

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

5 AUG 1993

Lizabeth R. Simila  
Rhone-Poulenc AG Company  
P.O. Box 12014  
2 T.W. Alexander Drive  
Research Triangle Park, NC 27709

Dear Ms. Simila:

Subject: Revised Labeling - Add Restriction Against Home-Use  
Asulox Herbicide  
EPA Registration No. 264-447  
Your Submission Dated March 25, 1993

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable with the following provisions:

- 1) Correct the spelling of the active ingredient to read "methyl sulfanilylcarbamate."
- 2) Add a Net Contents statement to the front panel.
- 3) Due to new EPA policy, part of the Environmental Hazards section has been changed. To comply, change the sentence "Do not apply to water or wetlands (swamps, bogs, lagoons, marshes or potholes)" to read "Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark."

A stamped copy is enclosed for your records. Please submit five (5) final printed copies for the referenced label, incorporating the above changes.

CONCURRENCES							
SYMBOL	NA7505C						
SURNAME	D. KENNY						
DATE	8/4/93						

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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This acceptance of your label does not relieve you of any obligation to comply with the Worker Protection Standard (WPS). Under the WPS labeling regulations at 40 CFR part 156, subpart K, § 156.200(c)(3), you are prohibited from distributing or selling any product within the scope of the WPS requirements after April 21, 1994, without amended labeling accepted by the Agency.

Sincerely yours,

Joanne I. Miller  
Product Manager (23)  
Fungicide-Herbicide Branch  
Registration Division (H7505C)

) Enclosure

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

# ASULOX<sup>®</sup> Herbicide

**FOR AGRICULTURAL OR COMMERCIAL USE ONLY  
NOT FOR USE BY HOMEOWNERS**

**For Postemergent Weed Control In Sugarcane, Turf, Ornamentals, Christmas Tree Plantings and Non-Cropland.**

**ACTIVE INGREDIENT: Sodium salt of asulam (methyl sulfanilylcarbamate)\*.....36.2%**

**INERT INGREDIENTS: ..... 63.8%**

**\*Equivalent to 33.1% asulam or not less than 3.34 lbs. per gallon.**

**EPA Reg. No. 264-447**

**EPA Est. No. 572-42-FL-001**

## KEEP OUT OF REACH OF CHILDREN CAUTION

**For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577  
For PRODUCT USE Information Call 1-800-334-9745**

### STATEMENT OF PRACTICAL TREATMENT

**IF ON SKIN:** Wash with plenty of soap and water. If irritation persists, get medical attention.

**IF IN EYES:** Flush with water for 15 minutes and get medical attention if irritation persists.

**ACCEPTED  
with COMMENTS  
in EPA Letter Dated**

### PRECAUTIONARY STATEMENTS

**5 AUG 1993**

#### CAUTION

#### HAZARD TO HUMANS AND DOMESTIC ANIMALS

Avoid contact with skin, eyes, or clothing. Wash thoroughly after handling.

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

#### ENVIRONMENTAL HAZARDS

Do not apply directly to water or wetlands (swamps, bogs, lagoons, marshes or potholes). Do not clean equipment or dispose of equipment washwater in a manner that will contaminate water resources. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

264-447

### DIRECTIONS FOR USE

**It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.  
Read entire label before using this product.**

Do not apply ASULOX<sup>®</sup> Herbicide through any type of irrigation systems.

### STORAGE AND DISPOSAL

#### STORAGE

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Store at temperatures above 20° F.

#### PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

#### CONTAINER DISPOSAL

Triple rinse or equivalent. Puncture and dispose of in a sanitary landfill, by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### SUGARCANE

ASULOX<sup>®</sup> Herbicide can be applied to either plant cane or cane grown from stubble. Apply ASULOX<sup>®</sup> as a water mix spray for ground applications. Use 15 to 100 gallons of water per acre, depending on local practice. For aerial application, ASULOX<sup>®</sup> Herbicide should be mixed in 3 to 5 gallons of water per acre, except in Hawaii, where 5 to 10 gallons of water per acre should be used.

Addition of an adjuvant cleared for use on growing crops to the ASULOX<sup>®</sup> Herbicide water mix spray will improve weed control when environmental conditions are not optimal. Use either a non-ionic surfactant containing a minimum of 80% active ingredient at the rate of 1 to 2 quarts per 100 gallons (0.25 to 0.5% V/V) of water mix spray or a crop oil concentrate containing 80 to 85% paraffin based petroleum oil and 15 to 20% non-ionic surfactant at the rate of 4 quarts per 100 gallons (1% V/V) of water mix spray.

