cleanup. Do not use this equipment to make subsequent applications to crops.

**SITE PREPARATION PRIOR TO PLANTING HARDWOODS**

Use rates:

Crop Species	Rate (oz/A)
Northern red oak ( <i>Quercus rubra</i> )	3 to 5
White oak ( <i>Quercus alba</i> )	3 to 5
Chestnut oak ( <i>Quercus prinus</i> )	3 to 5
American sycamore ( <i>Platanus occidentalis</i> )	3 to 5
White ash ( <i>Fraxinus americana</i> )	3 to 5
Green ash ( <i>Fraxinus pennsylvanica</i> )	3 to 5
Red maple ( <i>Acer rubrum</i> )	3 to 5
Sweetgum ( <i>Liquidambar styraciflua</i> )	3 to 5
Yellow poplar ( <i>Liriodendron tulipifera</i> )	3 to 5

**HERBACEOUS WEED CONTROL AFTER HARDWOODS HAVE BEEN PLANTING**

Use rates:

Crop Species	Rate (oz/A)
American sycamore ( <i>Platanus occidentalis</i> )	1 to 4
White ash ( <i>Fraxinus americana</i> )	1 to 4
Green ash ( <i>Fraxinus pennsylvanica</i> )	1 to 4
Bald cypress ( <i>Taxodium distichum</i> )	1 to 4
Oaks ( <i>Quercus</i> spp.)	1 to 4
Red maple ( <i>Acer rubrum</i> )	1 to 4
Sweetgum ( <i>Liquidambar styraciflua</i> )	1 to 4
Yellow poplar ( <i>Liriodendron tulipifera</i> )	1 to 4

Treat dormant trees before bud swell. Applications made over the top after the trees have broken dormancy may injure or kill the trees.

**HYBRID POPLAR**

SULFOMETURON 75EG may be used for site preparation or herbaceous weed after planting for hybrid poplar growing west of the Cascade Mountains or for herbaceous weed control after planting in the Lake States. SULFOMETURON 75EG must be activated by overhead irrigation or rainfall before weeds become well established. Crop trees may exhibit temporary chlorosis (yellowing) or a small reduction in tree height during the year of use. Different clonal lines may vary in there tolerance to SULFOMETURON 75EG. Therefore, limit the first use on new clones to a small area. To avoid injury when treating after planting, treat when trees are dormant and do not allow the spray to contact green buds or tissue.

**West of the Cascades**

For site preparation prior to planting use 1 to 1.25 oz per acre when heavy weed infestations are expected or when maximum weed control is desired. Use 0.5 to 0.75 oz when light weed infestations are expected or when small diameter cuttings will be planted. Do not plant less than 3 days after treatment. Herbaceous weed control treatments may be made after hybrid poplar has been established for a minimum of 1 year. Use 1 to 1.25 oz per acre when heavy weed infestations are expected or when maximum weed control is desired. Use 0.5 to 0.75 oz when light weed infestations are expected or when small diameter were planted.

**Lake States**

Herbaceous weed control treatments may be made after hybrid poplar has been established for a minimum of 1 year. Use a rate of 1 to 2 oz per acre in the fall or early winter or 1 oz per acre in the late winter or early spring.

**NATURAL HARDWOOD REGENERATION**

SULFOMETURON 75EG may be used at a rate of 2 to 5 oz per acre to control herbaceous weeds on commercial reforestation areas where hardwood seedling regeneration is desired. For control of striped maple or beech, tank mix with glyphosate at a rate of 1 to 2 qts per acre (rate based on a glyphosate formulation containing 4 lb active ingredient per gallon). Best results are achieved when applications are made from late summer to mid-fall. Hardwood seedlings present at the time of application may be severely injured or killed.

**ADDITIONAL IMPORTANT PRECAUTIONS FOR FORESTRY APPLICATIONS**

- Applications after planting should only occur after adequate rainfall has closed the planting slit and settled the soil around the roots.
- Do not use on Christmas trees or ornamentals.
- Injury or death of trees is possible under the following situations:
  - When applications are made to trees that are under stress from drought, diseases, animal or insect injury, winter injury, excessive soil moisture, planting shock, or other stresses that reduce vigour.
  - When used on hardwood trees growing in soils having a pH of 7 or greater.
  - When used on hardwood species that are not well matched to the site. An experienced forester should match hardwood species to the site.
  - When species other than those listed in the preceding recommendation are present on the site.
  - When the spray from applications made with a surfactant contacts trees. The user assumes all responsibility for tree injury or mortality if a surfactant is used.

