



Envoy[®]

HERBICIDE

Active Ingredient	By Wt.
*Clethodim.....	12.6%
Other Ingredients	87.4%

Contains Petroleum Distillates

*(E)-2[1-[[[(3-chloro-2-propenyl)oxy]imino] propyl]-5-[2-(ethylthio)propyl]-3-hydroxy-2-cyclohexen-1-one

Contains 0.94 lbs. clethodim per gal.

U.S. Pat. No. 4,440,566, RE - 32,489

DIRECTIONS FOR USE IN CONIFER TREES, NON-BEARING FOOD CROPS, AND NON-CROP OR NON-PLANTED AREAS

IMPORTANT

Plant tolerance to ENVOY Herbicide at labeled rates has been found to be acceptable for the indicated genera and species listed below. Due to variability within species, crop growth stage, environmental conditions, and application techniques, it is recommended that the user determine if herbicide can be used safely on a few plants prior to widespread application. Neither the seller nor the manufacturer of ENVOY Herbicide have investigated the safety factor to plants not listed on the label.

The following plants have shown a tolerance for ENVOY Herbicide applications:

CONIFER TREES

ENVOY Herbicide can be used to control labeled grasses in Christmas tree farms, conifer nurseries and conifer plantations (but not in forests).

COMMON NAME	SCIENTIFIC NAME
Arbovitae, American	<i>Thuja occidentalis</i>
Cedars	<i>Cedrus</i> spp.
Cypress	<i>Taxodium</i> spp.
Douglas Fir	<i>Pseudotsuga menziesii</i>
Firs	<i>Abies</i> spp.
Hemlock, Canadian	<i>Tsuga canadensis</i>
Hemlock, Western	<i>Tsuga heterophylla</i>
Pines	<i>Pinus</i> spp.
Spruces	<i>Picea</i> spp.
Yew	<i>Taxus</i> spp.

NON-BEARING FOOD CROPS

Non-bearing fruit and nut crops are plants which will not bear fruit or nuts for at least one year following ENVOY Herbicide application.

COMMON NAME	SCIENTIFIC NAME
Apples	<i>Malus</i> spp.
Berries	<i>Vaccinium</i> spp.
	<i>Rubus</i> spp.
Cherry, Sweet	<i>Prunus avium</i>
Citrus Fruits	<i>Citrus</i> spp.
Grapes	<i>Vitis</i> spp.
Olives	<i>Olea</i> spp.
Peach	<i>Prunus persica</i>
Pears	<i>Pyrus communis</i>
Prunes	<i>Prunus</i> spp.
Stone Fruits	<i>Prunus</i> spp.
Strawberries	<i>Fragaria</i> spp.
Tree Nuts	<i>Juglans</i> spp. (walnut)
	<i>Carya illinoensis</i> (pecan)
	<i>Pistacia vera</i> (pistachio)
	<i>Prunus dulcis</i> (almond)
	<i>Corylus maxima</i> (filbert)

GRASS SPECIES, Continued		WEED HEIGHT INCHES*	RATE FL. OZ./ ACRE	HIGH RATE ⁽⁴⁾
Fall Panicum	<i>Panicum dichotomiflorum</i>	2 - 8	13	17
Field Sandbur	<i>Cenchrus incertus</i>	2 - 6	13	17
Foxtail				
Giant	<i>Setaria faberii</i>	2 - 12	13	17
Green	<i>Setaria viridis</i>	2 - 8	13	17
Yellow	<i>Setaria glauca</i>	2 - 8	13	17
Goosegrass	<i>Elymus indica</i>	2 - 6**	13	17
Hitchgrass	<i>Rotibofia exaltata</i>	2 - 6	13	17
Junglerice	<i>Echinochloa colona</i>	2 - 6	13	17
Lovegrass	<i>Eragrostis ciliaris</i>	2 - 6	13	17
(Stinkgrass)				
Rabbitfootgrass	<i>Polypogon monspeliensis</i>	1 - 4	13	17
Red Rice	<i>Oryza sativa</i>	1 - 3	13	17
Ryegrass				
Hardy	<i>Lolium remotum</i>	2 - 6	13	17
Italian	<i>Lolium multiflorum</i>	2 - 6	13	17
Seeding	<i>Sorghum halepense</i>	4 - 10	13	17
Johnsongrass				
Shattercane	<i>Sorghum bicolor</i>	6 - 18	13	17
Southwestern	<i>Echinochloa gracilis</i>	2 - 6	13	17
Cupgrass				
Sprangletop				
Amazon	<i>Leptochloa panicoides</i>	2 - 6	13	17
Bearded	<i>Leptochloa fascicularis</i>	2 - 6	13	17
Mexican	<i>Leptochloa univervis</i>	2 - 6	13	17
Red	<i>Leptochloa filiformis</i>	2 - 6	13	17
Texas Panicum	<i>Panicum texanum</i>	2 - 6	13	17
Volunteer Cereals ⁽³⁾				
Barley	<i>Hordeum vulgare</i>	2 - 6	13	17
Oats	<i>Avena sativa</i>	2 - 6	13	17
Rye	<i>Secale cereale</i>	2 - 6	13	17
Wheat	<i>Triticum aestivum</i>	2 - 6	13	17
Volunteer Corn ⁽²⁾	<i>Zea mays</i>	4 - 12	9	13
Volunteer Corn (S.R. ⁽¹⁾)	<i>Zea mays</i>	4 - 12	17	(suppression only)
Volunteer Corn ⁽²⁾	<i>Zea mays</i>	12 - 24	13	17
Volunteer Grain				
Sorghum	<i>Sorghum bicolor</i>	8 - 12	13	17
Wild Oats	<i>Avena fatua</i>	2 - 6	13	17
Wild Proso	<i>Panicum</i>	2 - 10	13	17
Millet	<i>milaceum</i>			
Witchgrass	<i>Panicum capillare</i>	2 - 8	13	17
Woolly	<i>Echinochloa villosa</i>	2 - 8	13	17
Cupgrass				