**BEST AVAILABLE COPY**

The rates of ASULOX® Herbicide given below are for broadcast applications. For banded application, reduce the rate proportionally to the width of the band according to the following formula:

$$\frac{\text{Band width(Inches)}}{\text{Row width(Inches)}} \times \text{Broadcast Rate} = \text{Band Rate/Acre}$$

For spot treatments, use 6 to 12 pints of ASULOX® Herbicide in 100 gallons of water and apply in an amount not to exceed 50 gallons of total spray solution per acre. Do not exceed 8 pints per acre per treatment.

ASULOX® Herbicide should be used when the weeds are actively growing.

Do not plant crops other than sugarcane in treated area. Cover crops may be planted if plowed under and not grazed.

Do not treat sugarcane within 90 days of harvest.

Do not graze or feed sugarcane fodder and forage to livestock.

Do not rotate with any crop which is not registered for use with ASULOX® Herbicide for 1 year following the last application of this chemical.

## SUGARCANE

### Single Application Per Growing Season

WEED SPECIES	SPECIAL INSTRUCTIONS	RATE
Itchgrass or Raoulgrass ( <i>Rottboellia exaltata</i> )	Apply when the grass is 12 inches tall or less (addition of surfactant is necessary).	8 pints/acre
Johnsongrass ( <i>Sorghum halepense</i> )	Apply when the grass is between 18 to 24 inches tall.	
Paragrass or Californiagrass ( <i>Brachiaria mutica</i> or <i>Panicum purpurascens</i> )	Apply when the grass is 6 to 8 inches tall or less.	
Crabgrass ( <i>Digitaria spp.</i> )	If treatment is made before the grass reaches seed head formation then the lower rate should be used. If the grass is in early seed head formation then the higher rate should be used.	6 to 8 pints/acre
Alexandergrass ( <i>Brachiaria plantaginea</i> ) Foxtail ( <i>Setaria spp.</i> ) Goosegrass ( <i>Eleusine indica</i> ) Broadleaf Panicum ( <i>Panicum adspersum</i> ) Barnyardgrass ( <i>Echinochloa crusgalli</i> )	If treatment is made when the grass is 6 to 8 inches tall or less, then the lower rate should be used. If the grass is greater than 8 inches tall, then the higher rate should be used.	

## SUGARCANE

### Two Applications Per Growing Season

This may be required when initial weed infestations are heavy or reinfestation from seed occurs. Two applications may also be used when treating weed species which germinate at different times during one growing season.

WEED SPECIES	SPECIAL INSTRUCTIONS	1ST APPLICATION	2ND APPLICATION
Crabgrass ( <i>Digitaria spp.</i> )	At each application the grass should be treated before seed head formation.	6 to 8 pints/acre	6 to 8 pints/acre
Itchgrass or Raoulgrass ( <i>Rottboellia exaltata</i> )	At each application the grass should be 12 inches tall or less (Addition of surfactant is necessary).	8 pints/acre	8 pints/acre
Johnsongrass ( <i>Sorghum halepense</i> )	At each application the grass should be between 18 and 24 inches tall.	8 pints/acre	4 to 8 pints/acre

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## NON-CROPLAND

ASULOX® Herbicide may be used as a postemergent treatment to control weeds on non-cropland areas such as:

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>Boundary fences</li> <li>Fence rows</li> <li>Highway and roadside rights-of-way</li> <li>Lumberyards</li> <li>Pipeline rights-of-way</li> </ul> | <ul style="list-style-type: none"> <li>Railroad rights-of-way and yards</li> <li>Storage areas and industrial plant sites</li> <li>Utility rights-of-way and yards</li> <li>Warehouse lots</li> </ul> |
|--|---|

A surfactant may be added to the spray solution at 0.25% by volume. (Use an approved non-ionic surfactant.)

