

U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs Registration Division (7505P) **Ariel Rios Building** 1200 Pennsylvania Ave., NW Washington, D.C. 20460

FPA	Reg	Num	nei

Date of Issuance:

82534-2

Term of Issuance:

Name of Pesticide Product:

Acifluorfen 2L

NOTICE OF PESTICIDE:

x Registration Reregistration (under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Summit Agro North America Holding Corp. c/o Pyxis Regulatory Consulting, Inc. 4110 136th St. 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/reregistered 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 registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

- 1. Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data.
- 2. Submit within one year of the date of this registration notice, storage stability (830.6317) and corrosion characteristics (830.6320) studies.
- 3. Make the following label changes:
 - a. On page 17, under the heading "Limitation of Warranty and Liability", change the last sentence on that page to read "To the extent allowed by applicable law, all such risks shall be assumed by the user or buyer
 - b. Revise the EPA Registration Number to read, "EPA Reg. No. 82534-2", and include the Establishment Number."

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

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

Signature of Approving Official:

Kathryn V. Montague Product Manager 23

Herbicide Branch

Registration Division (7505P

Date:

MAR 27 2012

GROUP 14	HERBICIDE
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Acifluorfen 2L

For use on peanuts, rice, soybeans and strawberries

ACCEPTED with COMMENTS In EPA Letter Dated:

MAR 27 2012

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

8 2534-2

ACTIVE INGREDIENT:	22.40/
Sodium salt of acifluorfen*	
OTHER INGREDIENTS:	<u>79.9%</u>
TOTAL:	100.0%

*Equivalent to 2 pounds of active ingredient per gallon.

DANGER/PELIGRO

Si usted no entienda la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

	FIRST AID
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 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 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.
IF INHALED:	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. HOT LINE NUMBER
I I the second contract	
treatment. You may	ntainer or label with you when calling a poison control center or doctor, or going for also contact Chemtrec at 1-800-424-9300 for emergency medical information.
	AN: Probable mucosal damage may contraindicate the use of gastric lavage. cific antidote is available. Treat symptomatically.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

Corrosive. Causes irreversible eye damage. Harmful if swallowed or absorbed through the skin, or inhaled. Do not get in eyes or on clothing. Avoid contact with skin and breathing vapor or spray mist.

Manufactured for: Summit Agro North America Holding Corp. 600 Third Ave. New York, NY 10016

EPA Reg. No. 82534-

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NET CONTENTS: ____GALS

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are made of any waterproof material. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart.

Mixers, Loaders and Applicators must wear:

- · Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves
- Goggles or face shield

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not re-use them.

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

Engineering Controls Statement

When handlers use closed systems, enclosed cabs, or cockpits 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.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash thoroughly with soap and water after handing and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark, except as specified on this label for application to rice. Do not contaminate water when disposing of equipment washwaters. Do not apply when weather conditions favor drift from target area.

GROUND WATER ADVISORY

Sodium acifluorfen is known to leach through soil to groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable (sandy/loamy soils) and water tables are shallow could result in contamination of groundwater. Use of irrigated water in such areas will increase the likelihood of groundwater contamination.

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 people, either directly or through drift. Only handlers wearing PPE may be in the treatment area during application. For any requirements specific to your State or Tribe consult the agency responsible for pesticide regulation. This pesticide is toxic to vascular plants and should be used strictly in accordance with the drift and run-off precautions on this label to minimize off-site exposures. All applicable directions, restrictions, precautions and Limitationof Warranty and Liability are to be followed. This labeling must be in the user's possession during application.

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 48 hours.

The following PPE is required for early entry into 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

- Coveralls over long sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- · Chemical-resistant footwear plus socks
- Chemical-resistant headgear if overhead exposure
- Protective eyewear

Notify workers of pesticide application by warning them orally and by posting warning signs at entrances to treated areas.

PRODUCT INFORMATION

Acifluorfen 2L is for postemergence control of listed grasses and broadleaf weed species in strawberries, rice, soybeans and peanuts.

Crop Tolerance

Acifluorfen 2L is a selective herbicide and the crops listed in this label are tolerant of this product at all growth stages listed. Crops may display leaf speckling following treatment with Acifluorfen 2L, but this is a temporary condition and plants will typically outgrow it within 10 days. Treatment with this product will not affect crop vigor or new growth.

Cleaning Application Equipment

Clean spray equipment with commercial spray cleaner or a strong detergent, following the manufacturer's directions. Triple rinse application equipment before making an application with Acifluorfen 2L and following treatment with Acifluorfen 2L.

APPLICATION INSTRUCTIONS

Apply Acifluorfen 2L at the following rates, unless directions differ in the Crop-Specific Information section (below). Apply this product as a broadcast application or an aerial banding application to weeds that are actively growing at the growth stages and rates specified in Table 1 below (rice and strawberries) and in the Crop-Specific Information section (peanuts and soybeans).

For best results and the most effective control, apply Acifluorfen 2L during early postemergence, when weeds are small. Early postemergence treatment allows application at the lower use rate (dependent on species of weeds present). Early application to weeds also facilitates thorough spray coverage. If application of this product is delayed, weed species may exceed the growth stage specified in this label which will hinder adequate control.

Irrigated Areas

Irrigation prior to treatment may be necessary in order to ensure weeds are actively growing. Treatment of weed species under drought conditions may lead to inadequate control.

