

83520-24

8/23/2012

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**U S ENVIRONMENTAL PROTECTION AGENCY**  
**Office of Pesticide Programs**  
**Registration Division (7504P)**  
**Ariel Rios Building**  
**1200 Pennsylvania Ave NW**  
**Washington D C 20460**

**NOTICE OF PESTICIDE**

☒ Registration  
☐ Reregistration

(under FIFRA as amended)

EPA Registration  
 Number

83520-24

Date of Issuance

AUG 23 2012

Term of Issuance **Unconditional**

Name of Pesticide Product

**Avalon Herbicide**

Name and Address of Registrant (include ZIP Code)

**Tacoma Ag, LLC**  
**c/o Pyxis Regulatory Consulting Inc**  
**4110 136<sup>th</sup> 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 Make the following label revisions
  - a Revise the EPA Reg No to 83520 24
  - b Assure that the establishment number and net content are added to the label
  - c Submit one year storage stability (guideline 830 6317) and corrosion characteristics (guidelines 830 6320 studies) with observations made at 0 3 6 9 and 12 months intervals
- 3 Submit one copy of the revised final printed label before you release the product for shipment

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

If you have any questions regarding the Notice please contact Grant Rowland at (703) 347 0254 or [rowland.grant@epa.gov](mailto:rowland.grant@epa.gov)

Signature of Approving Official

Kathryn Montague  
 Product Manager 23  
 Herbicide Branch  
 Registration Division (7505P)

*Michael W. W. W.*  
*for*

Date

AUG 23 2012

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

AUG 23 2012  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No

83520-24

GROUP

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HERBICIDE

## AVALON™ Herbicide

For use on peanuts rice soybeans and strawberries

### ACTIVE INGREDIENT

Sodium salt of acifluorfen

20.1%

### OTHER INGREDIENTS

79.9%

### TOTAL

100.0%

Equivalent to 2 pounds of active ingredient per gallon

**KEEP OUT OF REACH OF CHILDREN**

## DANGER/PELIGRO

Si usted no entiende 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	<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>
IF ON SKIN OR CLOTHING	<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>
IF SWALLOWED	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice</li><li>• 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</li><li>• Do not give anything by mouth to an unconscious person</li></ul>
IF INHALED	<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 by mouth to mouth if possible</li><li>• Call a poison control center or doctor for further treatment advice</li></ul>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment You may also contact CHEMTREC at 1 800 424 9300 for emergency medical information	
<b>NOTE TO PHYSICIAN</b> Probable mucosal damage may contraindicate the use of gastric lavage	
<b>ANTIDOTE</b> – No specific 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

Tacoma Ag LLC

P O Box 14073

Durham NC 27713

EPA Reg No 83520

EPA Est No \_\_\_\_\_

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 reuse 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 hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- 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 **Conditions of Sale and Warranty** 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

Avalon Herbicide is a selective herbicide for use in rice strawberries peanuts and soybeans for postemergence control of grasses and broadleaf weeds listed in this label

#### Crop Tolerance

Crops listed as use sites are tolerant of Avalon Herbicide at all growth stages specified below Following treatment with this product crops may display temporary leaf speckling however crops will outgrow the condition within 10 days Crop vigor and/or new growth will not be affected by applications of Avalon Herbicide

#### Cleaning Application Equipment

Application equipment must be triple rinsed before and after treatment with Avalon Herbicide Use a strong detergent or commercial spray cleaner following the manufacturer's instructions

### APPLICATION INSTRUCTIONS

#### Irrigated Areas

Applying Avalon Herbicide to weed species under conditions of drought may result in inadequate control In order to ensure weeds are actively growing it may be necessary to irrigate target areas prior to applying this product

#### Spray Coverage

For effective control and thorough coverage ensure this product is applied in a sufficient spray volume Spray coverage may be prevented or hindered by dense leaf canopies that may shelter smaller target weeds

Treat with Avalon Herbicide as an aerial banding application or as a broadcast application to actively growing weeds Specific growth stage(s) and rates are listed in Table 1 for strawberries and rice For soybeans and peanuts see the Crop Specific Information section

Adequate control may be hindered if treatment with Avalon Herbicide is delayed as the growth stage specified in this label may be exceeded Applying Avalon Herbicide during early postemergence when weeds are small will allow treatment using the lower rate (dependent upon the weed species present) and will facilitate thorough spray coverage

Unless the Crop Specific Information section (below) specifies otherwise apply Avalon Herbicide at the following rates

#### Aerial Application

Use a minimum of 10 gallons per acre of water when applying this product as an aerial application A minimum of 5 gallons per acre of water has been effective where sufficient coverage can be achieved

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### Application Equipment

Use spray equipment for applications of Avalon Herbicide at a pressure of up to 40 psi. Applicators must use diaphragm type nozzles that create cone patterns or fan spray. In order to avoid drift and to ensure best coverage with Avalon Herbicide, refer to the Spray Drift Management section (below).