**NON-AGRICULTURAL USES****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, forests, nurseries, or greenhouses.

Do not enter or allow others to enter the treated area until sprays have dried.

Selective non-crop industrial weed control and weed control in turf (industrial, unimproved only) are not within the scope of the Worker Protection Standard.

SULFOMETURON 75EG herbicide should be mixed with water and an adjuvant and applied as a spray solution to provide weed control and/or turf height suppression on noncropland areas. Examples of noncropland areas include, but are not limited to railroad, utility, pipeline and highway rights-of-way, railroad crossings, utility plant sites, petroleum tank farms, pumping installations, non-agricultural fence rows, storage areas, non-irrigation ditchbanks, prairie sites, airports, industrial turf, governmental, private lands, non-residential turf fuel storage areas, and lumberyards. SULFOMETURON 75EG herbicide may be used for the release and/or suppression of bermudagrass, bahiagrass, smooth brome grass, and crested wheatgrass. Avoid applications to recreational areas and areas where the surface is paved.

SULFOMETURON 75EG herbicide is readily absorbed through leaves, stems, and roots and is translocated rapidly throughout the plant, with accumulation in the meristematic regions. Treated plants stop growing soon after spray application. Chlorosis appears first in the newest leaves, and necrosis spreads from this point. In perennials, the herbicide is translocated into, and kills, underground storage organs which prevents regrowth. Chlorosis and tissue necrosis may not be apparent in some plant species for several weeks after application. Complete kill of plants may not occur for several weeks after application. Adequate soil moisture is important for optimum SULFOMETURON 75EG herbicide activity. When adequate soil moisture is present, SULFOMETURON 75EG herbicide will provide residual control of susceptible germinating weeds. Activity on established weeds will depend on the weed species and rooting depth.

### APPLICATIONS IN ARID REGIONS (Less than 20" Annual Rainfall)

Apply SULFOMETURON 75EG during the rainy or wet season at time when moisture is present and when the target vegetation is actively growing. Applications to target vegetation in times of drought stress may reduce performance of SULFOMETURON 75EG. Always use a surfactant when making post emergent applications (See Spray Adjuvants sections).

#### WEEDS CONTROLLED

Common Name	Genus Species	Rate per Acre (weight oz)
Annual bluegrass (6" to 12" tall)	<i>Poa annua</i>	1.3 to 2
Annual sowthistle	<i>Sonchus oleraceus</i>	1.3 to 2
Barnyardgrass (6" to 12" tall)	<i>Echinochloa crus-galli</i>	1.3 to 2
Black Mustard	<i>Brassica nigra</i>	1.3 to 2
Buckhorn plantain	<i>Plantago lanceolata</i>	1.3 to 2
Burclover	<i>Medicago arabica</i>	1.3 to 2
Carolina geranium	<i>Geranium carolinianum</i>	1.3 to 2
Cheat (6" to 12" tall)	<i>Bromus secalinus</i>	0.75 to 1.5
Chickweed	<i>Stellaria media</i>	1.3 to 2
Common mallow	<i>Malva neglecta</i>	1.3 to 2
Common speedwell	<i>Veronica officinalis</i>	1.3 to 2
Common yarrow	<i>Achillea millefolium</i>	1.3 to 2
Curly dock	<i>Rumex crispus</i>	1.3 to 2
Downy brome (6" to 12" tall)	<i>Bromus tectorum</i>	0.75 to 1.5
Foxtail barley (6" to 12" tall)	<i>Festuca jubatum</i>	1.3 to 2
Foxtail fescue (6" to 12" tall)	<i>Vulpia myuros</i>	1.3 to 2
Italian ryegrass (6" to 12" tall)	<i>Lolium multiflorum</i>	1.3 to 2
Jointed goatgrass (6" to 12" tall)	<i>Aegilops cylindrica</i>	1.3 to 2
Medusahead (6" to 12" tall)	<i>Taeniatherum caput-medusae</i>	0.75 to 1.5
Prickly coontail	<i>Ceratophyllum echinatum</i>	1.3 to 2
Red brome (6" to 12" tall)	<i>Bromus madritensis</i>	1.3 to 2
Reed canarygrass (6" to 12" tall)	<i>Phalaris arundinacea</i>	1.3 to 2
Ripgut brome (6" to 12" tall)	<i>Bromus diandrus</i>	1.3 to 2
Seashore saltgrass (6" to 12" tall)	<i>Distichlis spicata</i>	1.3 to 2
Seaside heliotrope	<i>Heliotropium curassavicum</i>	1.3 to 2
Signalgrass (6" to 12" tall)	<i>Brachiaria spp.</i>	1.3 to 2
Smooth brome	<i>Bromus inermis</i>	2 to 3
Spreading orach	<i>Atriplex patula</i>	1.3 to 2
Sunflower	<i>Helianthus annuus</i>	1.3 to 2
Western ragweed	<i>Ambrosia psilostachya</i>	1.3 to 2
Whitestem filaree	<i>Erodium moschatum</i>	1.3 to 2
Yellow foxtail (6" to 12" tall)	<i>Setaria glauca</i>	1.3 to 2