Spray Coverage

For effective control, target weeds must be covered thoroughly with this product. Applicators must use a sufficient spray volume to ensure proper coverage, bearing in mind that leaf canopies that are dense may shelter smaller weeds, preventing sufficient spray coverage.

Cultivation

Do not cultivate treated areas within 5 days prior to treatment with Acifluorfen 2L, or 7 days following treatment.

Aerial Application

When treating with Acifluorfen 2L as an aerial application, use 10 gallons per acre of water, minimum. Where sufficient coverage can be achieved, a volume of 5 gallons per acre of water (minimum) has been effective.

Application Equipment

Apply Acifluorfen 2L at a spray pressure of up to 40 psi using diaphragm-type nozzles that create fan spray or cone patterns.

IMPORTANT: For best coverage and in order to avoid drift, refer to the Spray Drift Management section below.

Ground (Banding) Applications

For band applications, also refer to the Ground Application Equipment and Methods of Application (Broadcast) instructions below. Applicators using row banding equipment must ensure the most thorough coverage of target weeds in the row. It is not recommended that a single nozzle be used for application over the row. For thorough coverage, direct two nozzles from either side of the crop row toward the weeds located in the center rows. Apply this product with a band width of 15 inches and with 15 gallons of water per acre (minimum) on the band. Application with a single nozzle over the row is not recommended.

Ground Application Equipment and Methods of Application (Broadcast)

Application Equipment

Apply Acifluorfen 2L with hollow cone nozzles spaced a maximum of 20 inches apart or use a standard high-pressure pesticide flat fan. Inconsistent coverage may cause variable weed control, therefore do not make applications with whirl chamber, flood or controlled droplet applicator (CDA) nozzles. Do not make applications with wiper applicators or recirculating sprayers (i.e. selective application equipment).

Water Volume

For best results, apply Acifluorfen 2L in 10-20 gallons per broadcast acre of spray solution. If weed foliage or crop foliage is dense, increase water volume up to 50 gallons. When treating strawberries with this product, use 20-40 gallons per broadcast acre of spray solution.

Spray Pressure

Apply Acifluorfen 2L using spray equipment at a minimum of 40 psi. IMPORTANT: spray pressure is measured at the boom, not in the line or at the pump.

For best results, use a minimum spray pressure of 60 psi when weed/crop foliage is dense or where there is a low volume of water (i.e., 10 gallons per acre).

SPRAY DRIFT MANAGEMENT

Use best practices to avoid drift to all other crops and non-target areas. Do not apply when conditions favor drift from target areas. The interaction of many equipment and weather-related factors determine the potential for spray drift. Avoiding spray drift at the application site is the responsibility of the applicator. The applicator must follow the most restrictive use precautions to avoid drift, including those found in this labeling as well as applicable state and local regulations and ordinances. A drift control agent may reduce drift, however, it may also decrease weed control.

Requirements for ground applications:

For ground applications, adjust nozzle height and droplet size with wind speed according to the following table:

Wind Speed	Nozzle Height	Droplet size for standard nozzles (ASAE standard 572)
Less than 10 mph	Up to 2 feet	Medium or coarser
	2-4 feet	Coarse or coarser
	4-6 feet	Very coarse or coarser

10 to 15 mph	0-2 feet	Coarse or coarser
	2-4 feet	Very coarser or coarser
	4-6 feet	Extremely coarse
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Do not apply when the wind speed exceeds 15 miles per hour. Do not apply at a nozzle height of greater than 6 feet above the ground or crop canopy. Apply as a medium or coarser spray (ASAE standard 572).

Requirements for aerial applications:

For aerial applications, apply only when the wind speed is less than or equal to 15 miles per hour using a release height of no more than 10 feet above the ground or crop canopy. If the wind speed is less than 10 mph, apply as a medium or coarser spray (ASAE standard 572). If the wind speed is between 10 mph and 15 mph, apply as a coarse or coarser spray (ASAE standard 572). The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter. Do not make aerial applications into temperature inversions. When aerial applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

Table 1: Application Rates for Acifluorfen 2L - Peanuts and Soybeans

For rate and growth stage instructions for rice, refer to the Crop-Specific Information (below). Weed height given below is for guidance purposes only. Weed height is dependent on environmental conditions: in using the following table, emphasis should be placed on leaf stages as an indicator of growth stage. For more information, refer to the Additives section.

	Rate of Acifluorfen 2L per acre						
	0.5 pint		1.0 pint		1.5 pints		
Weeds Species Controlled ¹	Growth Stage ²	Maximum Height (in inches)	Growth Stage ²	Maximum Height (in inches)	Growth Height (in inches)		
Balloonvine			7	10000	Up to 2 leaves	2"	
Beggarweed, Florida	-		-	- 10	Up to 2 leaves	Less than 2"3	
Buckwheat, Wild		esc Hi sec	-		Up to 2 leaves	2"3	
Buffalobur			-	-	Up to 2 leaves	2"3	
Burgherkin		-	In		Up to 2 leaves	2"3	
Carpetweed		We to	Multi 3" diameter	Less than 2"	Multi 6" diameter	2"	
Citron (Wild Watermelon)			-	-	Up to 2 leaves	2"3	
Cocklebur		-	-		Up to 2 leaves	2"	
Copperleaf, Hophorn beam		-	2 leaves	2"	Up to 4 leaves	4"	
Copperleaf, Virginia			-		Up to 2 leaves	2"	
Crotolaria, Showy		2 8 -	6 leaves	6"3	Up to 6 leaves	6"3	
Croton, Tropic	4 1 5 5		1-2 leaves	Less than 2"	Up to 2 leaves	2"	
Croton, Wooly			1-2 leaves	Less than 2"	Up to 2 leaves	2"	
Crownbeard, Golden	•	-	-		Up to 2 leaves	Less than 2"	
Eclipta		-	-		Up to 6 leaves	Less than 2"	
Galinsoga, Hairy		-	-		Up to 4 leaves	Less than 2"	
Galinsoga, Smallflower		-		-	Up to 4 leaves	Less than	

