



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

January 26, 2023

Marcia K. Trostle  
Sr. Advisor, Chemistry and Adjuvant Registrations  
Loveland Products Inc.  
P.O. Box 1286  
Greeley, CO 80632-1286

Subject: Registration Review Label Amendments Incorporating Mitigation Measures from the Interim Decisions for S-Metolachlor and Sulfentrazone and the National Marine Fisheries Services' (NMFS) Biological Opinion on the Effects of S-Metolachlor on Pacific Salmonids  
*Product Name:* Tribal  
*EPA Registration Number:* 34704-1127  
*Application Date:* December 15, 2022  
*Decision Numbers:* 578363,589610,589609

Dear Marcia K. Trostle:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the S-Metolachlor and Sulfentrazone Interim Decisions. The Agency has concluded that your submission is acceptable.

This letter also addresses the label mitigation resulting from the NMFS' Biological Opinion on the effects of S-Metolachlor on Pacific salmonids. The Agency has concluded that your submission is also acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

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

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact DeMariah Koger at [Koger.demariah@epa.gov](mailto:Koger.demariah@epa.gov).

Sincerely,



Linda Arrington, Branch Chief  
Risk Management and Implementation Branch 4  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs

Enclosure



S-Metolachlor	GROUP	15	HERBICIDE
Metribuzin	GROUP	5	HERBICIDE
Sulfentrazone	GROUP	14	HERBICIDE

# TRIBAL

Herbicide for preemergent control of certain grasses and broadleaf weeds in soybeans.

<b>ACTIVE INGREDIENTS:</b>		<b>By Wt.</b>
S-Metolachlor*	.....	36.25%
Metribuzin**	.....	6.85%
Sulfentrazone***	.....	3.87%
<b>OTHER INGREDIENTS:</b>	.....	<b>53.03%</b>
	<b>TOTAL</b>	<b>100.00%</b>

- \*contains 3.30 pounds of S-metolachlor per gallon.
- \*\*contains 0.62 pound of metribuzin per gallon.
- \*\*\*contains 0.35 pound of sulfentrazone acid per gallon.

## KEEP OUT OF REACH OF CHILDREN WARNING-AVISO

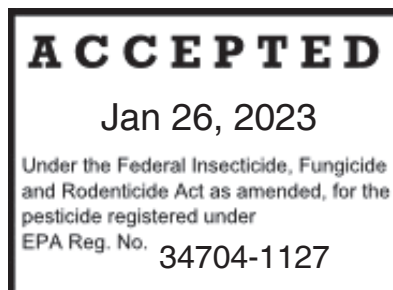
Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• <b>DO NOT</b> induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor or going for treatment. <b>FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.</b>	

**EPA REG. NO. 34704-1127**

**EPA EST. NO. 34704-XX-XXX  
NET CONTENTS X.X GALS (xx.xL)**

[optional print code]



[optional date code]

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING

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

### Personal Protective Equipment (PPE)

**Mixers, loaders, applicators, flaggers and other handlers must wear:**

- Protective eyewear,
- Long-sleeved shirt and long pants
- Chemical-resistant gloves made out of butyl rubber  $\geq 14$  mils or barrier laminate,
- Shoes and socks.

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

Mixers and loaders supporting aerial applications are required to use closed systems. The closed system must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4)).

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### USER SAFETY RECOMMENDATIONS

#### Users should:

- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco or 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.
- Remove and wash contaminated clothing before reuse.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to marine/estuarine invertebrates.

**DO NOT** apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high-water mark. Drift and run off may be hazardous to terrestrial and aquatic plants adjacent to treated areas. **DO NOT** apply when weather conditions favor drift from the area treated. **DO NOT** contaminate water when disposing of equipment washwaters or rinsate.

Reporting Ecological Incidents: To report ecological incidents, including mortality, injury, or harm to plants and animals, call 1-866-944-8565.

### SURFACE WATER ADVISORY

Sulfentrazone can contaminate surface water through spray drift. Under some conditions, sulfentrazone may also have a high potential for runoff into surface water (primarily via dissolution in runoff water), for many months post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-lying tile drainage systems that drain to surface waters.