### Ground (Banding) Applications

Adjust row banding equipment in order to ensure the most thorough coverage of weeds in the row. Direct two nozzles from either side of the crop row toward the target weeds in the center rows. Do not use a single nozzle for treatment over the row. Use a minimum of 15 gallons of water per acre on the band with a minimum band width of 15 inches. For further instructions, refer to the Ground Application Equipment and Methods of Application (Broadcast) section.

### Ground Application Equipment and Methods of Application (Broadcast)

#### Application Equipment

Use hollow cone nozzles to apply Avalon Herbicide, spaced 20 inches apart (maximum). Application may also be made with a standard high pressure flat fan for pesticide treatment. Do not apply this product with flood controlled droplet applicator (CDA) or chamber nozzles as inconsistent coverage may result, causing variable weed control. Do not apply Avalon Herbicide with selective application equipment such as wiper applicators or recirculating sprayers.

#### Water Volume

Apply this product in 10-20 gallons per broadcast acre of spray solution for best results. If there is dense weed foliage, increase water volume up to 50 gallons. Use 20-40 gallons of spray solution per broadcast acre when applying Avalon Herbicide to strawberry crops.

#### Spray Pressure

Use spray equipment to apply Avalon Herbicide at a minimum pressure of 40 psi. It is important to measure spray pressure at the boom. Do not measure spray pressure at the pump or in the line. Where there is a low volume of water (i.e., 10 gallons per acre) or where there is dense weed/crop foliage, use a minimum spray pressure of 60 psi for optimal results.

#### Cultivation

Do not cultivate treated areas within 5 days prior to treatment with Avalon Herbicide or 7 days following treatment.

## 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
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 Avalon Herbicide – Peanuts and Soybeans**

Refer to the Crop Specific Information (below) for growth stage instructions and rates of use when applying this product to rice crops. In Table 1 below weed height is given for guidance purposes only and is dependent on environmental factors. When using Table 1 place importance on leaf stages when determining the stage(s) of growth of listed weeds. Refer to the Additives section below for more information.

Weeds Species	Rate of Avalon Herbicide					
	0.5 pint of Avalon Herbicide per acre		1.0 pint of Avalon Herbicide per acre		1.5 pints of Avalon Herbicide per acre	
	Growth Stage <sup>b</sup> (up to)	Max Height (inches)	Growth Stage <sup>b</sup> (up to)	Max Height (inches)	Growth Stage <sup>b</sup> (up to)	Maximum Height (inches)
Balloonvine					2 leaves	2
Beggarweed Florida					2 leaves	Less than 2
Buckwheat Wild					2 leaves	2
Buffalobur					2 leaves	2
Burgherkin					2 leaves	2
Carpetweed			Multi 3 diameter	Less than 2	Multi 6 diameter	2
Citron (Wild Watermelon)					2 leaves	2
Cocklebur					2 leaves	2
Copperleaf Hophorn beam			2 leaves	2	4 leaves	4
Copperleaf Virginia					2 leaves	2
Crotalaria Showy			6 leaves	6	6 leaves	6
Croton Tropic			1-2 leaves	Less than 2	2 leaves	2
Croton Woolly			1-2 leaves	Less than 2	2 leaves	2
Crownbeard Golden					2 leaves	Less than 2
Eclipta					6 leaves	Less than 2
Galinsoga Hairy					4 leaves	Less than 2
Galinsoga Smallflower					4 leaves	Less than 2
Groundcherry Cutleaf					2 leaves	1
Groundcherry Lanceleaf					2 leaves	1
Indigo Hairy					3 leaves	Less than 2
Jimsonweed			4 leaves	4	6 leaves	6
Ladysthumb			4 leaves	4	6 leaves	6
Lambsquarters Common <sup>4</sup>					2 leaves	2
Morningglory Cypressvine			2 leaves	2	4 leaves	4
Morningglory Entireleaf			2 leaves	2	4 leaves	4
Morningglory Ivyleaf			2 leaves	2	4 leaves	4
Morningglory Purple			2 leaves	2	4 leaves	4
Moonflower Scarlet			2 leaves	2	4 leaves	4
Moonflower Smallflower			2 leaves	2	4 leaves	4
Moonflower Small White (pitted)			2 leaves	2	4 leaves	4
Moonflower Tall (common)			2 leaves	2	4 leaves	4
Moonflower Willowleaf (Palmleaf)			2 leaves	2	4 leaves	4
Mustard Wild	2 leaves	2	4 leaves	Less than 4	4 leaves	4
Nightshade Eastern Black			2-3 leaves	Less than 2	6 leaves	2