	-	E mint		fen 2L per acre		minto
	0.	5 pint	1.0	pint	1.5	pints
Weeds Species Controlled ¹	Growth Stage ²	Maximum Height (in inches)	Growth Stage ²	Maximum Height (in inches)	Growth Stage ²	Maximum Height (in inches
Groundcherry, Cutleaf			-	- 1	Up to 2 leaves	1"
Groundcherry, Lanceleaf		139		-	Up to 2 leaves	1"
Indigo, Hairy			- 56	-	Up to 3	Less than 2"
Jimsonweed	77.		4 leaves	4"	Up to 6 leaves	6"
Ladysthumb	-		4 leaves	4"	Up to 6 leaves	6"
Lambsquarters, Common⁴		10. 1		-	Up to 2 leaves	2"
Morningglory, Cypressvine		A-Z	2 leaves	2"	Up to 4 leaves	4"
Morningglory, Entireleaf		-	2 leaves	2"	Up to 4 leaves	4"
Morningglory, lvyleaf		-	2 leaves	2"	Up to 4 leaves	4"
Morningglory, Purple	V. V.	-	2 leaves	2"	Up to 4 leaves	4"
Moonflower, Scarlet		-	2 leaves	2"	Up to 4 leaves	4"
Moonflower, Smallflower	7.0	-	2 leaves	2"	Up to 4 leaves	4"
Moonflower, Small White (pitted)	7.6	-	2 leaves	2"	Up to 4 leaves	4"
Moonflower, Tall (common)	4 * - 1		2 leaves	2"	Up to 4 leaves	4"
Moonflower, Willowleaf (Palmleaf)	-	- 1	2 leaves	2"	Up to 4 leaves	4"
Mustard, Wild	Up to 2 leaves	2"	4 leaves	Less than 4"	Up to 4 leaves	4"
Nightshade, Eastern Black			2-3 leaves	Less than 2"	Up to 6 leaves	2"
Nightshade, Black			2-3 leaves	Less than 2"	6 leaves	2"
Pigweed, Palmer	Up to 4 leaves	Less than 2"	6 leaves	Less than 4"	Up to 6 leaves	4"
Pigweed, Prostrate	-		-		Up to 4 leaves	4"
Pigweed, Redroot	Up to 4 leaves	Less than 2"	6 leaves	Less than 4"	Up to 6 leaves	4"
Pigweed, Smooth	Up to 4 leaves	Less than 2"	6 leaves	Less than 4"	Up to 6 leaves	4"
Pigweed, Spiny	-	-	2 leaves	Less than 2"	Up to 2 leaves	2"
Poinsettia, Wild			45	-	Up to 2 leaves	2"3
Poorjoe	-	-	-		Up to 2 leaves	2"
Purslane, Common		0 - ·			Multi 6" diameter	1"
Pusley, Florida	-	-	2 leaves	2"	Up to 4 leaves	4"
Ragweed, Common	1.02-		2 leaves	2"	Up to 4 leaves	3"
Ragweed, Giant	-		2 leaves	Less than 2"	Up to 2 leaves	3"
Senna, Coffee	216	-	-	- 156	Up to 2 leaves	2"3
Sesbania, Hemp			4 leaves	4"3	Up to 6	6"3
Smartweed, Pennsylvania	- 5	97	4 leaves	4"	Up to 6 leaves	6"

	Rate of Acifluorfen 2L per acre					
	0.	5 pint	1.0 pint		1.5 pints	
Weeds Species Controlled ¹	Growth Stage ²	Maximum Height (in inches)	Growth Stage ²	Maximum Height (in inches)	Growth Stage ²	Maximun Height (in inches
Smellmelon		-			Up to 2 leaves	2"3
Spurge, Prostrate					Multi 0.5" diameter	
Spurge, Spotted					Multi 0.5" diameter	-
Starbur, Bristly					Up to 2 leaves	2"3
Waterhemp, Common	Up to 4 leaves	Less than 2"	6 leaves	Less than 4"	Up to 6 leaves	4"
Waterhemp, Tall	Up to 4 leaves	Less than 2"	6 leaves	Less than 4"	Up to 6 leaves	4"
		Annual Grasses				
Foxtail, Giant ³		-		•	Up to 2 leaves	1"
Foxtail, Green ³		-			Up to 2 leaves	1"
Foxtail, Yellow ³					Up to 2 leaves	1"
Johnsongrass, Seedling ³					Up to 2 leaves	1"
Panicum, Fall ³				•	Up to 2 leaves	1"
Shattercane ³					Up to 2 leaves	1"
Volunteer Small Grains ³					Up to 2 leaves	1"

¹including ALS and triazine resistant biotypes

ADDITIONAL WEED PROBLEMS IN PEANUTS AND SOYBEANS: SPECIAL USE DIRECTIONS

For an effective application, ensure there is good soil moisture before and following treatment with spray equipment. Apply Acifluorfen 2L at a rate of 1.5 pints per acre with 2 pints of spray surfactant per 100 gallons of spray mix (unless otherwise stated) for the following target weed species:

Beggarweed, Florida

Florida Beggarweed has a long germination season making it difficult to control. Treat Florida Beggarweed with this product when seedling weeds are no higher than 1.5" with no more than 2 expanding young true leaves.

