FEB 1 2 1997

Mr. Don O'Shaughnessy Riverside/Terra Corporation P.O. Box 6000 Sioux City, Iowa 58802-6000

Dear Mr. O'Shaughnessy

Subject: Riverside Asulam 3.3 Herbicide EPA Registration No. 9779-342

Applications Dated November 25, 1996 and December 11, 1996, Request to Delete the Claim "Do not rotate to any crop which is not registered for use with products containing asulam for I year following the last application of this product"

The proposed subject amendment described in your applications and your letters dated November 25, 1996, December 4, 1996, January 29, 1997 and February 6, 1997 has been reviewed and found acceptable under Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) as amended, provided that you:

- Delete the examples of nonionic surfactant and crop oil concentrate, "(e.g. RIVERSIDE ACTIVATE PLUS)" and "(e.g. RIVERSIDE Prime oil, RIVERSIDE COC)", respectively, under Sugarcane Rates, Spot Treatment.
- 2. The NOTICE, on page 7, is not identical to that of the product you are repackaging. It must read the same as that on the product label of the product you are repackaging.
- 3. Submit one (1) copy of the final printed label before you release the product for shipment under the subject labeling.

CONCURRENCES								
SYMBOL								
SURNAME								
DATE								

EPA Form 1320-1 (12-70)

OFFICIAL FILE COPY

If these conditions are not complied with, the registration will be subject to cancellation in accordance with PIFRA, Section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the proposed label is enclosed for your records.

Sincerely yours,

Joanne I. Miller Product Manager (23) Fungicide-Herbicide Branch Registration Division (7505C)

Enclosure (1)

E.Wilson: Diskette ABC 32:02-12-97

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Riverside® Asulam 3.3 Herbicide

ACTIVE INGREDIENT	
Sodium salt of asulam (methyl sulfanilylcarbamate	e)*36.2%
INERT INGREDIENTS	
Total	53.8% 53.8%
· ptd:	100,009

KEEP OUT OF REACH OF CHILDREN

CAUTION

STOP -- READ LABEL BEFORE USING

Spray Drift:

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

- The distance of the outermost nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
- Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information.

ACCEPTED with COMMENTS In EPA Letter Dated

FEB 1 2 1997

EPA Reg. No. 9779-342

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

Manufactured For RIVERSIDE/TERRA CORP. P.O. Box 6000, Sioux City, Iowa 51102-6000 Riverside Serves Agriculture, Agriculture Serves Everyone. EPA Estable, NET CONTENTS,

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

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Flush with plenty of clean running water for 15 minutes. Get medical attention if irritation persists.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching the back of the throat with a finger. If a person is unconscious do not give anything by mouth and do not induce vomiting.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Wash thoroughly with scap and water after handling. Remove contaminated clothing and launder before reuse. Heavily contaminated clothing should be removed immediately and incinerated or burned if allowed by State Authorities, or disposed of in a sanitary landfill, and should not be laundered.

Personal Protective Equipment:

Applicators and other handlers must wear the following Personal Protective Equipment: coveralls, chemical-resistant gloves, shoes and 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.

Engineering Controls Statement:

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170 240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS. However, full PPE must be available in the event that the handler exits the aircraft, enclosed cab, etc., prior to the REI.

USER SAFETY STATEMENTS

Users must wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users must leave the treated area, and remove clothing immediately if pesticide gets inside. Users must remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Wash the outside of gloves before removing.

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. Do not apply when weather conditions favor drift from target area. Do not contaminate water when disposing of equipment washwaters and rinsate.

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 'h'ardas', where drainage systems flow directly to surface water.

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.

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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 restricted entry interval (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, such as 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 tocked 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. In case of tire or other emergency, report at once by toil-free telephone to (800)424-9300.

DISPOSAL

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). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities, such as burning. If burned, stay out of smoke.

SPRAY DRIFT ADVISORY

Information on Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. 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).

Controlling Droplet Size

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of nozzles Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other
 orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift
 potential.
- 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. Solid stream nozzles oriented straight back produce the largest
 droplets and the lowest drift.

Boon: Length

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

Application Height

Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

Swath Adjustment

When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

Wind

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift,

Temperature and Humidity

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sur/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 it a movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally into concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertically air mixing.

