



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

92044-7

Date of Issuance:

6/4/20

NOTICE OF PESTICIDE:

☒ Registration  
☐ Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

CAC Asulam 400 Herbicide

Name and Address of Registrant (include ZIP Code):

CAC Chemical America, LLC  
c/o Pyxis Regulatory Consulting  
4110 136<sup>th</sup> St. Ct. NW  
Gig Harbor, WA 98332

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 92044-7."
3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

Signature of Approving Official:

Erik Kraft, Product Manager 24  
Fungicide Herbicide Branch, Registration Division (7505P)

Date:

6/4/20

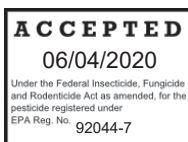
Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 5/27/2020

If you have any questions, please contact Nathan Mellor by phone at 703-347-8562, or via email at [mellor.nathan@epa.gov](mailto:mellor.nathan@epa.gov)

Enclosure



ASULAM

GROUP

18

HERBICIDE

## CAC Asulam 400 Herbicide

For Post-emergent weed control in Sugarcane, Turf, Ornamentals, Christmas Tree Plantings and Non-Cropland

### ACTIVE INGREDIENT:

Asulam-Sodium (sodium methyl [(4-aminophenyl)sulfonyl]carbamate) .....36.2%

**OTHER INGREDIENTS:**.....63.8%

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

Equivalent to 33.0% asulam acid or 3.30 lb asulam per gallon (397 g/L).

**KEEP OUT OF REACH OF CHILDREN**

## WARNING

FIRST AID	
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15–20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• <b>DO NOT</b> induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li> </ul>
<b>IF INHALED</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>NOTE TO PHYSICIAN</b> Persons suffering with temporary allergic skin reactions may respond to treatment with oral antihistamines and topical or oral steroids.	
<b>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	

**[See] [inside] [label] [booklet] [for] [First Aid][,] [additional] [Precautionary Statements][,] [and] [Directions for Use] [including] [Storage and Disposal] [instructions][.]**

**FOR 24-HOUR EMERGENCY ASSISTANCE:** Spill, leak, fire, exposure, or accident Call CHEMTREC day or night at 1-800-424-9300 or 1-703-527-3887 if calling from outside of the U.S.

### Manufactured for:

CAC Chemical Americas, LLC  
7 Castle View Court  
Rye Brook, NY 10573

EPA Reg. No. 92044-  
EPA Est. No.  
Net Weight Gal ( L)  
Lot No. see container

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**WARNING**

Causes substantial but temporary eye injury. Harmful if absorbed through skin. **DO NOT** get in eyes or on clothing. Avoid contact with skin. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators and all others who handle this pesticide must wear:**

- Wear protective eyewear (goggles, face shield or safety glasses)
- Long-sleeved shirt and long pants
- Chemical resistant gloves including nitrile rubber, butyl rubber, neoprene rubber, and/or barrier laminate
- Shoes plus socks

**USER SAFETY REQUIREMENTS**

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exists, use detergent and hot water. Keep and wash PPE separately from other laundry.

**ENGINEERING CONTROL STATEMENT**

Pilots must use an enclosed cab that meets the definition listed in the Worker Protection Standard for agricultural pesticides [40 CFR 170.305].

**USER SAFETY RECOMMENDATIONS**

--Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

--Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

**NONTARGET ORGANISMS ADVISORY**

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

**GROUND WATER ADVISORY**

This chemical is known to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground- water contamination.

**SURFACE WATER ADVISORY**

Surface water contamination may occur in areas with poorly draining soils and little or no buffers or in areas where drainage systems flow directly to surface water. **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 when disposing of equipment washwaters and rinsate.

**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.

Read entire label before using this product.

**Chemigation:** **DO NOT** use this product through any type of irrigation system.

### 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 REI of 12 hours.

For early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, including plants, soil, or water, wear: coveralls, chemical resistant gloves, shoes and socks.

### 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.

### STORAGE AND DISPOSAL

**DO NOT** contaminate water, food or feed by storage or disposal.

**STORAGE:** Store in a dry location away from children, animals, foods, feeds, seeds, or other agricultural chemicals. Store at temperatures greater than 20°F. Keep container closed when not using. Keep storage area locked when not in use. In the event of spillage or leakage, soak up material with absorbent clay, sand, sawdust, or other absorbent material. Scrape up and dispose of in accordance with information given under PESTICIDE DISPOSAL. Repackage and relabel useable product in a sound container.