For best results, obtain maximum control of the earliest weed flush. Cultivation must be timed correctly so that the regrowth or secondary weed flushes are controlled.

This product will partially control and/or suppress Florida Beggarweed growing in high relative humidity or high soil moisture.

Buckwheat, Wild Buffalobur

Apply Acifluorfen 2L in 30 gallons of water per acre. Partial control may be achieved when wild buckwheat and buffalobur seedlings have less than 2 true leaves.

Cucurbits: Burgherkin
Citron (Wild Watermelon)
Smellmelon

²When assessing growth stage, count each leaf separately, do not count leaves as pairs. Do not count cotyledon leaves. Treating target species in the cotyledon stage of growth is not recommended.

³Refer to Special Use Directions (below).

⁴Partial control or suppression.

Control of the cucumber species with a single application is difficult because germination takes place over an extended period of time. In order to ensure an effective treatment with this product, make the initial application no later than at the 2-leaf stage of growth.

Morningglory

For consistent control of morningglory, treat with sequential applications using 1 pint of Acifluorfen 2L.

Poinsettia, Wild

Apply Acifluorfen 2L to Wild Poinsettia prior to the formation of the third true leaf. When applied at the directed rates, this product will usually severely stunt or kill wild poinsettia.

Application of Acifluorfen 2L will usually cause a differential in height between soybeans and poinsettia that have survived. The height differential will allow for directed applications, which may be undertaken for greater control.

Sesbania, Hemp Crotolaria, Showy

Effective control of Sesbania and Crotalaria can be achieved at almost any plant height because both weed species are very sensitive to applications of Acifluorfen 2L.

Apply this product prior to bloom but after maximum weed emergence at the rate of 1 pint acre. Treatments with Acifluorfen 2L made following bloom are usually not effective. Applicators must ensure that the crop canopy does not shade target weed species from spray applications. In order to control late season infestations of Sesbania, applicators may wait for the weed to break the crop canopy prior to treatment.

Senna, Coffee

Starbur, Bristly

In order to kill or suppress seedlings, apply Acifluorfen 2L at the directed rate to weeds that have not passed to 2-leaf growth stage. Treatment with this product made after the 2-leaf growth stage are usually ineffective.

Perennial Weeds

- Bindweed, Field and Hedge
- Milkweed, Climbing and Common
- · Redvine, Trumpetcreeper

Perennial weeds growing from underground rootstocks are difficult to control. This product will not kill underground rootstocks of these perennial weeds. Treat with this product in order to suppress regrowth and burn back plants that are above ground. Use the rate directed in Table 1 above combined with 2 to 4 pints of spray surfactant per 100 gallons of spray mix.

Annual Grasses

- Foxtail, Giant, Green and Yellow
- Johnsongrass, Seedling
- Panicum, Fall
- Shattercane

Acifluorfen 2L can be used for supplemental control of grasses in addition to a preplant incorporated or pre-emergence herbicide, but this product must not be the lone or basic product in any program for the control of annual grasses. Acifluorfen 2L will kill or suppress annual grasses that have not passed the 2-leaf growth stage.

Volunteer Small Grains

- Barley
- Oats
- Rye
- Wheat

Apply this product to emerging volunteer small grains which are at the 1 to 2 leaf growth stage in order to suppress or kill weeds.

19

ADDITIVES

In order to achieve consistent control with applications of Acifluorfen 2L, it must be combined with one of the following additives:

- ammonium sulfate (AMS)
- crop oil concentrate
- nonionic surfactant
- urea ammonium nitrate (UAN)

When the target weed is velvetleaf, AMS (or UAN) should be used as an additive.

The use of additives with Acifluorfen 2L may cause leaf burn. Leaf burn is more likely if air temperature and relative humidity are high. However, new growth will continue as normal and crop vigor will not be affected. Talk to the Summit Agro representative for your locality.

For Additive Options, see Table 2 below and see Table 3 for Additive Rates.

Nonionic Surfactant

The standard label direction is 1 to 2 pints of 80% active nonionic spray surfactant per 100 gallons of water. Use a higher spray surfactant rate for certain weeds.

Ammonium Sulfate (AMS) Fertilizer

AMS is a granular nitrogen-source, dry fertilizer which must only be used if it has been shown to work in the locality. Inferior grades of AMS will not adequately dissolve, therefore, only use spray grade or fine feed-grade AMS to ensure that spray nozzles do not get plugged.

Problems with precipitation may occur if AMS is applied in reduced volumes. Therefore, do not apply AMS in less than 10 gallons per acre.