The weeds listed in High Rainfall Regions can also be controlled in Arid Regions; however, SULFOMETURON 75EG must be applied at higher rates (3 to 8 oz per acre) to control those weeds. These rates also provide better control in areas of heavy infestation where long-term weed control is desired.

### HIGH ANNUAL RAINFALL REGIONS (More than 20" Annual Rainfall)

Apply SULFOMETURON 75EG when the target vegetation is actively growing. Applications to target vegetation in times of drought stress may reduce performance of SULFOMETURON 75EG. Always use

a surfactant when making post emergent applications (See Spray Adjuvants sections). In areas where long term weed control is desired, applications of higher rates are needed. In areas where there are heavy infestations, soils with more than 2.5% organic matter, or areas with high moisture, the use of higher rates are recommended.

### WEEDS CONTROLLED

Common Name	Genus Species	Rate per Acre (weight oz)
Alta fescue	<i>Festuca alta</i>	3 to 5
Annual bluegrass	<i>Poa annua</i>	3 to 5
Annual ryegrass	<i>Lolium multiflorum</i>	3 to 5
Annual sowthistle	<i>Sonchus oleraceus</i>	3 to 5
Bedstraw	<i>Gallium aparine</i>	6 to 8
Bahiagrass	<i>Paspalum nutatum</i>	3 to 5
Barnyardgrass	<i>Echinochloa crus-galli</i>	3 to 5
Bouncingbet	<i>Saponaria officinalis</i>	3 to 5
Burclover	<i>Medicago arabica</i>	3 to 5
Canada thistle	<i>Cirsium arvense</i>	6 to 8
Carolina geranium	<i>Geranium carolinianum</i>	3 to 5
Common chickweed	<i>Stellaria media</i>	3 to 5
Common dandelion	<i>Taraxacum officinale</i>	3 to 5
Common speedwell	<i>Veronica officinalis</i>	3 to 5
Common yarrow	<i>Achillea millefolium</i>	3 to 5
Crimson clover	<i>Trifolium incarnatum</i>	3 to 5
Curly dock	<i>Rumex crispus</i>	6 to 8
Dogfennel	<i>Eupatorium capillifolium</i>	3 to 5
Downy brome	<i>Bromus tectorum</i>	3 to 5
Fescue	<i>Festuca arundinacea</i>	3 to 5
Foxtails (excluding green)	<i>Setaria</i> spp.	3 to 5
Filaree (Redstem)	<i>Erodium cicutarium</i>	6 to 8
Foxtail barley	<i>Hordeum jubatum</i>	3 to 5
Goldenrod	<i>Solidago</i> spp.	6 to 8
Hoary cress (white top)	<i>Cardaria</i> spp.	3 to 5
Horsetail (Equisetum)	<i>Equisetum arvense</i>	6 to 8
Indiangrass	<i>Sorghastrum nutens</i>	3 to 5
Italian ryegrass	<i>Lolium multiflorum</i>	3 to 5
Johnsongrass *	<i>Sorghum halapense</i>	6 to 8
Kentucky bluegrass	<i>Poa pratensis</i>	3 to 5
Kochia *	<i>Kochia scoparia</i>	2 to 8
Kudzu	<i>Pueraria lobata</i>	6 to 8
Little barley	<i>Hordeum pusillum</i>	3 to 5
Little mallow	<i>Malva parviflora</i>	3 to 5
Musk thistle	<i>Cardus nutans</i>	6 to 8
Mustard	<i>Brassica</i> spp.	3 to 5
Ox-eye daisy	<i>Chrysanthemum leucanthemum</i>	3 to 5
Pepperweed	<i>Lepidium virginicum</i>	3 to 5
Pigweed	<i>Amaranthus</i> spp.	3 to 5
Prickly lettuce *	<i>Lactuca serriola</i>	2 to 8
Purple starthistle	<i>Centaurea calcitrapa</i>	3 to 5
Queene Ann's Lace (wild carrot)	<i>Daucus carota</i>	3 to 5
Ragweed	<i>Ambrosia artemisiifolia</i>	3 to 5
Red brome	<i>Bromus madritensis</i>	3 to 5