Apply ASULOX® as a water-mix spray for ground applications using 20 to 100 gallons of solution per acre, depending on local practice, to control the following weed species:

WEED SPECIES	SPECIAL INSTRUCTIONS	RATE
Crabgrass ( <i>Digitaria spp.</i> )	Apply before the grass reaches seed head formation.	1 to 2 gals/acre
Johnsongrass ( <i>Sorghum halepense</i> )	Apply when the grass is 18 inches or taller. Use the higher rate in well established heavy infestations. For spot treatment in Hawaii, use the higher rate in 100 gallons of solution and apply an amount not to exceed 50 gallons of total solution per acre.	
Paragrass or Californiagrass ( <i>Brachiaria mutica</i> or <i>Panicum purpurascens</i> )	Apply before the grass reaches seed head formation. For spot treatment in Hawaii, use the same rate in 100 gallons of solution and apply an amount not to exceed 50 gallons of total solution per acre.	
Western Bracken ( <i>Pteridium aquilinum</i> var. <i>pubescens</i> )	Apply when the fern is in full frond.	7 to 8 pints/acre

## CHRISTMAS TREE PLANTINGS

ASULOX® Herbicide may be used as a postemergent treatment in Christmas Tree Plantings where Douglas Fir, Grand Fir, Nobel Fir or Scotch Pine are grown. Do not graze or feed foliage from treated areas to livestock.

ASULOX® Herbicide should be applied as a water mix spray. For ground application, use a minimum of 20 gallons of solution per acre; and for aerial application, use a minimum of 10 gallons of solution per acre. Do not use a wetting agent with ASULOX® Herbicide.

WEED SPECIES	SPECIAL INSTRUCTIONS	RATE
Western Bracken ( <i>Pteridium aquilinum</i> var. <i>pubescens</i> )	Apply after bud break and hardening or firming of new tree growth. Bracken should be in full frond prior to treatment.	1 Gal./Acre

## TURF

ASULOX® Herbicide can be applied on St. Augustinegrass and Tifway 419 Bermudagrass turf. Apply one application per season postemergence to the weeds listed below. Use 20 to 50 gallons of water per acre in the spray solution.

TURF SPECIES	WEED SPECIES	RATE
St. Augustinegrass	Bulgrass ( <i>Paspalum supinum</i> ), Crabgrass ( <i>Digitaria sp.</i> ), Goosegrass ( <i>Eleusine indica</i> )	5 pints/acre
Tifway 419 Bermudagrass	Sandbur ( <i>Cenchrus sp.</i> )	

Do not use a surfactant. Do not apply to turf which is under stress or freshly mowed.

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# ORNAMENTALS

ASULOX® Herbicide can be applied as a single, postemergent, broadcast application on the following ornamentals:

JUNIPERS		YEWS
Juniperus andorra Juniperus chinensis Juniperus conferta	Juniperus horizontalis Juniperus litoralis Juniperus sabina	Taxus cuspidata Taxus media Pondocarpus macrophyllus

Treatment should be made with a minimum of 20 gallons of water per acre. Do not use a surfactant.

WEED SPECIES	SPECIAL INSTRUCTIONS	RATE
Barnyardgrass ( <i>Echinochloa crusgali</i> ) Crabgrass ( <i>Digitaria sp.</i> ) Fall Panicum ( <i>Panicum dichotomiflorum</i> ) Foxtails ( <i>Setaria sp.</i> ) Goosegrass ( <i>Eleusine indica</i> ) Horseweed (marestail) ( <i>Conyza canadensis</i> )	Apply when the weeds are between the stages of early seedling and early seed head formation.	1 gal./acre

Local conditions may affect the use of this chemical. Consult State Agricultural Extension or Experiment Station weed specialists for specific recommendations for local weed problems and for information on possible lower dosages.

## LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions, and (c) that the directions, warnings and other statements on this label are based upon responsible experts' evaluation of reasonable tests of effectiveness of toxicity to laboratory animals and to plants and of residues on food crops and upon reports of field experience. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTIES EXPRESS OR IMPLIED AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

THIS WARRANTY DOES NOT EXTEND TO AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE SHALL BE LIMITED AT THE MANUFACTURER'S OPTION TO REPLACEMENT OF OR THE REPAYMENT OF THE PURCHASE PRICE FOR THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

### NOTICE TO BUYER

Purchase of this material does not confer any rights under patents governing this product or the use thereof in countries outside of the United States.

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Research Triangle Park, North Carolina 27709

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ASULOX® Herbicide (PENDING) Submitted 2/ \_\_/93.