Crop Oil Concentrate

The oil concentrate must contain either a petroleum or vegetable oil base and must meet all of the following criteria:

- be nonphytotoxic,
- · contain only EPA-exempt ingredients,
- · provide good mixing quality in the compatibility test, and
- be successful in local experience.

Suitable additive products will vary in composition. In order to provide good mixing properties, petroleum and vegetable oil concentrates should contain emulsifiers. Vegetable oils that have been highly refined have proven to be more successful additives than those that are unrefined. Refer to the Compatibility Test for Mix Components section below for more information.

Refer to your additive supplier for information concerning suitability for and success in the locality prior to acquiring an oil concentrate. Some oil concentrates cause excessive leaf burn.

UAN: Urea Ammonium Nitrate

UAN can be added to Acifluorfen 2L as a substitute for other spray additives in order to improve control of target weeds. UAN is often referred to as 28%, 30%, or 32% nitrogen solution. Most solutions containing nitrogen are mildly corrosive to metals such as galvanized, mild steel, and brass. Therefore, do not apply Acifluorfen 2L with UAN using aluminum or brass nozzles. Applicators must also ensure that application equipment is rinsed thoroughly with water immediately after use.

Temperature and Relative Humidity Effects

For the most effective use of adjuvants, if the combined relative humidity (expressed as a percentage) and temperature (in degrees Fahrenheit) is greater than exceed 150, use the lower rates for adjuvants in Table 2.

For example:

Temperature 80°F + relative humidity 80% = 160: use the specified lower adjuvant rates (Table 2)

Table 2 - Additive Options and Use Rates for Acifluorfen 2L Tank Mixes

	Additive	Use/Mix Rate
Option 1	AMS	2.5 pounds per acre
Option 2	UAN	4-8 pints per acre
Option 3	Nonionic Surfactant	1-2 pints per 100 gallons
Option 4	Crop Oil Concentrate	1-2 pints per acre
Option 5	Nonionic Surfactant and AMS	Nonionic surfactant (1-2 pints per 100 gallons) AMS (1-2 pounds per acre)
Option 6	Nonionic Surfactant and UAN	Nonionic surfactant (1-2 pints per 100 gallons) UAN (2-4 pints per acre)
Option 7	Crop Oil Concentrate and AMS	Crop Oil Concentrate (1 pint per acre) AMS (1-2 pounds per acre)
Option 8	Crop Oil Concentrate and UAN	Crop Oil Concentrate (1 pint per acre) UAN (2-4 pints per acre)

Table 3 - Additive Rate (Per Acre)

Additive	Air Application Rate	Ground Application Rate	
AMS Oil Concentrate UAN Solution	2.5 pounds per acre 1-2 pints per acre 4 pints per acre	2.5 pounds per acre 1-2 pints per acre 4-8 pints per acre	
Nonionic Surfactant	1-2 pints per 100 gallons	1-2 pints per 100 gallons	

MIXING INFORMATION

Acifluorfen 2L may be mixed with the following products. When tank mixing this product, read and follow the tank mix instructions in this label and in the label of the tank mix partner(s).

 Assure[®] II (quizalofop) Fusion[®] (fluazifop-p-butyl + • Raptor[®] (imazamox) fenoxaprop-p-ethyl) • Reliance® STS (thifensulfuron • Basagran® (bentazon) Glyphosate methyl + chlorimuron ethyl) • Lasso® 4E (alachlor) • Resource® (flumiclorac) • Cadre® (imazamethapyr) • Classic® (chlorimuron ethyl) Matador[®] (quizalofop) Sceptor[®] (imazaquin) • Concert® SP (thifensulfuron • Pinnacle® (thifensulfuron · Select® (clethodim) methyl+chlorimuron ethyl) methyl) • Dual® 8E (metolachlor) Poast[®] (sethoxydim) Skirmish[®] (chlorimuron ethyl) • Facet 75 DF (quinclorac) Poast® HC (sethoxydim) Synchrony[®] STS (thifensulfuron methyl + clorimuron ethyl) Poast[®] Plus (sethoxydim) • FirstRate® (chloransulam-• 2.4-DB methyl) • Stam® (propanil) • Frontier® 6.0 (dimethenamid) · 2,4-DB (preplant burndown only) Pursuit[®] (imazethapyr) Fusilade[®] DX (fluazifop-p-butyl)

Refer to the Crop-Specific Information section for further instructions. Applicators must read and follow the directions for use and all limitations and restrictions on the labels of all products in the tank mixture. The most restrictive label of those in the tank mix applies.

Take special care when mixing Acifluorfen 2L with other pesticides (herbicides, fungicides, miticides or insecticides), fertilizers or additives if they are not listed as tank mix partners on this labeling. Untested tank mixtures could result in physical incompatibility, crop injury or reduced weed control. Local agricultural authorities may be able to recommend additional tank mixtures.

Compatibility Test for Tank Mix Components

Before mixing components, always perform a compatibility jar test. For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust rates accordingly. Only use water from the intended source temperature.

Add components in the sequence indicated in **Mixing Order** using teaspoons for each pound or 1 teaspoon for each pint of label rate per acre. Always cap the jar and invert 10 cycles between component additions.