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Red fescue	<i>Festuca rubra</i>	3 to 5
Reed canarygrass	<i>Phalaris arundinacea</i>	3 to 5
Ripgut brome	<i>Bromus diandrus</i>	3 to 5
Russian thistle *	<i>Salsola iberica</i>	2 to 8
Ryegrass*	<i>Lolium spp.</i>	3 to 5
Smooth brome	<i>Bromus inermis</i>	3 to 5
Sprangletop (annual)	<i>Leptochloa spp.</i>	3 to 5
Sweet clover	<i>Melilotus spp.</i>	3 to 5
Sunflower	<i>Helianthus annuus</i>	3 to 5
Tansymustard	<i>Descurainia pinnata</i>	3 to 5
Tansy ragwort	<i>Senecio jacobaea</i>	3 to 5
Tumble mustard	<i>Sisymbrium altissimum</i>	3 to 5
Turkey mullein	<i>Eremocarpus setigerus</i>	6 to 8
Vetch	<i>Vicia spp.</i>	3 to 5
Wheat (volunteer)	<i>Triticum aestivum</i>	3 to 5
Wild blackberry	<i>Rubus spp.</i>	6 to 8
Wild oats	<i>Avena fatua</i>	3 to 5
Yellow rocket	<i>Barbarea vulgaris</i>	3 to 5

\* Biotypes of Kochia, Russian thistle, Prickly lettuce, and Italian (annual) ryegrass have been documented to be resistant to SULFOMETURON 75EG. A herbicide with another or different mode of action that has these weeds listed as controlled should be tank mixed if these target weeds are in the areas of application. Applications should be made prior to seed development.

\* For the best control of perennial johnsongrass, applications should be made early to late post emergence. Repeat applications may be required in treated areas where perennial johnsongrass is pre emergence at the time of application. Areas that are low lying or have standing water that is pocketed or pooled may require repeat applications for season long weed control.

### TANK MIXES

For use in noncrop areas, SULFOMETURON 75EG herbicide may be tank-mixed with PENDULUM® herbicide for additional control of late season annual grasses and certain broadleaves. For additional weed control in noncrop areas, SULFOMETURON 75EG herbicide may be tank-mixed with glyphosate, ARSENAL® herbicide, SAHARA® DG herbicide, diuron, FINALE™, triclopyr, MSMA, dicamba, metsulfuron, picloram, or other labeled products. A compatibility test is advised for products not listed.

### FOR CONTROL OF UNDESIRABLE WEEDS UNDER PAVED SURFACES

SULFOMETURON 75EG can be used under asphalt and other paved areas, ONLY in industrial sites or where the pavement has a suitable barrier along the perimeter that prevents incroachment of roots of desirable plants. Paving should follow SULFOMETURON 75EG herbicide applications as soon as possible. Avoid applications where the chemical may contact the roots of desirable trees or other plants.

Do not use Sulfometuron 75 EG under pavement in residential properties such as driveways, parking lots, or in recreational areas such as under bike or jogging paths, golf cart paths, tennis courts or where landscape planting would be anticipated.

Injury or death of desirable plants may result if this product is applied where roots are present or where they may extend into the treated area. Roots of trees and shrubs may extend a considerable distance beyond the branch extremities or the so called drip line.