S-metolachlor may impact surface water quality due to runoff of rainwater. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several weeks or months after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of S-metolachlor from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

#### **GROUND WATER ADVISORY**

Metribuzin is a chemical which can travel (seep or leach) through soil and can contaminate ground water which may be used as drinking water. Metribuzin has been found in ground water as a result of agricultural use. Users are advised not to apply Metribuzin where the water table (ground water) is close to the surface, and where the soils are very permeable, i.e., well-drained soils such as loamy sands. Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water.

S-metolachlor and sulfentrazone are known to leach through soil into groundwater under certain conditions as a result of label use. These chemicals may leach into the groundwater if used in areas where soils are permeable, particularly where the water table is shallow, particularly where the water table is shallow, may result in ground water contamination.

#### **NON-TARGET ORGANISM ADVISORY**

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

#### **MIXING/LOADING INSTRUCTIONS**

Product must be used in a manner which will prevent back-siphoning in wells, spills or improper disposal of excess pesticide spray mixture.

This product may not be mixed or loaded within 50 ft. of perennial or intermittent streams and rivers, natural or impounded lakes and reservoirs. This product may not be mixed or loaded or used within 50 feet of any wells (including abandoned wells and drainage wells), sink holes. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing/loading areas.

Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or washwater, and rainwater that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times.

The above specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/ loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**Endangered Species Protection Requirements:** It is a Federal offense to use any pesticide in a manner that results in an unauthorized "take" (e.g., kill or otherwise harm) of an endangered species and certain threatened species, under the Endangered Species Act section 9. When using this product, you must follow the measures contained in the Endangered Species Protection Bulletin for the area in which you are applying the product. You must obtain a Bulletin no earlier than six months before using this product.

To obtain Bulletins, consult <http://www.epa.gov/espp/>, call 1-844-447-3813, or email [ESPP@epa.gov](mailto:ESPP@epa.gov). You must use the Bulletin valid for the month in which you will apply the product.

**DO NOT** apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult

the agency responsible for pesticide regulation.

Observe all restrictions, precautions and limitations on this label as well as on the labels of products used in combination with this product.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.**

**Exception:** If the product is soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls,
- Protective eyewear,
- Chemical-resistant gloves, made of butyl rubber  $\geq$ 14 mils or barrier laminate, and,
- Shoes plus socks.

**Failure to follow the directions for use and precautions on this label may result in poor weed control, crop injury, or illegal residues.**

**Note: Not for sale, use, or distribution in Nassau County or Suffolk County, New York.**

### PRODUCT INFORMATION

Tribal™ kills weeds by root and/or foliage uptake and rapid translocation to the growing points. Adequate soil moisture is important for optimum activity of this product. When adequate soil moisture is present, this product will provide residual control of susceptible germinating weeds; activity on established weeds will depend on the weed species and the location of its root system in the soil.

Use of this product in accordance with label directions is expected to result in normal growth of rotational crops in most situations; however, various environmental and agronomic factors make it impossible to eliminate all risks associated with the use of this product. Therefore, rotational crop injury is always possible.

### WEED RESISTANCE MANAGEMENT

#### MODE OF ACTION (MOA)

Tribal herbicide is a mixture of the active ingredients S-metolachlor, metribuzin and sulfentrazone.

- S-Metolachlor is a biosynthesis inhibitor (Group 15 mode of action) preventing cell division in emerging weeds.
- Metribuzin is a photosystem II inhibitor (Group 5 mode of action) leading to cellular membrane disruption and plant death.
- Sulfentrazone is a protoporphyrinogen oxidase inhibitor (Group 14 mode of action) leading to cellular membrane disruption and plant death.

For resistance management, please note that **TRIBAL** contains Group 5, Group 14 and Group 15 herbicides. Any weed population may contain plants naturally resistant to Group 5 and/or Group 14 and/or Group 15 herbicides. The resistant individuals may dominate the weed population if these herbicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance, take one or more of the following steps:

- Rotate the use of **TRIBAL** with other Group 5, Group 14 and Group 15 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available use the less resistance-prone partner at a rate that will control the target weeds equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.



- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation and that considers tillage or other mechanical control methods, cultural, biological and other management practices.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include:
  - Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds.
  - A spreading patch of non-controlled plants of a particular weed species.
  - Surviving plants mixed with controlled individuals of the same species.
- If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product and switch to another management strategy or herbicide with a different mode of action, if available.

Contact your local extension agent, crop advisor, or sales representative to find out if suspected resistant weeds to these MOAs have been found in your region. Do not assume that each listed weed is being controlled by multiple mechanisms of action. Co-formulated active ingredients are intended to broaden the spectrum of weeds that are controlled. Some weeds may be controlled by only one of the active ingredients in this product.

A given weed population may contain or develop resistance to an herbicide or herbicide MOA after repeated use. Appropriate resistance-management strategies should be followed to mitigate or delay resistance. If levels of weed control provided by applications of this product are reduced, and cannot be accounted for by factors such as misapplication, abnormal levels of target species or extremes of weather, it may be the case that target species have developed a strain resistant to applications of this product.

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

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

If resistance develops, this product may not provide sufficient control of target species. Where you suspect target species are developing resistance, contact State/local agricultural advisors. Integrated weed management guidelines promote an economically viable, environmentally sustainable, and socially acceptable weed control program regardless of the herbicide(s) used. The highlights of successful integrated weed management include:

1. Correctly identify weeds and look for trouble areas within field to identify resistance indicators.
2. Rotate crops.
3. Start the growing season with clean fields.
4. Rotate herbicide modes of action by using multiple modes of action during the growing season and apply no more than 2 applications of a single herbicide mode of action to the same field in a 2-year period. One method to accomplish this is to rotate herbicide tolerant trait systems.
5. Apply listed rates of herbicides to actively growing weeds at the correct time with the right application techniques.
6. Control any weeds that may have escaped the herbicide application.
7. Thoroughly clean field equipment between fields.
8. Scout before and after application.

Contact your local agronomic advisor for more specific information on integrated weed management for your area. Users should report lack of performance to registrant or their representative. For mixtures including this herbicide note that each listed weed may not be controlled by multiple mechanisms of action. Refer to crop specific directions (below) for maximum application rates and number of applications.

Contact your local extension specialist, agronomic advisor or certified crop advisors for additional pesticide resistance-management and/or more specific integrated weed-management recommendations for specific crops and weed biotypes in your area. For mixtures including this herbicide note that each listed weed may not be controlled by multiple mechanisms of action.

Users should report lack of performance to registrant or their representative

Refer to crop specific directions (below) for maximum application rates and number of applications.

For further information or to report suspected resistance contact Loveland Products, Inc. retailer, representative or call **1-888-**

## SPRAY DRIFT

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

### MANDATORY SPRAY DRIFT MANAGEMENT

- Applicators may spray only when wind speed is between 3 and 10 mph.
- Select nozzles and application pressure that deliver medium to coarse or larger spray droplets as indicated in the nozzle manufacturer's recommendations and in accordance with ASABE\* Standards S-572 and S-641.
- Select coarse to very coarse droplet size when sulfentrazone containing products, like TRIBAL, are used in a preemergent/preplant application.
- Select a medium to very coarse droplet size when sulfentrazone containing products, like TRIBAL, are used post emergence and tank mixed with a contact burndown herbicide.
- **DO NOT** apply using spray droplet size smaller than medium (defined by the ASABE\* standard).
- The applicator must be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information
- **Aerial Applications:**
  - Applicators are required to select the nozzle and pressure that deliver medium or coarser droplets (ASABE S641).
  - **DO NOT** release spray at a height less than 10 feet from the top of the crop canopy, nor at a height greater than 10 ft above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety.
  - At wind speeds between 3 - 10 miles per hour, applicators must use ½ swath displacement upwind at the downwind edge of the field. The boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
  - **DO NOT** apply during temperature inversions.
  - For sulfentrazone containing products, like TRIBAL:
    - Aerial application will be allowed when the field is too wet to safely apply pesticides using ground equipment.
    - When TRIBAL is allowed to be applied by air, applicator must use a minimum finished spray volume of 5 gallons per acre.
- **Ground Applications:**
  - Ground applicators must use a minimum finished spray volume of 10 gallons per acre.
  - When sulfentrazone containing products, like TRIBAL, are tank mixed with a contact burndown herbicide ground applicators must use a minimum spray volume of 15 gallons per acre
  - **Ground Boom Applications:**
    - Applicators are required to select the nozzles and pressure that deliver medium to coarse or larger spray droplets as indicated in the nozzle manufacturer's recommendations and in accordance with ASABE\* Standard S-572.
    - The minimum release height must be 30 inches from the soil for ground applications, but no more than 4 feet above the ground or crop canopy.
    - Applicators may spray only when wind speed is between 3 and 10 mph.
    - **DO NOT** apply during temperature inversions.
  - **Boomless Ground Applications:**
    - Applicators are required to select the nozzle and pressure that deliver medium or coarser droplet size (ASABE S572.3) for all applications.
    - Applicators may spray only when wind speed is between 3 and 10 mph.
    - **DO NOT** apply during temperature inversions.