Weeds Species	Rate of Avalon Herbicide					
	0 5 pint of Avalon Herbicide per acre		1 0 pint of Avalon Herbicide per acre		1 5 pints of Avalon Herbicide per acre	
	Growth Stage <sup>b</sup> (up to)	Max Height (inches)	Growth Stage <sup>b</sup> (up to)	Max Height (inches)	Growth Stage <sup>b</sup> (up to)	Maximum Height (inches)
Nightshade Black			2 3 leaves	Less than 2	6 leaves	2
Pigweed Palmer	4 leaves	Less than 2	6 leaves	Less than 4	6 leaves	4
Pigweed Prostrate					4 leaves	4
Pigweed Redroot	4 leaves	Less than 2	6 leaves	Less than 4	6 leaves	4
Pigweed Smooth	4 leaves	Less than 2	6 leaves	Less than 4	6 leaves	4
Pigweed Spiny			2 leaves	Less than 2	2 leaves	2
Poinsettia Wild					2 leaves	2
Poorjoe					2 leaves	2
Purslane Common					Multi 6 diameter	1
Pusley Florida			2 leaves	2	4 leaves	4
Ragweed Common			2 leaves	2	4 leaves	3
Ragweed Giant			2 leaves	Less than 2	2 leaves	3
Senna Coffee					2 leaves	2
Sesbania Hemp			4 leaves	4	6 leaves	6
Smartweed Pennsylvania			4 leaves	4	6 leaves	6
Smellmelon					2 leaves	2
Spurge Prostrate					Multi 0 5 diameter	
Spurge Spotted					Multi 0 5 diameter	
Starbur Bristly					2 leaves	2
Waterhemp Common	4 leaves	Less than 2	6 leaves	Less than 4	6 leaves	4
Waterhemp Tail	4 leaves	Less than 2	6 leaves	Less than 4	6 leaves	4
<b>Annual Grasses</b>						
Foxtail Giant					2 leaves	1
Foxtail Green					2 leaves	1
Foxtail Yellow					2 leaves	1
Johnsongrass Seedling					2 leaves	1
Panicum Fall					2 leaves	1
Shattercane					2 leaves	1
Volunteer Small Grains					2 leaves	1
Includes triazine and ALS resistant biotypes						
<sup>b</sup> When assessing leaf stages as an indication of growth stage do not count pairs of leaves count individual leaves separately and do not count cotyledon leaves Do not treat weeds during the cotyledon stage of growth						
Refer to the Special Use Directions section below						
<sup>c</sup> Suppression or partial control						

## ADDITIONAL WEED PROBLEMS IN PEANUTS AND SOYBEANS

### SPECIAL USE DIRECTIONS

Prior to applying Avalon Herbicide with spray equipment ensure that there is good soil moisture For an effective application soil must be moist before and after application

Use a rate of 1 5 pints of Avalon Herbicide per acre mixed with 2 pints of spray surfactant per 100 gallons of spray mix (unless otherwise stated) for the following weeds

#### Beggarweed Florida

Florida Beggarweed is difficult to control because it has a long germination season Apply Avalon Herbicide when Florida Beggarweed seedlings have no more than 2 expanding young true leaves and seedlings are no higher than 1 5

To ensure an optimal treatment of Avalon Herbicide for control of Florida Beggarweed obtain maximum control of the earliest flush of the weed Schedule cultivation to ensure that secondary weed flushes and regrowth are controlled

Applications of Avalon Herbicide will suppress and/or partially control Florida Beggarweed growing in high soil moisture or in high relative humidity

### **Buckwheat Wild Buffalobur**

Avalon Herbicide will provide partial control when buffalobur and wild buckwheat seedlings have less than 2 true leaves. Treat with Avalon Herbicide at a rate of 2 liters per acre in 30 gallons of water.

### **Cucurbits Burgherkin Citron (Wild Watermelon) Smellmelon**

The cucumber species may be difficult to control with a single application as germination of the plant occurs over a protracted period. For an effective application of Avalon Herbicide, ensure the first treatment is made no later than the 2 leaf stage.

### **Morningglories**

In order to achieve control of morningglories on a consistent basis, make sequential applications of 1 pint of Avalon Herbicide.

### **Poinsettia Wild**

Usually, Avalon Herbicide will kill or severely stunt Wild Poinsettia. Apply this product to before the formation of the third true leaf.

Treatment with Avalon Herbicide may result in a differential in height between surviving poinsettia and soybeans crops which will allow for directed applications. Directed applications may be undertaken in order to achieve greater control.

### **Sesbania Hemp Crotalaria Showy**

Sesbania and Crotalaria are sensitive to treatment with this product. Therefore, control can be gained achieved at almost any plant height.

Apply Avalon Herbicide at the rate of 1 per pint acre after maximum weed emergence but before bloom. Applications of this product made after bloom are usually ineffective. Ensure that target weed species are not shaded by the crop canopy from spray applications. In order to control infestations of Sesbania in the late season, wait until the weed breaks the crop canopy before applying Avalon Herbicide.