SULFOMETURON 75EG applications should be made to the soil surface only when final grade is established. Do not move soil following SULFOMETURON 75EG herbicide applications. Apply SULFOMETURON 75EG herbicide in sufficient water to ensure thorough and uniform wetting of the soil surface including the shoulder areas. Add SULFOMETURON 75EG herbicide at rate of 4 to 8 oz of

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product per acre to clean water in the spray tank during the filling operation. Agitate before spraying. If extended, long term weed control is desired or target weeds include woody brush or vines, SULFOMETURON 75EG herbicide can be tank mixed with SAHARA® herbicide at a rate of 10 to 19 pounds per acre.

#### **FOR CONTROL OF UNDESIRABLE WEEDS IN INDUSTRIAL OR NONCROPLAND BERMUDAGRASS**

SULFOMETURON 75EG herbicide may be used on noncropland bermudagrass turf. Examples of noncropland areas include, but are not limited roadsides, utility rights-of-way, railroad crossings, airports, and non-irrigation drainage ditches. Depending on bermudagrass type, timing of application, and SULFOMETURON 75EG herbicide rate, some foliar, stolon, and seedhead suppression may occur. **IMPORTANT:** Apply SULFOMETURON 75EG herbicide after bermudagrass has reached full green-up. Spring applications made prior to full green-up may delay green-up. **DO NOT** apply to grass under stress from drought, disease, insects or other causes. Simultaneous mow/spray operations may suppress internode development. After mowing, allow adequate foliage regrowth prior to SULFOMETURON 75EG application as some internode suppression may prevent bermudagrass from quickly recovering from mowing. Applications made with a surfactant may result in unacceptable turf injury or death. If this cannot be tolerated, avoid applications of SULFOMETURON 75EG herbicide in combination with a surfactant.

For control of labeled winter annual weeds in late winter or early spring, apply 1 to 2 ounces per acre of SULFOMETURON 75EG herbicide. Applications of SULFOMETURON 75EG during bermudagrass transition for dormancy to green up, may delay or stunt green up of the bermudagrass stand. Avoid applications at this timing if delayed green up cannot be tolerated.

For control of labeled winter annual broadleaves and grasses as well as perennial cool season grass such as tall fescue, apply SULFOMETURON 75EG herbicide 1 to 4 ounces per acre in late fall to early winter.

For johnsongrass control in unimproved, noncropland bermudagrass stands, apply 2 to 3 ounces per acre SULFOMETURON 75EG herbicide with another herbicide labeled for johnsongrass control in unimproved bermudagrass turf (such as MSMA) to increase control.

For additional weed control, SULFOMETURON 75EG herbicide may be tank mixed with OVERDRIVE, PENDULUM, triclopyr, 2,4-D, MSMA, glyphosate, dicamba or other products registered for applications unimproved bermudagrass turf. Avoid applications to turf type or improved bermudagrass varieties if stand injury or loss cannot be tolerated.

#### **FOR CONTROL OF UNDESIRABLE WEEDS IN UNIMPROVED CENTIPEDEGRASS**

SULFOMETURON 75EG herbicide may be applied at a rate of 1 to 2 oz per acre to established centipede grass for the control of annual broadleaf and grass weeds. Apply SULFOMETURON 75EG herbicide after centipede grass has reached full green-up. Spring applications made prior to full green-up may delay green-up. **DO NOT** apply to grass under stress from drought, disease, insects or other causes. Simultaneous mow/spray operations may suppress internode development. After mowing, allow adequate foliage regrowth prior to SULFOMETURON 75EG application as some internode suppression may prevent centipede grass from quickly recovering from mowing. Applications made with a surfactant may result in unacceptable turf injury or death. If this cannot be tolerated, avoid applications of SULFOMETURON 75EG herbicide in combination with a surfactant.

#### **FOR RELEASE AND SEEDHEAD SUPPRESSION IN BAHIA GRASS**

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SULFOMETURON 75EG herbicide may be used at a rate of 0.5 to 1 oz per acre to established stands of bahiagrass following 100% turf green up and prior to seedhead development. Make only one application per year. Applications made with a surfactant may result in unacceptable turf injury or death. If this cannot be tolerated, avoid applications of SULFOMETURON 75EG herbicide in combination with a surfactant.