\*ASABE – American Society for Agricultural and Biological Engineers.



## SPRAY DRIFT ADVISORIES

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

### IMPORTANCE OF DROPLET SIZE

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

#### Controlling Droplet Size- Ground Boom

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate. Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size. **DO NOT** exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of Spray Nozzles - Use the minimum number of nozzles that provide uniform coverage.
- Spray Nozzle Orientation - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- Spray Nozzle Type - use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using nozzles designed to reduce drift, (i.e., low-drift nozzles). Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

#### Controlling Droplet Size – Aircraft

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

### BOOM HEIGHT – Ground Boom

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

### RELEASE HEIGHT- Aircraft

Higher release heights increase the potential for spray drift. **DO NOT** make applications at a height greater than 10 feet above the top of the largest plants, unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

### SHIELDED SPRAYERS

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

### TEMPERATURE AND HUMIDITY

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

### TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

### WIND

Drift potential generally increases with wind speed. **AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.** Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

### Boomless Ground Applications:

Setting nozzles at the lowest effective height will help to reduce the potential for spray drift

### **Handheld Technology Applications:**

Take precautions to minimize spray drift.

### **Sensitive Areas**

*[Note to reviewer: We have left this statement here as well as moved to the environmental hazards section as requested.]*

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift. This product may only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

### **For All Applications**

Sprayer must be accurately calibrated before applying this product. Check sprayer during application to be sure it is working properly and delivering a uniform spray pattern. As the volume of spray mixture decreases per acre, the importance of accurate calibration and uniform application increases.

Avoid overapplication, misapplication, and boom and spray swath overlapping that will increase spray dosage. (Crop injury may occur as a result.) Avoid spray skips and gaps which allow weeds to grow in untreated soil. **DO NOT** apply when weather conditions favor spray drift and/or when sensitive or cool season crops (such as cole crops, onions, peas, or strawberries) are present in adjacent fields or in areas where wheat is growing in coarse-textured soils.

### **Sprayer Cleanup**

Spray equipment must be thoroughly cleaned to remove remaining traces of herbicide that might injure other crops to be sprayed. Drain any remaining spray solution of this product from the spray tank and dispose of according to label disposal instructions. Rinse the spray tank and refill with water, adding a heavy-duty detergent at the rate of one cup per 20.0 gallons of water. Recycle this mixture through the equipment for 5 minutes and spray out. Repeat this procedure twice. Fill the spray tank with clean water, recycle for 5 minutes, and spray out. Clean pump and nozzle screens thoroughly. Wash away any spray mixture from the outside of spray tank, nozzles or spray rig. All rinse water must be disposed of in compliance with local, state, and Federal guidelines.

**Additional Information** Use a standard low-pressure (20 to 40 psi) herbicide boom sprayer equipped with suitable nozzles and screens no finer than 50-mesh in nozzle and in-line strainers. Agitate thoroughly before and during application with bypass agitation. Low pressure and high-volume hand wand equipment is prohibited.