### **Senna Coffee**

### **Starbur Bristly**

Applications of this product are usually ineffective if made after the 2 leaf growth stage. Avalon Herbicide will kill/suppress seedlings if applied to weeds not passed the 2 leaf growth stage at the directed rate.

### **Perennial Weeds**

- **Bindweed Field and Hedge**
- **Milkweed Climbing and Common**
- **Redvine Trumpetcreeper**

Acifluorfen is not effective in killing rootstocks of these perennial weeds because control of weeds growing from rootstocks underground is difficult. Applications of Avalon Herbicide will burn back above ground plants and suppress regrowth. Apply this product at the rate directed in Table 1 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**

When used with a pre emergence herbicide or preplant incorporated herbicide, this product will provide supplemental control of grasses and will kill/suppress annual grasses not past the 2 leaf stage of growth. Avalon Herbicide must not be used as the basic or lone component in an annual grasses control program.

### **Volunteer Small Grains**

- **Barley**



- Oats
- Rye
- Wheat

To suppress or kill weeds treat emerging volunteer small grains which are at the 1 to 2 leaf growth stage with Avalon Herbicide

## ADDITIVES

For consistent control with Avalon Herbicide one of the following additives must be combined with this product ammonium sulfate nonionic surfactant urea ammonium nitrate crop oil concentrate

UAN (or AMS) should be the additive selected when controlling velvetleaf

Using additives with Avalon Herbicide may result in leaf burn Leaf burn is more likely to occur if the relative humidity and the air temperature are high Crop vigor will remain unaffected and new growth will continue normally For more details contact the Tacoma Ag LLC representative for your area

See Table 2 For Additive Options and Table 3 for Additive Rates

### Nonionic Surfactant

Use 1 to 2 pints of 80% active nonionic spray surfactant per 100 gallons of water Use a higher rate of spray surfactant for certain weeds

### Ammonium Sulfate (AMS) Fertilizer

AMS is a granular dry nitrogen source fertilizer It must not be used unless it has been shown to be effective within the local area AMS of an inferior grade will not dissolve adequately and may plug spray nozzles Only use fine feed grade or spray grade AMS

Do not apply AMS in less than 10 gallons per acre Precipitation may cause problems with AMS if it is applied in reduced volumes

### 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

The composition of suitable additives will vary Vegetable and petroleum oil concentrates should contain emulsifiers to have good mixing properties Highly refined vegetable oils have been shown to be more successful as additives than those that are unrefined For more information see the Compatibility Test for Mix Components section

Use of certain oil concentrate products may result in excessive leaf burn Prior to purchasing an oil concentrate contact your local area additive supplier regarding the success and suitability of the product

### UAN Urea Ammonium Nitrate

UAN may be added to this product for increased control of weeds and instead of other spray additives in order to improve control of target weeds UAN is known as either 28% 30% or 32% nitrogen solution Do not use brass or aluminum nozzles to apply this product combined with UAN because most UAN solutions are mildly corrosive to mild steel brass and galvanized metals Thoroughly rinse application equipment immediately after use with water

### Effects of Temperature and Relative Humidity

To ensure that the use of adjuvants is effective use the following equation and use rate table (Table 2)

If temperature (degrees Fahrenheit) plus relative humidity (expressed as a percentage) exceeds 150 use the lower rates for adjuvants in Table 2

Example Temperature 75 F + relative humidity 90% = 165 use the lower use rate for adjuvant in Table 2

**Table 2 – Tank Mix Use Rates for Additives and Additive Options**

Option	Additive(s)	Use Rate
A	AMS	2.5 pounds per acre
B	UAN	4.8 pints per acre
C	Nonionic Surfactant	1.2 pints per 100 gallons
D	Crop Oil Concentrate	1.2 pints per acre
E	AMS and Nonionic Surfactant	AMS (1.2 pounds per acre) Nonionic surfactant (1.2 pints per 100 gallons)
F	UAN and Nonionic Surfactant	UAN (2-4 pints per acre) Nonionic surfactant (1.2 pints per 100 gallons)
G	AMS and Crop Oil Concentrate	AMS (1.2 pounds per acre) Crop Oil Concentrate (1 pint per acre)
H	UAN and Crop Oil Concentrate	UAN (2-4 pints per acre) Crop Oil Concentrate (1 pint per acre)

**Table 3 – Additive Rate Per Acre**

Additive	Ground Application Rate	Air Application Rate
Nonionic Surfactant	1.2 pints per 100 gallons	1.2 pints per 100 gallons
AMS	2.5 pounds per acre	2.5 pounds per acre
Oil Concentrate	1.2 pints per acre	1.2 pints per acre
UAN Solution	4.8 pints per acre	4 pints per acre