Sensitive Areas

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

SUGARCANE:

RESTRICTIONS AND PRECAUTIONS:

Cover crops may be planted if they are plowed under and not grazed; otherwise, do not plant crops other than sugar cane in treated areas. Do not treat sugarcane within 90 days of harvest. Do not graze or feed sugarcane fodder and forage to livestock.

Riverside Asulam 3.3 Herbicide may be applied to plant cane or to cane grown from stubble when weeds are actively growing.

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 according to local requirements.

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:

band width (inches)/row width (inches) X broadcast rate per acre = banded rate per acre.

Spot Treatment: Apply 6 - 12 pints in 100 gallons water at a rate of 50 gallons of spray mixture per acre, not exceeding a rate of 8 pints 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 nonlonic surfactant of at least 80% active ingredient (e.g., RIVERSIDE ACTIVATE PLUS) 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 (e.g. RIVERSIDE Prime oil, RIVERSIDE COC) containing 80 - 85% paraffinic oil and 15 - 20% nonlonic surfactant can be added at a rate of 4 quarts per 100 gallons (1% by vol.) of spray mix.

SINGL	E APPLICATION PER SE	ASON .	
WEED SPECIES	RATE (PINTS/ACRE)	SPECIAL INSTRUCTIONS	
Raoulgrass or itchgrass (Rottboellia exaltata)	8	Apply with a surfactant when the grass is not more than 8 inches tail Apply when the grass is 12 - 18 inches tail. Johnsongrass should be actively growing and the average air temperature should be at least 60°F or higher.	
Johnsongrass (Sorghum halepense)			
Paragrass or Californiagrass (Brachiaria mutica or Panicum purpurascens)		Apply when the grass is no more than 6 - 8 inches tall	
Crabgrass (Digitaria spp.)	6-8	Use the lower rate prior to seed head formation and the higher rate after heading.	
Alexandergrass (Brachiaria plantaginea) Barnyardgrass (Echinochloa crusgalli) Broadleaf panicum (Panicum adspersum) Foxtail (Setaria spp.) Goosegrass (Eleusine indica)		Use the lower rate if the grass is no more than 6 - 8 inches tall and the iligher rate if more than 8 inches tall.	

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	TWO APPLICATIONS PER ESTATIONS OR RE-INFESTATION (DIFFERENT TIMES IN THE SAME GR	OR WHERE WEED SPECIES GERMINATE AT
WEED SPECIES	RATE FOR EACH APPLICATION (PINTS/ACRE)	SPECIAL INSTRUCTIONS
Crabgrass (Digitaria spp.)	6-8	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 (Rottboellia exaltata)	8	Apply with a surfactant when the grass is no more than 12 inches tall.
Johnsongrass (Sorghum halepense)		Apply when the grass is 18 - 24 inches tall.

NON-CROPLAND USES

For use in areas such as:

boundary fences and fence rows; ditch banks; highway, pipeiine and roadside rights-of-way; lumberyards; railroad and utility rights-of-way and yards; industrial plant sites; storage areas; and warehouse lots.

Aerial application is prohibited.

Apply by ground spray using 20 - 100 gallons of solution per acre with a nonionic surfactant at a rate of 0.25% by volume.

MAXIMUM RATE: 1 gal/acre limited to one application per year.

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

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CHRISTMAS TREES

For use 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.

MAXIMUM RATE: 1 gal/acre limited to one application per year.

Apply a minimum 20 gallons of solution per acre for ground application. Aerial application is prohibited.

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 should be in full frond.

ORNAMENTAL SHRUBS

MAXIMUM RATE: 1 gal/acre limited to one application per year. Broadcast apply without a surfactant at a rate of 1 gallon in 20 gallons of water per acre to the following species of junipers and yews during post emergence:

J. chinensis

Juniperus andorra

J. conferta

Taxus cuspidata

J horizontalis

T. media

J. sabina

J. litoralis

Pondocarpus macrophyllus

To control:

மனிyardgrass (Echinochloa crusgalli)

Crabgrass (Digitaria spp.)

Fall Panicum (Panicum dichotomiflorum)

Hoxtail (Setaria spp.)

Googgess (Eleusine indica)

Horseweed or Mare's tail (Conyza canadensis)

TURF (FOR SOD FARM USE ONLY)

Apply without a surfactant at a rate of 5 pints in 20 - 50 gallons of water per acre (1 pint in 4 - 10 gallons per 8700 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.)

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, or after. Neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this profitict contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to Seller, and Euryer'assumes the fisk of any such use.