#### **FOR CONTROL OF UNDESIRABLE WEEDS IN SMOOTH BROMEGRASS AND CRESTED WHEATGRASSES**

SULFOMETURON 75EG herbicide may be used on smooth brome grass and crested wheatgrass. SULFOMETURON 75EG herbicide provides control of labeled grass and broadleaf weeds (see "WEEDS CONTROLLED" sections). Treatment of smooth brome grass and wheatgrass with SULFOMETURON 75EG herbicide may result in foliar height and seedhead suppression. Applications made with a surfactant may result in unacceptable turf injury or death. If this cannot be tolerated, avoid applications of SULFOMETURON 75EG herbicide in combination with a surfactant.

**Smooth Brome grass and Crested Wheatgrass:** Use SULFOMETURON 75EG herbicide at 1 oz per acre in the spring for weed control and growth suppression after smooth brome grass and "wildtype" common Kentucky bluegrass have reached 100% green-up. Applications prior to 100% green-up may delay green-up. DO NOT apply to grass under stress from drought, disease, insects or other causes. Simultaneous mow/spray operations may suppress internode development. After mowing, allow adequate foliage regrowth prior to SULFOMETURON 75EG application as some internode suppression may prevent centipede grass from quickly recovering from mowing. Avoid applications to newly planted grass stands if injury or loss of stand cannot be tolerated. Make only one application per year. Applications made during grass stand dormancy may suppress green up in the spring.

#### **GRASS REPLANT INTERVALS**

The following grasses may be replanted at least 3 months after a spring application of sulfometuron at use rates up to 1.5 oz per acre:

Green needlegrass, meadow brome, Russian wildrye and switchgrass.

The following grasses may be replanted at least 6 months after a spring application of sulfometuron at use rates up to 1.5 oz per acre:

Alta fescue, meadow foxtail, orchardgrass, smooth brome grass, sheep fescue and western wheatgrass.

These grass replant intervals are recommended for soils with a pH of less than 7.5. Soils having a pH greater than 7.5 will require longer intervals due to the slower degradation rate. The recommended intervals are for applications made in spring. Because sulfometuron degradation is slowed by cold or frozen soils, applications made in the fall should consider the intervals as beginning in the spring following treatment.

There is considerable variation in response among species and types of grasses when seeded into areas treated with sulfometuron. If species other than those listed above are to be planted into areas treated with sulfometuron a field bioassay should be performed, or previous experience may be used to determine the feasibility of replanting treated areas.

Areas treated with sulfometuron should not be grazed by domestic livestock for a minimum of 1 year after treatment.

### MIXING INSTRUCTIONS

Fill the spray tank one-half to three-quarters full with clean water. Use a calibrated measuring device to measure the required amount of SULFOMETURON 75EG herbicide. Add SULFOMETURON 75EG herbicide to the spray tank while agitating. If using an additional product add the recommended amount. Fill the remainder of the tank with water.

For postemergence applications, add a surfactant to the spray tank (see "**SPRAY ADJUVANTS FOR POSTEMERGENCE APPLICATIONS**" section of this label for specific recommendations). Maintain agitation while spraying to ensure a uniform spray mixture. An antifoaming agent may be added to the tank if needed.

### SPRAYING INSTRUCTIONS

**DO NOT** apply during windy or gusty conditions unless applications are being made with a drift control agent and/or an enclosed or shielded spray system. **DO NOT** apply if rainfall is threatening.

#### GROUND APPLICATIONS:

Uniformly apply with properly calibrated ground equipment in 2 or more gallons of water per acre. Application equipment, specially designed to make low volume application should be used when making applications using less than 10 gallons of water per acre. A spray pressure of 20 to 40 psi is recommended.

To achieve acceptable control of the target vegetation, good spray coverage of the weed foliage (postemergence) or soil surface (preemergence) is required. To achieve good spray coverage the sprayer must be calibrated to deliver the recommended spray volume and pressure and adjust the spray boom height to ensure proper coverage of weed foliage or soil surface (according to the manufacturer's recommendation). Avoid overlaps when spraying.

#### AERIAL APPLICATION:

All precautions should be taken to minimize or eliminate spray drift. Only helicopters can be used to apply SULFOMETURON 75EG herbicide. Aerial equipment designed to minimize spray drift such as a helicopter equipped with a microfoil boom, or THRU-VALVE™ boom or raindrop nozzles, must be used and calibrated. Except when applying with a MICROFOIL boom, a drift control agent may be added at the recommended label rate. To avoid drift, applications should not be made during inversion conditions, when winds are gusty, or under any other conditions that promote spray drift. Suggested spray volumes of 5 to 15 gallons per acre should be used to ensure thorough coverage of target species.