**MIXING INFORMATION**

Physical incompatibility reduced weed control or crop injury may result from mixing Avalon Herbicide with other pesticides (fungicides herbicides insecticides or miticides) additives or fertilizers Tacoma Ag LLC does not recommend using tank mixes other than those listed on the Avalon Herbicide label

Refer to local area agricultural authorities who may recommend tank mixtures not specified on Tacoma Ag LLC labeling The use of tank mixtures whose effectiveness has not been tested may result in crop injury reduced weed control or physical incompatibility

Read and follow the directions and tank mix instructions of all products in the tank mix The most restrictive label of the tank mix partners must apply This product maybe tank mixed with the following products (Generic versions of these products may be available Avalon Herbicide may be tank mixed with generic products provided that the specific product is registered for the same uses as Avalon Herbicide )

• Assure® II (quizalofop p ethyl)	• Fusion® (fluzifop p butyl + fenoxaprop p ethyl)	• Raptor® (imazamox ammonium)
• Basagran® (sodium bentazon)	• Glyphosate	• Synchrony XP
• Cadre® (imazapic ammonium)	• Lasso® 4E (alachlor)	• Resource® (flumiclorac pentyl ester)
• Classic® (chlorimuron ethyl)	• Matador® (quizalofop p ethyl)	• Scepter® (imazaquin)
• Dual® Magnum (metolachlor)	• Harmony® (thifensulfuron methyl)	• Select® (clethodim)
• Facet 75 DF (quinclorac)	• Poast® (sethoxydim)	• Synchrony® STS (thifensulfuron methyl + chlorimuron ethyl)
• FirstRate® (cloransulam methyl)	• Poast® Plus (sethoxydim)	• 2.4 DB
• Frontier® 6.0 (dimethenamid)	• Stam® (propanil)	• 2.4 DB (preplant burndown only)
• Fusilade® DX (fluzifop p butyl)	• Pursuit® (imazethapyr ammonium)	• Dicamba

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For further instructions see the Crop Specific Information section. Applicators must read and follow the directions and tank mix instructions of all products in the tank mix. The most restrictive label of the tank mix partners must apply.

### 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 recommended 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.
- 4 **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 Avalon Herbicide). If an inductor is used, rinse it thoroughly after the component has been added.
- 6 **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

- Leave at least 15 days between treatments with this product.
- Plants treated with this product must not be used for feed or forage.
- Weeds or crops that are under stress (e.g. from flooding, drought, hail damage, widely fluctuating temperatures, herbicide injury, or mechanical injury) must not be treated with this product, or unsatisfactory control of weeds may result. Do not apply Avalon Herbicide to injured crops. Crop injury may be caused by a previous herbicide application (e.g. phytotoxicity and plant stunting). Treating injured crops with Avalon Herbicide may cause existing crop damage to be enhanced or prolonged.  
The effectiveness of an application of this product may be reduced if rainfall or overhead irrigation happens within 4 hours of treatment.
- Avalon Herbicide must not be applied through irrigation systems of any type.
- Do not allow livestock to graze treated crops. Do not allow treated areas to be used to harvest forage, hay, or feed for livestock.
- In the event of crop failure, do not replant small grains in a treated field for 40 days following the application of Avalon Herbicide to that field. The replanting of strawberries, peanuts, and

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soybeans may take place immediately after a crop failure. All other species of rotational crops must not be replanted for 100 days following an application with Avalon Herbicide.

#### Soybeans and peanuts

- Do not apply more than a total of 2 pints per acre of Avalon Herbicide per season (0.5 lb ai per acre per season). Do not apply more than 1.5 pints per acre of Avalon Herbicide per application (0.375 lb ai per acre per application).

#### Strawberries

- Do not apply more than a total of 3 pints per acre of Avalon Herbicide per season (0.75 lb ai per acre per season). Do not apply more than 1.5 pints per acre of Avalon Herbicide per application (0.375 lb ai per acre per application).

#### Rice

Do not apply more than a total of 1 pint per acre of Avalon Herbicide per season (0.25 lbs ai per acre per season). Do not apply more than 1 pint per acre of Avalon Herbicide per application (0.25 lb ai per acre per application).

**Table 4 – Summary of Crop Specific Restrictions**

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

### CROP SPECIFIC INFORMATION

#### PEANUTS

Treat peanuts with a preemergence application of Avalon Herbicide at the initiation of soil cracking but before the crop emerges from the soil at the rates directed in Table 1. Avalon Herbicide may also be used to treat peanuts as a postemergence application.