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

#### CONTAINER HANDLING

{Note to reviewer: the final label will contain one of the following Container Handling instructions.}

**[Nonrefillable container equal to or less than 5 gallons.** Nonrefillable container. **DO NOT** reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ 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. Then offer for recycling or reconditioning, 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.]

**[Nonrefillable container greater than 5 gallons.** Nonrefillable container. **DO NOT** reuse or refill this container. Triple rinse or pressure 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 ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration.]

**[Refillable container.** Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Return to point of sale. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved state and local authorities.]

## WEED RESISTANCE MANAGEMENT

For resistance management, CAC Asulam 400 Herbicide is a Group 18 herbicide. Any weed population may contain or develop plants naturally resistant to CAC Asulam 400 Herbicide and other Group 18 herbicides. Weed species with acquired resistance to Group 18 herbicides may eventually dominate the weed population if Group 18 herbicides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by CAC Asulam 400 Herbicide or other Group 18 herbicides. Follow appropriate resistance management strategies.

To delay herbicide resistance:

- Avoid the consecutive use of CAC Asulam 400 Herbicide or other target site of action Group 18 herbicides that might have a similar target site of action, on the same weed species.
- Use tank mixtures or premixes with herbicides from different target site of action Groups as long as the involved products are all registered for the same use, have different sites of action and are both effective at the tank mix or prepack rate on the weed(s) of concern (an herbicide mode of action classification by itself may not adequately address specific weeds that are resistant to specific herbicides)
- Base herbicide use on a comprehensive Integrated Pest Management (IPM) program.
- Scout fields prior to application to identify the weed species present and their growth state to determine if the intended application will be effective.
- Scout fields after application to verify that the treatment was effective.
- Contact your local extension specialist, certified crop advisors and/or manufacturer for herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes.

Suspected herbicide-resistant weeds may be identified by these indicators:

- Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
- A spreading patch of non-controlled plants of a particular weed species; and
- Surviving plants mixed with controlled individuals of the same species.

Report any incidence of non-performance of this product against a particular weed species to your CAC Chemical Americas, LLC retailer, representative or call CAC Chemical Americas, LLC. If resistance is suspected, treat weed escapes with an herbicide having a different mechanism of action and/or use non-chemicals means to remove escapes, as practical, with the goal of preventing further seed production.

## MANDATORY SPRAY DRIFT

### Ground Boom Applications

- Apply with the release height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to use a Medium or coarser droplet size (ASABE S572.1).
- **DO NOT** apply when wind speeds exceed 15 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

### Aerial Applications

- **DO NOT** release spray at a height greater than 10 feet above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to use a Medium or coarser droplet size (ASABE S572.1).
- Applicators must use 1/2 swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- **DO NOT** apply when wind speeds exceed 15 mph at the application site. If the windspeed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- **DO NOT** apply during temperature inversions.

## **Spray Drift Advisories**

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.  
BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

### **IMPORTANCE OF DROPLET SIZE**

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

#### **Controlling Droplet Size — Ground Boom**

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

#### **Controlling Droplet Size — Aircraft**

Adjust Nozzles - Follow nozzle manufacturers recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

#### **BOOM HEIGHT — Ground Boom**

For ground equipment, the boom should remain level with the crop and have minimal bounce.

#### **RELEASE HEIGHT - Aircraft**

Higher release heights increase the potential for spray drift.

### **SHIELDED SPRAYERS**

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

### **TEMPERATURE AND HUMIDITY**

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

### **TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or 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 an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

### **WIND**

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.



## SUGARCANE

### RESTRICTIONS:

- **DO NOT** rotate to any crop which is not registered for use with products containing asulam for one year following the last application of this product.
- **DO NOT** graze or feed sugarcane fodder and forage to livestock.
- **DO NOT** apply more than 8 pints (3.3 lb AI) per acre per application.
- **DO NOT** apply more than 16 pints (6.6 lb AI) per acre per year.
- If a second application is required, **DO NOT** apply sooner than 28 days after the first application.
- **DO NOT** apply more than two applications per year.
- **DO NOT** harvest sugarcane within the following number of days after application: 140 days in mainland USA (excluding Louisiana), 100 days in Louisiana and 400 days in Hawaii.

### PRECAUTIONS

- Cover crops may be planted if they are plowed under and not grazed; otherwise, **DO NOT** plant crops other than sugarcane in treated areas.
- Apply CAC Asulam 400 when weeds are actively growing and to plant cane or to cane grown from stubble.
- Differences in crop tolerance to asulam among sugarcane varieties have been reported in Louisiana. Contact your local County Agent or University Extension Specialist for further information.