## **MIXING INSTRUCTIONS**

### **Incorporation and Combination Uses**

When this product is to be used in combination with another herbicide, follow the most restrictive directions on all product labels for combinations, rates, crops, incorporation, and special precautions.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

When using this product, make sure the sprayer is completely clean, and free of rust or corrosion which occurs from winter storage. Examine strainers and screens to be sure the sprayer is clean from previously used pesticides.

Any tank mix containing this product must be kept agitated and sprayed out immediately. **DO NOT** allow tank mixes to stand for prolonged periods of time.

The proper mixing procedure for this product alone or in tank-mix combinations with other herbicides is:

1. Fill the spray tank 1/4 to 1/3 full with clean water.
2. Add specified rate of this product while recirculating and with agitator running.
3. Mix thoroughly and add clean water to fill spray tank to desired level.
4. Add the other herbicide to tank last and agitate thoroughly.
5. Continue agitation during application and until sprayer tank is empty.

### **Application of Tribal in Fluid Fertilizers**

This product may be applied in fluid fertilizer solutions by following the appropriate mixing procedures and compatibility check. When using tank mix combinations, be sure all components are compatible.

### **Tank Mixing Guidelines for Fluid Fertilizer Mixtures**

1. Add the required amount of water and compatibility agent (if required) to the tank. Start agitation system while adding this product and follow by adding the fluid fertilizer and agitate.
2. If a second herbicide is also to be used, follow as above in Step 1, but use twice the amount of water. Start agitation, add Tribal. Follow by adding the second herbicide, then continue filling the tank with fluid fertilizer.
3. Maintain continuous agitation to assure uniform spray mixture until the tank is emptied.

Make compatibility checks of this product plus fluid fertilizers and tank-mix combinations plus fluid fertilizers which include this product for each batch because of the variability of fluid fertilizers.

#### **The Following Compatibility Check Should Only be Used When Mixing with Fluid Fertilizers.**

1. Pre-mix 8.0 teaspoons of water with 2.0 teaspoons of this product (4:1 ratio) in a quart jar by adding the water first and following with this product. Mix thoroughly. If a second herbicide is to be used, double the amount of water (8:1 ratio), mix in this product, and follow with the second herbicide.
2. Then pour 1.0 pint of fluid fertilizer into the quart jar and shake well.
3. Allow to stand for 5 minutes.

#### **Interpretation of Results**

If the solution in the jar appears to be uniform, without signs of agglomeration, or without a separation of an oily film on top of the fertilizer, the mixture may be used. If not, repeat the compatibility check using twice the amount of water or add a compatibility agent to the water. If separation occurs, but the mixture can be resuspended by shaking, then application is possible with good agitation in the spray tank.

### **SOYBEAN APPLICATION DIRECTIONS**

This product may be applied:

- Preplant incorporated, or
- Preplant surface or preemergent surface, or
- As a sequential preemergent application. Refer to Tables below for specific use directions

This product may also be used as an overlay application following a preplant incorporated application of a grass herbicide registered for this same use, and in tank mix combinations for burndown weed control.

All applications may be applied with ground equipment. When environmental conditions prohibit ground application, aerial application may be used.

#### **Restrictions**

- **DO NOT** exceed the maximum application rate of 4.5 pints of Tribal per acre per use season (equivalent to 0.20 pound sulfentrazone, 1.85 pounds metolachlor, and 0.35 pound metribuzin). **DO NOT** exceed this amount in any use pattern: single application, replant or sequential application
- **DO NOT** exceed a total of 2.5 pounds metolachlor or S-metolachlor per acre per year from this or any other products containing metolachlor or S-metolachlor.
- **DO NOT** apply this product through any type of irrigation system
- **DO NOT** harvest within 90 days of the last application of Tribal.
- **DO NOT** graze or feed treated soybean forage, hay or straw to livestock.
- Only soybeans may be planted immediately after harvest, follow instructions under **CROP ROTATION INTERVALS (Table 8)** for all other crops.
- **DO NOT** allow sprays to drift onto adjacent desirable plants.
- To assure that spray will not adversely affect adjacent sensitive non-target plants, apply Tribal by aircraft at a minimum upwind distance of 400 feet from sensitive plants.
- **DO NOT** apply under conditions which favor runoff or wind erosion of soil containing this product to non-target areas.
- To prevent off-site movement due to run-off or wind erosion:
  - Avoid treating powdery dry or light sand soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.
  - **DO NOT** apply to impervious substrates such as paved or highly compacted surfaces.
  - **DO NOT** use tailwater from the first flood or furrow irrigation of treated fields to treat non-target crops unless at least 1/2 inch of rainfall has occurred between application and the first irrigation.
- **DO NOT** apply using low-pressure and high-volume hand-wand equipment.
- Observe all restrictions, precautions and limitations on labeling of all products used in mixtures.