#### Tank Mixes

See Table 2 for additive options. For the treatment of peanuts, Avalon Herbicide may be tank mixed with the following products:

Tank Mix Partner	Additive(s) – refer to Table 2
Basagran® (sodium bentazon)	Option C or Option D
Cadre® (imazapic ammonium)	Option C
Dual® Magnum (metolachlor)	Option C
Frontier® 6.0 (dimethenamid)	Option C
Lasso® 4E (alachlor)	Option C
Poast® (sethoxydim)	Option C
Poast® (sethoxydim)	Option C
Poast® Plus (sethoxydim)	Option C
2,4-DB <sup>1</sup>	Option C or Option D

<sup>1</sup> Do not apply a mixture of 2,4-DB and Avalon Herbicide after the pod filling stage has commenced.

#### RICE

Treat rice with Avalon Herbicide from the late tillering stage until the early boot stage (i.e., usually during June or July). Rice must be past the 3 leaf stage before making an application of Avalon Herbicide.

When targeting hemp sesbania apply Avalon Herbicide once growth of the target weeds extends above the rice crop. Apply Avalon Herbicide to hemp sesbania plants before the flowering stage at the rate of 0.5 pint per acre. A second application should be made to control later germinating sesbania at 0.5 pint per acre. Use a spray adjuvant with Avalon Herbicide for effective and uniform control of hemp sesbania. Add 1 to 2 pints of an 80% active nonionic spray surfactant per 100 gallons of water.

#### Restrictions and Limitations (Rice)

- Maximum application rate 1 pint per acre of Avalon Herbicide per season only to be used to control hemp sesbania
- Do not apply Avalon Herbicide to rice more than twice per season  
Once rice has reached the boot stage do not treat with Avalon Herbicide
- Do not use water from treated rice fields for crop irrigation except those crops labeled for use with Avalon Herbicide
- Do not harvest crayfish from rice areas treated with Avalon Herbicide

#### Tank Mixes

See Table 2 for additive options. Avalon Herbicide may be tank mixed with the following products for the treatment of rice.

Tank Mix Partner	Additive (refer to Table 2)
Basagran <sup>®</sup> (sodium bentazon)	Option C
Facet <sup>®</sup> 75 DF (quinclorac)	Option C
Propanil	Option C

#### SOYBEANS

Refer to Application Instructions (above) and Table 1. Make a spray application with Avalon Herbicide to actively growing small weeds. For subsequent weed flushes or to control weeds that escaped the first treatment, make a sequential application of this product as follows: apply 1 pint of this product following an initial application of 1 pint. Treatment(s) with Avalon Herbicide must be made prior to target weeds reaching the maximum size specified in Table 1.

#### Tank Mixes

See Table 2 for additive options. For the treatment of Soybean, Avalon Herbicide may be tank mixed with the following products:

Tank Mix Partner	Additive (refer to Table 2)
Assure II <sup>®</sup> (quizalofop p ethyl)	Option C
Basagran <sup>®</sup> (sodium bentazon)	Option C or Option D
Classic <sup>®</sup> (chlorimuron ethyl)	Option C
First Rate <sup>®</sup> (cloransulam methyl)	Option E
Frontier <sup>®</sup> 6.0 (dimethenamid)	Option C
Fusilade <sup>®</sup> DX <sup>a</sup> (fluazifop p butyl)	Option C
Fusion <sup>®</sup> (fluazifop p butyl + fenoxaprop p ethyl)	Option C
Glyphosate	8.5 lbs. to 17 lbs. of AMS per 100 gallons
Matador <sup>®</sup> (quizalofop p ethyl)	Option C
Harmony <sup>®</sup> (up to 0.25 ounces)	Option C or Option E
Poast <sup>®</sup> (sethoxydim)	Option D
Poast Plus <sup>®</sup> (sethoxydim)	Option D
Pursuit <sup>®</sup> (imazethapyr ammonium)	Option E
Raptor <sup>®</sup> (imazamox ammonium)	Option E
Resource <sup>®</sup> (flumiclorac pentyl ester)	Option D
Scepter <sup>®</sup> (imazaquin)	Option C
Select <sup>®</sup> 2 EC (clethodim)	Option D
Synchrony <sup>®</sup> XP <sup>b</sup> (up to 0.5 ounce) (thifensulfuron methyl + chlorimuron ethyl)	Option G or Option H
2,4-DB	Option C

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Clethodim	
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<sup>a</sup> If utilizing this mixture as part of a weed control program do the following

- If an area is treated with the tank mix partner first wait at least 24 hours before applying Avalon Herbicide to the same area
- If an area is treated with Avalon Herbicide first wait 7 days before applying the tank mix partner to the same area

<sup>b</sup> Application to soybean crops that have not been designated STS will cause severe crop injury and/or loss of yield Do not add an oil concentrate when applying to soybean not designated STS

### Burndown Treatment (Prior to Soybean Planting)

To control present weeds (per Table 1) Avalon Herbicide can be applied on its own before crop planting Burndown prior to planting can be enhanced through the addition of a spray additive However this pre planting application is not a replacement for a season long weed control program