When the components have all been added to the jar, let the solution stand for 15 minutes. Evaluate the solution for uniformity and stability. The spray solution should not have free oil on the surface, nor fine particles that precipitate to the bottom, nor thick (clabbered) texture. If the spray solution is not compatible, repeat the compatibility test with the addition of a suitable compatibility agent. If the solution is compatible, use the compatibility agent as directed on its label. If the solution is still incompatible, do not mix the ingredients in the same tank.

Mixing Order

- 1. Water. Begin by agitating a thoroughly clean sprayer tank three-quarters full of clean water.
- 2. Agitation. Maintain constant agitation throughout mixing and application.
- 3. **Products in PVA Bags**. Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
- Water dispersible products (such as dry flowables, wettable powders, suspension concentrates, or suspo-emulsions). If an inductor is used, rinse it thoroughly after the component has been added.
- 5. Water-soluble products (such as Acifluorfen 2L). If an inductor is used, rinse it thoroughly after the component has been added.
- Emulsifiable concentrates (such as oil concentrate when applicable). If an inductor is used, rinse it thoroughly after the component has been added.
- 7. Water-soluble additives (such as AMS or UAN when applicable). If an inductor is used, rinse it thoroughly after the component has been added.
- 8. Remaining quantity of water. Maintain constant agitation during application.

RESTRICTIONS AND LIMITATIONS

- Soybeans and peanuts: Do not apply more than a total of 2 pints of Acifluorfen 2L per acre (0.5 lb. of active ingredient per acre) per season. Do not apply more than 1.5 pints of Acifluorfen 2L per acre (0.375 lb. of active ingredient per acre) per application.
- Strawberries: Do not apply more than a total of 3 pints of Acifluorfen 2L per acre (0.75 lb. of active ingredient per acre) per season. Do not apply more than 1.5 pints of Acifluorfen 2L per acre (0.375 lb. of active ingredient per acre) per application.
- Rice: Do not apply more than a total of 1 pint of Acifluorfen 2L per acre (0.25 lbs. of active ingredient per acre) per season. Do not apply more than 1 pint of Acifluorfen 2L per acre (0.25 lb. of active ingredient per acre) per application.
- There must be a minimum of 15 days between applications of Acifluorfen 2L.
- Do not use plants treated with Acifluorfen 2L for forage or feed.

- If there is a crop failure, small grains must not be replanted in a field for 40 days following the
 treatment of that field with Acifluorfen 2L. Soybeans, strawberries and peanuts may be replanted
 immediately in the event of crop failure. All other rotational crops must not be replanted for 100
 days following treatment with this product.
- Do not treat crops or weeds with Acifluorfen 2L that are under stress as unsatisfactory control of target species may result. Sources of stress may be due to drought, flooding, mechanical injury, widely fluctuating temperatures, hail damage, flooding or herbicide injury.
- Do not treat plants displaying crop injury prior to application of Acifluorfen 2L with this product.
 Crop injury caused by previous herbicide application includes plant stunting and leaf phytotoxicity.
 Application of this product to injured crops may cause the existing injury to be prolonged and/or enhanced.
- If overhead irrigation or rainfall occurs within 4 hours or treatment with this product, the effectiveness of Acifluorfen 2L may be reduced.
- Do not apply Acifluorfen 2L through any type of irrigation system.

Table 4 - Crop-Specific Restrictions Summary Table

Crop	Pre-Harvest Interval (PHI): Minimum Time Between Application to Harvest	Maximum Rate Per Application (Per Acre)	Maximum Rate Per Season (Per Acre)
Peanuts	75 days	1.5 pints	2 pints
Rice	50 days	1 pint	1 pint
Soybeans	50 days	1.5 pints	2 pints
Strawberries	60 days	1.5 pints	3 pints

CROP SPECIFIC INFORMATION

PEANUTS

Apply Acifluorfen 2L as a preemergence application to peanuts at the initiation of soil cracking but prior to crop emergence from the soil) at the rates specified in Table 1 above. This product may also be used to control listed weeds as a postemergence application.

Tank Mixes

Acifluorfen 2L may be tank mixed with the following products for the treatment of peanuts. Cross-refer to Table 2 above for additive options.

Tank Mix Partner	Additive (see Table 2 above)	
Basagran®	Option 3 or Option 4	
Cadre®	Option 3	
Dual® 8E	Option 3	
Frontier® 6.0	Option 3	
Lasso® 4E	Option 3	
Poast [®]	Option 4	
Poast® HC	Option 4	
Poast® Plus	Option 4	
2,4-DB ¹	Option 3 or Option 4	

Do not apply Acifluorfen 2L mixed with 2,4-DB after the pod-filling stage has started.

RICE

Apply this product from the late tillering stage until the early boot stage (usually in June or July). Prior to application, the rice crop must be past the 3-leaf stage.

Hemp sesbania plants must be treated prior to the flowering stage. For the most effective application, apply Acifluorfen 2L once the growth of sesbania extends above the rice.

Apply Acifluorfen 2L to hemp sesbania at the rate of 0.5 pint per acre. In order to control later germinating sesbania, make a second application of Acifluorfen 2L at the rate of 0.5 pint per acre. A spray adjuvant is important to the control of hemp sesbania with Acifluorfen 2L. In order to achieve uniform control of target weed species, mix 1 to 2 pints of an 80% active nonionic spray surfactant per 100 gallons of water.