Use of this product in certain portions of California, Oregon, and Washington is subject to the January 22, 2004 Order for injunctive relief in Washington Toxics Coalition, et al. v. EPA, C01-0132C, (W.D. WA). For further information, please refer to <https://www.epa.gov/endangered-species/endangered-species-case-washington-toxics-coalition-v-epa>

### Precautions

Injury to soybeans may occur when this product is used under the following conditions:

1. When soils have a calcareous surface area or a pH of 7.5 or higher.
2. When applied in conjunction with soil-applied organic phosphate pesticides.
3. With over-application or boom overlapping, which may result in stand loss and soil residues.
4. With uneven application or improper incorporation, which can decrease the level of weed control and/or increase the level of injury.
5. When applied to any soil with less than 0.5% organic matter.
6. When soil incorporation is deeper than recommended.
7. When sprayers are not calibrated accurately.
8. When heavy rains occur soon after application, especially in poorly drained areas where water may stand for several days.
9. When soybeans are planted less than 1.5 inches deep, particularly in preemergence application.
10. Where high soil levels of atrazine are present.
11. When using poor quality soybean seed.
12. When applied to open seed furrows or any other situation that might allow the herbicide to come in contact with the germinating seed or seedling.

Certain soybean varieties are sensitive to metribuzin. Prior to use of this product, consult your soybean seed supplier for more information on the tolerance of soybean varieties to Tribal.

### Soil Texture and Rate Ranges

As used on this label,

- “Coarse soils” are loamy sand or sandy loam soils.
- “Medium soils” are loam, silt loam, silt, sandy clay, or sandy clay loam.
- “Fine soils” are silty clay, silty clay loam, clay, or clay loam.

Silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions of the U.S.

Where a rate range is shown, use a lower rate on soils that are coarse-textured and/or low in organic matter. Use a higher rate on soils that are relatively fine-textured and/or high in organic matter.

### Activation

A minimum amount of soil moisture is required to activate this product. In areas of low rainfall, preemergence applications to dry soil should be followed with light irrigation of 0.25 acre-inch of water. **DO NOT** apply heavy irrigation immediately after application. As with many surface-applied herbicides, weed control and crop tolerance may vary with rainfall and/or soil texture.

### Replanting

If replanting is necessary in fields treated with this product as directed on this label, the field may be replanted to soybeans. Rework the soil no deeper than the treated zone.

#### Replanting Restrictions:

- **DO NOT** apply more than once per season except where permitted as part of a sequential application, as injury to soybeans may occur.
- **DO NOT** apply a second application of Tribal or any product that contains metolachlor, metribuzin, sulfentrazone, or S-metolachlor, as crop injury or illegal residues may occur in harvested soybeans.
- Maximum application rate is 4.5 pints of Tribal per acre per use season (equivalent to 0.2 pound sulfentrazone, 1.85 pounds S-metolachlor, and 0.35 pound metribuzin). Follow lower regional maximum rates where applicable. Do not exceed these amounts in any use pattern: single application, replant or sequential application.