### RATES:

The rates in the tables below are for broadcast application.

**Ground Application:** Apply as a water mix spray in 15-100 gallons of water per acre.

**Aerial Application:** Apply as a water mix spray in 3-5 gallons of water per acre; in Hawaii, use 5-10 gallons per acre.

**Banded Application:** Reduce rates according to the following formula:

$\frac{\text{band width (inches)}}{\text{row width (inches)}} \times \text{broadcast rate per acre} = \text{banded rate per acre.}$

**Spot Treatment:** Apply a 5% v/v CAC Asulam 400 spray (1 gal. per 20 gals. of water) but not exceeding a rate of 8 pints (3.3 lb asulam) of the concentrated herbicide per acre.

Addition of an adjuvant approved for use on growing crops to the water mix spray will improve weed control when environmental conditions are not optimal. A nonionic surfactant of at least 80% active ingredient can be added at a rate of 1-2 quarts per 100 gallons of spray mix (0.25%-0.5% by volume). Alternatively, a crop oil concentrate containing 80-85% paraffinic oil and 15-20% nonionic surfactant can be added at a rate of 4 quarts per 100 gallons (1% by vol.) of spray mix. When an adjuvant is to be used with this product, CAC Chemical Americas, LLC advises the use of a Chemical Producers and Distributors Association certified adjuvant.

FIRST APPLICATIONS PER YEAR		
WEED SPECIES	RATE, PINTS/ACRE (LB ASULAM/A)	SPECIAL INSTRUCTIONS
Raoulgrass or itchgrass ( <i>Rottboellia exaltata</i> )	8 (3.3)	Apply with a surfactant when the grass is not more than 8 inches tall
Johnsongrass ( <i>Sorghum halepense</i> )	8 (3.3)	Apply when the grass is 12-18 inches tall. Johnsongrass must be actively growing and the average air temperature must be at least 60°F or higher.
Paragrass or Californiagrass ( <i>Brachiaria mutica</i> or <i>Panicum purpurascens</i> )	8 (3.3)	Apply when the grass is no more than 6-8 inches tall.
Crabgrass ( <i>Digitaria spp.</i> )	6-8 (2.48-3.3)	Use the lower rate if the grass is no more than 6-8 inches tall and the higher rate if more than 8 inches tall.
Alexandergrass ( <i>Brachiaria plantaginea</i> ) Barnyardgrass ( <i>Echinochloa crusgalli</i> ) Broadleaf panicum ( <i>Panicum adspersum</i> ) Foxtail ( <i>Setaria spp.</i> ) Goosegrass ( <i>Eleusine indica</i> )	6-8 (2.48-3.3)	Use the lower rate if the grass is no more than 6-8 inches tall and the higher rate if more than 8 inches tall.



### SECOND APPLICATION PER YEAR

A second application may be made 4 to 10 weeks after the first application if needed to control weeds prior to closure of the planted sugarcane. (Use in heavy weed infestations or re-infestation or where weed species germinate at different times in the same growing season)

WEED SPECIES	RATE, PINTS/ACRE (LB ASULAM/A)	SPECIAL INSTRUCTIONS
Crabgrass ( <i>Digitaria spp.</i> )	6-8 (2.48-3.3)	Apply before seed head formation. Use the lower rate when crabgrass is less than 6 inches high, and the higher rate from 6 inches to the start of head formation.
Raoulgrass or itchgrass ( <i>Rottboellia exaltata</i> )	8 (3.3)	Apply with a surfactant when the grass is no more than 12 inches tall.
Johnsongrass ( <i>Sorghum halepense</i> )	8 (3.3)	Apply when the grass is 18–24 inches tall.

### NON-CROPLAND USES

For use as a post-emergent treatment to control weeds in areas including: Boundary fences and fence rows; ditch banks; highway, pipeline and roadside rights-of-way; lumberyards; railroad and utility rights-of-way and yards; industrial plant sites; storage areas; and warehouse lots.

Apply by ground spray at a rate of 7-8 pints (2.9-3.3 lb asulam) in 20-100 gallons of water per acre with a nonionic surfactant at a rate of 0.25% by volume.

#### Restrictions

Aerial application is prohibited.