### Burndown Treatment – Tank Mixes

See Table 2 for additive options For the pre planting burndown Avalon Herbicide may be mixed with the following products

Tank Mix Partner	Additive (refer to Table 2)
Poast <sup>®</sup> (sethoxydim)	Option D Option G or Option H
Poast Plus <sup>®</sup> (sethoxydim)	Option D Option G or Option H
2 4 D LVE	Option D
Dicamba	
Glyphosate	
Clethodim	

### STRAWBERRIES

To control listed weeds use ground equipment to apply this product up to a maximum of 1 5 pints of Avalon Herbicide per acre per season (0 375 lb ai per acre per season) Treat with Avalon Herbicide using a broadcast application of this product or a tank mix in 20 40 gallons of water per acre When making an application by band strip application reduce rates proportionally

**RESTRICTION** Do not apply more than 3 pints Avalon Herbicide per acre per season (0 75 lb ai per acre per season)

### Annual Strawberries grown on plastic mulch on plant beds

Apply this product before transplanting and before laying the mulch but after final land preparation Use one banded application For the best treatment reduce soil disturbance to a minimum during planting and during the laying of plastic

When treating between rows of mulch apply Avalon Herbicide in between mulched beds to the center of the strawberry row as a direct shielded application Do not allow Avalon Herbicide to contact strawberry crops

### Perennial Strawberries

After the last harvest or following bed renovation make an initial application of Avalon Herbicide In late fall to early spring when plants are dormant make a second application The second application must be made a minimum of 120 days after the strawberry harvest

When treating row middles with Avalon Herbicide apply the product up to the maximum rate of 1 5 pints per acre per season of Avalon Herbicide (0 375 lb ai per acre per season)

Broadleaves Leaves Controlled by Avalon Herbicide
Artichoke Jerusalem ( <i>Helianthus tuberosus</i> )
Balloonvine ( <i>Cardiospermum halicacabum</i> )

Broadleaves Leaves Controlled by Avalon Herbicide	
Beggarweed Florida ( <i>Desmodium tortuosum</i> )	
Beggarticks ( <i>Bidens frondosa</i> )	
Bindweed Field ( <i>Convolvulus arvensis</i> )	
Bindweed Hedge ( <i>Convolvulus sepium</i> )	
Buckwheat Wild ( <i>Polygonum convolvulus</i> )	
Buffalobur ( <i>Solanum rostratum</i> )	
Burgherkin ( <i>Cucumis anguria</i> )	
Carpetweed ( <i>Mollugo verticillata</i> )	
Citron (Wild Watermelon) ( <i>Citrullus vulgaris</i> )	
Cocklebur Common ( <i>Xanthium pensylvanicum</i> )	
Cocklebur Heartleaf ( <i>Xanthium strumarium</i> )	
Copperleaf Hophornbeam ( <i>Acalypha ostryaefolia</i> )	
Copperleaf Virginia ( <i>Acalypha virginica</i> )	
Crotalaria Showy ( <i>Crotalaria spectabilis</i> )	
Croton Tropic ( <i>Croton glandulosus</i> )	
Croton Woolly ( <i>Croton capitatus</i> )	
Crownbeard Golden ( <i>Verbesina encelioides</i> )	
Cucumber Wild Spiny ( <i>Cucumis dipsaceus</i> )	
Eclipta ( <i>Eclipta alba</i> )	
Galinsoga Hairy ( <i>Galinsoga ciliate</i> )	
Galinsoga Smallflower ( <i>Galinsoga parviflora</i> )	
Groundcherry Cutleaf ( <i>Physalis angulate</i> )	
Groundcherry Lanceleaf ( <i>Physalis lanceifolia</i> )	
Indigo Hairy ( <i>Indigo fera hirsute</i> )	
Jimsonweed ( <i>Datura stramonium</i> )	
Ladysthumb ( <i>Polygonum persicaria</i> )	
Lambsquarters Common ( <i>Chenopodium album</i> )	
Milkweed Climbing ( <i>Sarcostemma cyanchoides</i> )	
Milkweed Common ( <i>Asclepias syriaca</i> )	
Morningglory Cypressvine ( <i>Ipomoea quamoclit</i> )	
Morningglory Entireleaf ( <i>Ipomoea hederacea</i> var <i>integruscula</i> )	
Morningglory Ivyleaf ( <i>Ipomoea hederacea</i> var <i>hederacea</i> )	
Morningglory Purple Moonflower ( <i>Ipomoea muncata</i> )	
Morningglory Scarlet ( <i>Ipomoea coccinea</i> )	
Morningglory Smallflower ( <i>Jacquemontia tamnifolia</i> )	
Morningglory Small White (pitted) ( <i>Opomoea lacunose</i> )	
Morningglory Tall Common ( <i>Ipomoea purpurea</i> )	
Morningglory Willowleaf (Palmleaf) ( <i>Ipomoea wrightii</i> )	
Mustard Wild ( <i>Brassica kaber</i> )	
Nightshade Black ( <i>Solanum nigrum</i> )	
Nightshade Eastern Black ( <i>Solanum ptycanthum</i> )	
Pigweed Palmer ( <i>Amaranthus palmeri</i> )	
Pigweed Prostrate ( <i>Amaranthus blitoides</i> )	
Pigweed Redroot ( <i>Amaranthus retroflexus</i> )	
Pigweed Smooth ( <i>Amaranthus hybridus</i> )	
Pigweed Spiny ( <i>Amaranthus spinosus</i> )	
Poinsettia Wild ( <i>Euphorbia heterophylla</i> )	
Poorjoe ( <i>Diodia teres</i> )	
Purslane Common ( <i>Portulaca oleracea</i> )	
Pusley Florida ( <i>Richardia scabra</i> )	
Ragweed Common ( <i>Ambrosia artemisiifolia</i> )	
Ragweed Giant ( <i>Ambrosia trifida</i> )	