Uniformly apply recommended amount of SULFOMETURON 75EG herbicide, using enough water volume to provide adequate coverage of target area or foliage. Include an adjuvant in the spray solution (see "SPRAY ADJUVANTS FOR POSTEMERGENCE APPLICATIONS" section). A foam reducing agent may be added at the recommended rate, if needed. Aerial application to target species growing under the canopy of trees and brush may not receive sufficient spray coverage for effective control. For weed species with a recommended fall application timing (see "**WEED CONTROL**" section).

**IMPORTANT:** Thoroughly clean application equipment, including landing gear, immediately after use of this product. Prolonged exposure of this product to uncoated steel (except stainless steel) surfaces may result in corrosion and failure of the exposed part. The maintenance of an organic coating (paint) may prevent corrosion.

Avoid overlaps when spraying.

### SPRAY ADJUVANTS FOR POSTEMERGENCE APPLICATIONS

Postemergence applications of SULFOMETURON 75EG herbicide require a spray adjuvant. See "WEED CONTROL" section. Due to variations in surfactant contents, certain surfactants containing high amounts of alcohols, paraffin based petroleum oils, and other compounds which can increase phytotoxicity to desirable vegetation, it is recommended to choose a low phytotoxic surfactant. The addition of a spray adjuvant may increase injury on desired grass species.

When an adjuvant is to be used with this product, Arysta recommends the use of a Chemical Producers and Distributors Association (CPDA) certified adjuvant.

**Methylated Seed Oils or Vegetable Oil Concentrates:** Instead of a surfactant, a methylated vegetable-based seed oil concentrate containing 5 to 20% surfactant may be used at the rate of 1.5 to 2 pints per acre. Methylated seed oils provide their greatest effects at 30 GPA or less. At spray volumes above 50 GPA, their advantage appears negated. When using spray volumes greater than 30 gallons per acre methylated seed oil or vegetable based seed oil concentrates should be mixed at a rate of 1% of the total spray volume or alternatively use a nonionic surfactant as described below.

**Nonionic Surfactants:** Use a nonionic surfactant at the rate of 0.25% v/v or higher (see manufacturer's label) of the spray solution (0.25% v/v is equivalent to 1 quart in 100 gallons). For best results, select a nonionic surfactant with a HLB (hydrophilic to lipophilic balance) ratio between 12 and 17 and having at least 60% surfactant in the formulated product (alcohols, fatty acids, oils, ethylene glycol or diethylene glycol should not be considered as surfactants to meet the above requirements). Nonionic surfactants are the preferred adjuvant for SULFOMETURON 75EG herbicide when making seedhead or grass growth suppression applications

**Silicone-Based Surfactants:** See manufacturer's label for specific rate recommendations. Silicone-based surfactants may reduce the surface tension of the spray droplet allowing greater spreading on the leaf surface as compared to conventional nonionic surfactants. However, some silicone-based surfactants may dry too quickly, limiting herbicide uptake and higher spray volumes may exhibit "run-off".

### SPRAY DRIFT MANAGEMENT

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

#### IMPORTANCE OF DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets (>150 - 200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage.

APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS!

See **Wind, Temperature and Humidity**, and **Temperature Inversions** sections of this label.

### Controlling Droplet Size - General Techniques

- Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure - Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.
- 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.

### Controlling Droplet Size - Aircraft

- Number of Nozzles - Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- Nozzle Orientation - Orienting nozzles so that the spray is emitted backwards, parallel to the airstream will produce larger droplets than other orientations.
- Nozzle Type - Solid stream nozzles (such as disc and core with swirl plate removed) oriented straight back produce larger droplets than other nozzle types.

### BOOM LENGTH AND HEIGHT

- Boom Length (aircraft) - For helicopters use a boom length and position that prevents droplets from entering the rotor vortices.
- Boom Height (aircraft) - Application more than 10 ft above the canopy increases the potential for spray drift.
- Boom Height (ground) - Setting the boom at the lowest labeled height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. The boom should remain level with the crop and have minimal bounce.

### WIND

Drift potential increases at wind speeds of less than 3 mph (due to variable direction and inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. AVOID GUSTY OR WINDLESS CONDITIONS.