* Generally occurs between 3-leaf stage and tillering.

** Length of lateral growth.

(1) Sethoxydim resistant volunteer corn.

(2) Includes Roundup Ready®, Liberty Link® and IMI-CORN® volunteer corn.

(3) When the cereal grain crop (such as wheat) is interseeded for crop establishment or is planted as wind breaks to aid crop establishment, the minimum ENVOY Herbicide use rate for control is 17 fl. oz./A.

(4) Rates higher than 17 fl. oz./A may be applied in certain geographic areas, cropping situations or environmental conditions, where experience has shown that higher rates are needed for satisfactory control of annual grasses. In these situations, rates from 17 to 34 fl. oz./A may be applied.

RECOMMENDATIONS FOR ANNUAL BLUEGRASS CONTROL WITH ENVOY HERBICIDE

GRASS SPECIES	WEED STAGE	RATE FL. OZ./ ACRE	
		LOW RATE	HIGH RATE
Annual Bluegrass (<i>Poa annua</i>)	to 4-Leaf	13	34

Apply under favorable soil moisture and humidity which exists within a few days after rainfall or within 7 days after irrigation. Grass needs to be actively growing at time of application(s).

Apply at weed stage indicated on the label, as reduced control can be expected with more mature annual bluegrass.

Use the high rate under heavy grass pressure and/or when annual bluegrass is more mature.

Always add a crop oil concentrate containing at 1% w/v (but not less than 1 pt. per acre) to the finished spray volume.

RECOMMENDATIONS FOR PERENNIAL GRASSES

- Apply only to actively growing grasses at recommended weed heights.
- Apply when the first grass weed species in a mixed grass weed population reaches the recommended growth stage for treatment.
- Use the high rate under heavy grass pressure and/or when grasses are at maximum height.

GRASS SPECIES	WEED HEIGHT INCHES	RATE FL. OZ./ ACRE	
		LOW RATE	HIGH RATE
Bermudagrass (<i>Cynodon dactylon</i>)			
First Application	3 (or up to 6" runners)	17	34
Repeat Application(s) (if regrowth occurs)	3 (or up to 6" runners)	17	34
Fescue, tall (<i>Festuca arundinacea</i>)			
First Application	4 - 8	17	34
Repeat Application(s) (if regrowth occurs)	4 - 8	17	34
Foxtail Barley (<i>Hordeum jubatum</i>)			
First Application	2 - 6	17	34
Repeat Application(s) (if regrowth occurs)	2 - 6	17	34
Orchardgrass (<i>Dactylis glomerata</i>)			
First Application(s)	4 - 8	17	34
Repeat Application(s) (if regrowth occurs)	4 - 8	17	34
Quackgrass* (<i>Agropyron repens</i>)			
First Application	4 - 12	17	34
Repeat Application(s) (if regrowth occurs)	4 - 12	17	34
Rhizome Johnsongrass (<i>Sorghum halepense</i>)			
First Application	12 - 24	17	34
Repeat Application(s) (if regrowth occurs)	6 - 18	13	17
Wirestem Muhly (<i>Muhlenbergia frondosa</i>)			
First Application	4 - 8	17	34
Repeat Application(s) (if regrowth occurs)	4 - 8	17	34

* Control of quackgrass with ENVOY Herbicide may be enhanced by adding AMS at 2.5 to 4.0 lbs./A.