Restrictions and Limitations

- The maximum application rate for Acifluorfen 2L when treating rice crops is 1 pint per acre, per season: only to be used to control hemp sesbania.
- Do not apply to rice more than 2 times per season
- Do not treat rice with this product after it has reached the boot stage of growth.
- The water from treated rice fields must not be used for the irrigation of crops except those labeled for use with Acifluorfen 2L.
- Crayfish from rice areas treated with this product must not be harvested.

Tank Mixes

Acifluorfen 2L may be tank mixed with the following products for the treatment of rice. Cross-refer to Table 2 above for additive options.

Tank Mix Partner	Additive (see Table 2 above)	
Basagran [®]	Option 3	
Facet® 75 DF	Option 3	
Propanil	Option 3	

SOYBEANS

For the most effective treatment of Acifluorfen 2L, spray actively growing small weeds. For more information refer to the **Application Instructions** (above) and **Table 1** (above).

In order to control weeds that escaped the first application, or subsequent weed flushes, make a sequential application of Acifluorfen 2L as follows: apply 1 pint of Acifluorfen 2L following an application of 1 pint of Acifluorfen 2L. Applications must be made before target weeds reach the maximum size (refer to Table 1 above).

Tank Mixes

Acifluorfen 2L may be tank mixed with the following products for the treatment of soybeans. Cross-refer to Table 2 above for additive options:

Tank Mix Partner	Additive (see Table 2 above)	
Assure II®1	Option 3	
Basagran®	Option 3 or Option 4	
Classic®	Option 3	
Concert® SP (up to 0.25 ounces)	Option 5	
First Rate®	Option 5	

Frontier® 6.0	Option 3
Fusilade® DX1	Option 3
Fusion ^{®1}	Option
Glyphosate	8.5 lbs. to 17 lbs. of AMS per 100 gallons
Matador ^{®1}	Option 3
Pinnacle® (up to 0.25 ounces)	Option 3 or Option 5
Poast [®]	Option 4
Poast® HC1	Option 4
Poast Plus®1	Option 4
Pursuit [®]	Option 5
Raptor®	Option 5
Reliance® STS SP ² (up to 0.25 ounces)	Option 5
Resource®	Option 4
Sceptor®	Option 3
Select® 2 EC	Option 4
Skirmish®	Option 5
Synchrony® STS² (up to 0.5 ounce)	Option 7 or Option 8
2,4-DB	Option 3

¹ If applying this product with Acifluorfen 2L as a constituent of a weed control program, ensure the following for the most effective application:

- If an application is made with the tank mix partner first, wait 24 hours prior to treating the same area with Acifluorfen 2L.
- If an application is made with Acifluorfen 2L tank mix partner first, wait 7 days prior to treating the same area with the tank mix partner.

Burndown Treatment (Prior to Soybean Planting)

In order to control listed weeds that are present, this product can be applied on its own prior to planting (See Table 1 for listed weed species). Pre-planting burndown activity can be enhanced through the use of a spray additive. This pre-planting treatment is not a replacement for a full season weed control program.

Tank Mixes (Burndown)

Acifluorfen 2L may be tank mixed with the following products for the pre-planting burndown treatment of soybean. Cross-refer to Table 2 above for additive options.

Tank Mix Partner	Additive (see Table 2 above)	
Poast [®]	Option 4, Option 7 or Option 8	
Poast® HC	Option 4, Option 7 or Option 8	
Poast Plus®	Option 4, Option 7 or Option 8	
2,4-D LVE	Option 4	

² Treatment of varieties of soybean that are not designated STS will cause loss of yield and/or severe crop injury. When treating non-STS designated soybean with this tank mix, do not add oil concentrate.

STRAWBERRIES

Apply Acifluorfen 2L using ground equipment up to the maximum application rate of 1.5 pints per acre per season of Acifluorfen 2L (0.375 lb. of active ingredient per acre per season) in order to control listed broadleaf weeds (listed in table below). Make broadcast applications of Aciflourfen 2L, or a tank mix in 20-40 gallons of water per acre. Applicators must proportionally reduce rates for band strip applications.

RESTRICTION: Do not apply more than 3 pints per acre per season of Acifluorfen 2L (0.75 lb. of active ingredient per acre per season).

Annual Strawberries grown on plastic mulch on plant beds:

Treat after final land preparation, but before laying plastic mulch and before transplanting the crop using one banded application. For the most effective application, minimize soil disturbance during planting and the laying of plastic.

When applying Acifluorfen 2L between rows of plastic mulch, apply the product as a direct-shielded application to the middle of strawberry row in between mulched beds. Applicators must not allow this product to contact strawberry plants.

Perennial Strawberries:

Apply as following:

- 1. Make a first application of Acifluorfen 2L following bed renovation or after the last harvest.
- 2. Make the second application when the plants are dormant (usually late fall to early spring). The second application must be made after a period of at least 120 days after the strawberry harvest.

When applying this product to row middles, apply Acifluorfen 2L up to the maximum rate (1.5 pints Acifluorfen 2L per acre per season/0.375 lb. of active ingredient per acre per season).