**Note:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they effect spray drift.

### TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

### SURFACE TEMPERATURE INVERSIONS

Drift potential is high during a surface temperature inversion. Surface inversions restrict vertical air mixing, which causes small-suspended droplets to remain close to the ground and move laterally in a

concentrated cloud. Surface inversions are characterized by increasing temperature 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 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 a surface inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

## SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce 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.

## SPRAYER CLEANUP

Thoroughly clean all mixing and spraying equipment following applications of SULFOMETURON 75EG as follows:

1. Drain tank; thoroughly rinse spray tanks, boom and hoses with clean water.
2. Fill the tank with water and 1 gallon of household ammonia (contains 3% active) for every 100 gallons of water. Flush the hoses, boom and nozzles with cleaning solution. Then add more water to completely fill the tank. Circulate the cleaning solution through the tank and hoses for at least 15 minutes. Flush the hoses, boom and nozzles again with the cleaning solution, and then drain tank.

Equivalent amounts of an alternate-strength ammonia solution or a commercial cleaner can be used in the cleanout procedure. If a commercial cleaner is used, carefully read and follow the individual cleaner instructions.

3. Remove the nozzles and screens and clean separately in a bucket containing cleaning agent and water.
4. Repeat Step 2.
5. Rinse the tank, boom and hoses with clean water.
6. Dispose of the rinsate on a labeled site or at an approved waste disposal facility. If a commercial cleaner is used, follow the directions for rinsate disposal on the label.

### Notes:

1. Caution: DO NOT use chlorine bleach with ammonia, as dangerous gases will form. DO NOT clean equipment in an enclosed area.
2. Steam-cleaning aerial spray tanks is recommended before performing the above cleanout procedure to facilitate the removal of caked deposits.
3. When SULFOMETURON 75EG is tank mixed with other pesticides, all required cleanout procedures should be examined and the most rigorous procedure should be followed.

## IMPORTANT PRECAUTIONS

Injury to or loss of desirable trees or other plants may result from failure to observe the following:

- If equipment is drained or flushed on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.
- **DO NOT** treat powdery dry soil or light, sand soil when there is little likelihood of rainfall soon after treatment. Treatment of powdery, dry soil or light, sandy soil when there is little likelihood of rainfall

soon after treatment may result in off target movement and possible damage to susceptible crops when soil particles are moved by wind or water. Injury to crops may result if treated soil is washed, blown, or moved onto land used to produce crops. Exposure to SULFOMETURON 75EG may injure or kill most crops. Injury may be more severe when the crops are irrigated.

- Applications made where runoff water flows onto agricultural land may injure crops. Applications made during periods of intense rainfall, to soils saturated with water, surfaces paved with materials such as asphalt or concrete, or soils through which rainfall will not readily penetrate may result in runoff and movement of SULFOMETURON 75EG. **DO NOT** treat frozen soil. Treated soil should be left undisturbed to reduce the potential for SULFOMETURON 75EG movement by soil erosion due to wind or water.

**DO NOT** use on lawns, walks, driveways, tennis courts, or similar areas.

Keep from contact with fertilizers, insecticides, fungicides, and seeds.

**DO NOT** apply through any type of irrigation system.

**DO NOT** use the equipment used to mix or apply SULFOMETURON 75EG on crops. The mixing and application equipment may be used for forestry and noncrop applications only.

If noncrop or forested sites treated with SULFOMETURON 75EG are to be converted to a food, feed, or fiber agricultural crop, or to a horticultural crop, **DO NOT** plant the treated sites for at least one year after the SULFOMETURON 75EG application. To avoid damage to crops planted in these areas, and to ensure complete SULFOMETURON 75EG dissipation in treated sites, soil samples should be quantitatively analyzed, and a bioassay should be conducted before planting.

**DO NOT** use this product in the following counties of Colorado: Saguache, Rio Grande, Alamosa, Costilla and Conejos.

### STORAGE AND DISPOSAL

**PESTICIDE STORAGE:** Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage.

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. 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 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. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**NOTICE TO BUYER:** Purchase of this material does not confer any rights under patents of countries outside of the United States.

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### **Warranty and Disclaimer Statement**

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America, LLC ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

Arysta 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 described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF ARYSTA IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF ARYSTA, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT ARYSTA'S ELECTION, THE REPLACEMENT OF THE PRODUCT.**

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