**DO NOT** apply more than one application per year.

**DO NOT** apply more than 8 pints (3.3 lb AI) per acre per year.

**DO NOT** apply more than 8 pints (3.3 lb AI) per acre per application.

WEED SPECIES	RATE, PINTS/ACRE (LB ASULAM/A)	SPECIAL INSTRUCTIONS
Crabgrass ( <i>Digitaria spp.</i> )	8 (3.3)	Apply before the grass reaches seed head formation.
Johnsongrass ( <i>Sorghum halepense</i> )	8 (3.3)	Apply when the grass is at least 18 inches tall. As a spot treatment in Hawaii, apply in 50 gallons of spray mixture per acre.
Paragrass or Californiagrass ( <i>Brachiaria mutica</i> or <i>Panicum purpurascens</i> )	8 (3.3)	Apply before seed head formation. As a spot treatment in Hawaii, apply in 50 gallons of spray mixture per acre.
Western bracken ( <i>Pteridium aquilinum</i> var. <i>pubescens</i> )	7-8 (2.9-3.3)	Apply when the fern is in full frond. Use the higher rate in heavy infestations.

### CHRISTMAS TREES

For use as a post-emergent treatment on Douglas fir, Grand fir, Nobel fir, or Scotch pine plantings for Christmas trees. **DO NOT** graze or feed forage from treated areas to livestock.

Apply by ground spray at a rate of 8 pints (3.3 lb asulam) in a minimum of 20 gallons of water per acre for ground application. Spray at a rate of 1 gallon of solution per acre (without a surfactant) after bud-break and hardening of new tree growth to control western bracken (*Pteridium aquilinum* var. *pubescens*), which must be in full frond.

#### Restrictions

Aerial application is prohibited.

**DO NOT** apply more than one application per year.

**DO NOT** apply more than 8 pints/acre (3.3 lb asulam/acre) per application.

**DO NOT** apply more than 8 pints (3.3 lb AI) per acre per year.

## **ORNAMENTAL SHRUBS**

Broadcast apply as a post-emergent treatment, without a surfactant, at a rate of 8 pints (3.3 lb asulam) in 20 gallons of water per acre to the following species of junipers and yews:

*Juniperus andorra*  
*J. chinensis*  
*J. conferta*  
*J. horizontalis*  
*J. litoralis*

*J. sabina*  
*Taxus cuspidata*  
*T. media*  
*Pondocarpus macrophyllus*

To control:

Barnyardgrass (*Echinochloa crusgalli*)  
Fall Panicum (*Panicum dichotomiflorum*)  
Goosegrass (*Eleusine indica*)

Crabgrass (*Digitaria spp.*)  
Foxtail (*Setaria spp.*)  
Horseweed or Mare's tail (*Conyza canadensis*)

Apply when the weeds are between the stages of early seedling and early seedhead formation.

### **Restrictions**

Aerial application is prohibited.

**DO NOT** apply more than one application per year.

**DO NOT** apply more than 8 pints/acre (3.3 lb asulam/acre) per application.

**DO NOT** apply more than 8 pints (3.3 lb AI) per acre per year.

## **TURF (FOR SOD FARM USE ONLY)**

**All turf grasses except for St. Augustinegrass and Tifway 419 Bermudagrass – DO NOT** apply more than 8 pints per acre per year (3.3 lb asulam per acre per year) to turf.

**St. Augustinegrass and Tifway 419 Bermudagrass Sod Farm Use** - Apply 5 pints per year (2.2 lb asulam per year) without a surfactant in 20-50 gallons of water per acre (1 pint in 4-10 gallons per 5,445 square feet) to St. Augustinegrass or Tifway 419 Bermudagrass. **DO NOT** apply to turf under stress or freshly mowed.

To control:

Bullgrass (*Paspalum supinum*)  
Crabgrass (*Digitaria spp.*)  
Goosegrass (*Eleusine indica*)  
Sandbur (*Cenchrus spp.*)

### **Restrictions**

Aerial application is prohibited.

**DO NOT** apply more than one application per year.

**DO NOT** apply more than 8 pints/acre (3.3 lb asulam/acre) per application.

**DO NOT** apply more than 8 pints (3.3 lb AI) per acre per year.

## **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. To the extent consistent with applicable law, 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 CAC Chemical Americas LLC ("CAC"), 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. CAC 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 CAC, and is subject to the inherent risks described above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, CAC DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, CAC, 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 CAC 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 CAC, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT CAC'S ELECTION, THE REPLACEMENT OF THE PRODUCT.

[EPA Approval date]