	Broadleaves Leaves Controlled by Acifluorfen 2L
	Artichoke, Jerusalem (Helianthus tuberosus)
	Balloonvine (Cardiospemum halicacaburm)
	Beggarweed, Florida (Desmodium tortuosum)
	Beggarticks (Bidens frondosa)
	Bindweed, Field (Convolvulus arvensis)
	Bindweed, Hedge (Convolvulus sepium)
	Buckwheat, Wild (Polygonum convolvulus)
	Buffalobur (Solanum rostratum)
-	Burgherkin (Cucumis anguria)
	Carpetweed (Mollugo verticillata)
N. F	Citron (Wild Watermelon) (Citrullus vulgaris)
	Cocklebur, Common (Xanthium pensylvanicum)
	Cocklebur, Heartleaf (Xanthium strumarium)
	Copperleaf, Hophornbeam (Acalypha ostryaefolia)
	Copperleaf, Virginia (Acalypha virginica)
	Crotolaria, Showy (Crotalaria spectabillis)
	Croton, Tropic (Croton glandulosus)
	Croton, Wooly (Croton capitatus)
	Crownbeard, Golden (Verbesina encelioides)
	Cucumber, Wild Spiny (Cucumis dipsaceus)
	Eclipta (Eclipta alba)
	Galinsoga, Hairy (Galinsoga ciliate)
	Galinsoga, Smallflower (Galinsoga parviflora)
	Groundcherry, Cutleaf (Physalis angulate)
	Groundcherry, Lanceleaf (Physalis lanceifolia)
	Indigo, Hairy (Indigo fera hirsute)
	Jimsonweed (Datura stramonium)

Ladysthumb (Polygonum persicaria) Lambsquarters, Common (Chenopodium album) Milkweed, Climbing (Sarcostemma cyanchoides) Milkweed, Common (Asclepias syriaca) Morningglory, Cypressvine (Ipomoea quamoclit) Morningglory, Entireleaf (Ipomoea hederacea var. integruscula) Morningglory, Ivyleaf (Ipomoea hederacea var. hederacea) Morningglory, Purple Moonflower (Ipomoea muricata) Morningglory, Scarlet (Ipomoea coccinea) Morningglory, Smallflower (Jacquemontia tamnifolia) Morningglory, Small White (pitted) (Opomoea lacunose) Morningglory, Tall, Common (Ipomoea purpurea) Morningglory, Willowleaf (Palmleaf) (Ipomoea wrightii) Mustard, Wild (Brassica kaber) Nightshade, Black (Solanum nigrum) Nightshade, Eastern Black (Solanum ptycanthum) Pigweed, Palmer (Amaranthus palmeri) Pigweed, Prostrate (Amaranthus blitoides) Pigweed, Redroot (Amaranthus retroflexus) Pigweed, Smooth (Amaranthus hybridus) Pigweed, Spiny (Amaranthus spinosus) Poinsettia, Wild (Euphorbia heterophylla) Poorjoe (Diodia teres) Purslane, Common (Portulaca oleracea) Pusley, Florida (Richardia scabra) Ragweed, Common (Ambrosia artemisifolia) Ragweed, Giant (Ambrosia trifida) Redvine (Brunnichia cirrhosa) Senna, Coffee (Cassia occidentalis) Sesbania, Hemp (Sesbania exaltata) Smartweed, Pennsylvania (Polygonum pensylvanicum) Smellmelon (Cucumis melo) Spurge, Prostrate (Euphorbia supine) Spurge, Spotted (Euphorbia maculate) Starbur, Bristly (Acanthospermum hispidum) Teaweed (See Sida, Prickly) (Sida spinosa) Trumpetcreeper (Campsis radicans) Velvetleaf (Abutilon theophrasti) Waterhemp, Common (Amaranthus rudis) Waterhemp, Tall (Amaranthus tuberculatus)

Grasses Controlled by Acifluorfen 2L	
Foxtail, Giant (Setaria faberi)	
Foxtail, Green (Setaria viridis)	
Foxtail, Yellow (Setaria lutescens)	
Johnsongrass, Seedling (Sorghum halepense)	NETS HE THE TAX
Johnsongrass, Rhizome (Sorghum halepense)	
Panicum, Fall (Panicum dichotomiflorum)	
Panicum, Texas (Panicum texanum)	
Shattercane (Sorghum bicolor)	ESALER NO. 10 LOGICAL
Volunteer Barley (Hordeum vulgare)	
Volunteer Barley, Corn (Zea mays)	

Volunteer Barley, Oats (Avena sativa)

Volunteer Barley, Rye (Secale cereal)

Volunteer Barley, Wheat (Triticum aestivum)

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Do not store below 32°F.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: 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 a 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. 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 by state and local authorities. **CONTAINER HANDLING DISPOSAL:** 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, if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. If rinsate cannot be used, follow pesticide disposal instructions. If not triple rinsed, these containers are acute hazardous wastes and must be disposed of in accordance with local, state and federal regulations.

Steps to be taken in case material is released or spilled:

Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal. Remove the contaminated clothing, and was affected skin areas with soap and water. Wash clothing before re-use. Keep the spill out of all sewers and open bodies of water.

LIMITATION OF WARRANTY AND LIABILITY

IMPORTANT: READ BEFORE USE. Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If these terms and conditions are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: 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. Ineffectiveness, injury, and other unintended consequences may result because of such factors as manner of use or application (including misuse), the presence of other materials, weather conditions, and other unknown factors, all of which are beyond the control of Summit Agro North America Holding Corporation. All such risks shall be assumed by the user or buyer.

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[EPA approval date]