### Broadleaves Leaves Controlled by Avalon Herbicide

Redvine ( <i>Brunnichia cirrhosa</i> )
Senna Coffee ( <i>Cassia occidentalis</i> )
Sesbania Hemp ( <i>Sesbania exaltata</i> )
Smartweed Pennsylvania ( <i>Polygonum pennsylvanicum</i> )
Smellmelon ( <i>Cucumis melo</i> )
Spurge Prostrate ( <i>Euphorbia supine</i> )
Spurge Spotted ( <i>Euphorbia maculata</i> )
Starbur Bristly ( <i>Acanthospermum hispidum</i> )
Teaweed (See Sida Prickly) ( <i>Sida spinosa</i> )
Trumpetcreeper ( <i>Campsis radicans</i> )
Velvetleaf ( <i>Abutilon theophrasti</i> )
Waterhemp Common ( <i>Amaranthus rudis</i> )
Waterhemp Tall ( <i>Amaranthus tuberculatus</i> )

### Grasses Controlled by Avalon Herbicide

Foxtail Giant ( <i>Setaria faberi</i> )
Foxtail Green ( <i>Setaria viridis</i> )
Foxtail Yellow ( <i>Setaria lutescens</i> )
Johnsongrass Seedling ( <i>Sorghum halepense</i> )
Johnsongrass Rhizome ( <i>Sorghum halepense</i> )
Panicum Fall ( <i>Panicum dichotomiflorum</i> )
Panicum Texas ( <i>Panicum texanum</i> )
Shattercane ( <i>Sorghum bicolor</i> )
Volunteer Barley ( <i>Hordeum vulgare</i> )
Volunteer Barley Corn ( <i>Zea mays</i> )
Volunteer Barley Oats ( <i>Avena sativa</i> )
Volunteer Barley Rye ( <i>Secale cereal</i> )
Volunteer Barley Wheat ( <i>Triticum aestivum</i> )

### 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 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 1/4 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 wash affected skin areas with soap and water. Wash clothing before re-use. Keep the spill out of all sewers and open bodies of water.



### **Terms and Conditions of Use**

If terms of the following Warranty Disclaimer Inherent Risks of Use and Limitation of Remedies are not acceptable return unopened package at once to the seller for a full refund of purchase price paid Otherwise use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer Inherent Risks of Use and Limitations of Remedies

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#### **Warranty Disclaimer**

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Tacoma Ag LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions subject to the inherent risks set forth below TO THE EXTENT CONSISTENT WITH APPLICABLE LAW TACOMA AG LLC MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY

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#### **Inherent Risks of Use**

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It is impossible to eliminate all risks associated with use of this product Crop injury lack of performance or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label such as unfavorable temperatures soil conditions etc ) abnormal conditions (such as excessive rainfall drought tornadoes hurricanes) presence of other materials the manner of application or other factors all of which are beyond the control of Tacoma Ag LLC or the seller All such risks shall be assumed by buyer

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#### **Limitation of Remedies**

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The exclusive remedy for losses or damages resulting from this product (including claims based on contract negligence strict liability or other legal theories) shall be limited to at Tacoma Ag LLC's election one of the following (1) Refund of purchase price paid by buyer or user for product bought or (2) Replacement of amount of product used

To the extent consistent with applicable law Tacoma Ag LLC shall not be liable for losses or damages resulting from handling or use of this product unless Tacoma Ag LLC is promptly notified of such loss or damage in writing In no case to the extent consistent with applicable law shall Tacoma Ag LLC be liable for consequential or incidental damages or losses

The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements No employee or sales agent of Tacoma Ag LLC or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner

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