**Table 1: Annual Broadleaf Weeds Controlled by Tribal**

C = Control S = Suppression or Erratic Control P = Poor or No Control

Weed Controlled	Level of Control
Bristly starbur ( <i>Acanthospermum hispidum</i> )	C
Buffalobur ( <i>Solanum rostratum</i> )	C
Carpetweed ( <i>Mollugo verticillata</i> )	C
Cocklebur ( <i>Xanthium pensylvanicum</i> )	S

Common chickweed ( <i>Stellaria media</i> )	C
Copperleaf, hophornbeam ( <i>Acalypha ostryifolia</i> )	C
Eclipta ( <i>Eclipta prostrata</i> )	C
Field pennycress ( <i>Thlaspi arvense</i> )	C
Florida beggarweed ( <i>Desmodium tortuosum</i> )	C
Florida pusley ( <i>Richardia scabra</i> )	C
Galinsoga ( <i>Galinsoga</i> spp.)	C
Horseweed (Marestail) ( <i>Conyza canadensis</i> )	S
Jimsonweed ( <i>Datura stramonium</i> )	C
Knotweed ( <i>Polygonum</i> spp.)	C
Kochia ( <i>Kochia scoparia</i> )	C
Lambsquarters ( <i>Chenopodium</i> spp.)	C
Morningglory	
Entireleaf ( <i>Ipomoea hederacea</i> var. <i>integriscula</i> )	S
Ivyleaf ( <i>Ipomoea hederacea</i> )	S
Pitted ( <i>Ipomoea lacunosa</i> )	S
Smallflower ( <i>Jacquemontia tamnifolia</i> )	C
Tall ( <i>Ipomoea purpurea</i> )	S
Nightshade	
Black ( <i>Solanum nigrum</i> )	S
Eastern black ( <i>Solanum ptycanthum</i> )	C
Hairy ( <i>Solanum villosum</i> )	C
Pigweed ( <i>Amaranthus</i> spp)	C
Poinsettia, wild ( <i>Euphorbia cyathophora</i> )	C
Prickly lettuce ( <i>Lactuca serriola</i> )	C
Prickly sida/Teaweed ( <i>Sida spinosa</i> )	C
Purslane ( <i>Portulaca oleracea</i> )	C
Ragweed	
Common ( <i>Ambrosia artemisiifolia</i> )	C
Giant ( <i>Ambrosia trifida</i> )	S
Redweed ( <i>Melochia corchorifolia</i> )	C
Russian thistle ( <i>Salsola kali</i> )	C
Sesbania ( <i>Sesbania</i> spp.)	C
Shepherd's-purse ( <i>Capsella bursa-pastoris</i> )	C
Sicklepod ( <i>Cassia obtusifolia</i> ) <sup>1</sup>	C
Smartweeds ( <i>Polygonum</i> spp.)	
Ladysthumb ( <i>Polygonum persicaria</i> )	C
Pennsylvania ( <i>Polygonum pensylvanicum</i> )	C
Spurge	
Prostrate ( <i>Euphorbia humistrata</i> )	C
Spotted ( <i>Euphorbia maculata</i> )	C
Spurred anoda ( <i>Anoda cristata</i> )	C
Sunflower ( <i>Helianthus</i> spp.)	C
Velvetleaf ( <i>Abutilon theophrasti</i> )	C
Venice mallow ( <i>Hibiscus trionum</i> )	C
Virginia pepperweed ( <i>Lepidium virginicum</i> )	C
Waterhemp ( <i>Amaranthus rudis</i> )	C
Wild mustards ( <i>Brassica</i> spp.)	C

<sup>1</sup>For maximum control of sicklepod, use a preemergence application.

**Table 2: Annual Grasses and Sedges Controlled by Tribal**

C = Control S = Suppression or Erratic Control P = Poor or No Control

Weed Controlled	Level of Control
Barnyardgrass ( <i>Echinochloa crus-galli</i> )	C
Bluegrass ( <i>Poa annua</i> )	C
Broadleaf signalgrass ( <i>Brachiaria platyphylla</i> )	C
Browntop millet ( <i>Panicum ramosa</i> )	C
Crabgrass ( <i>Digitaria</i> spp.)	C
Crowfootgrass ( <i>Dactyloctenium aegyptium</i> )	C
Cupgrass ( <i>Eriochloa</i> spp.)	C
Foxtails ( <i>Setaria</i> spp.)	C



Goosegrass ( <i>Eleusine indica</i> )	C
Johnsongrass, seedling ( <i>Sorghum halepense</i> )	S
Junglerice ( <i>Echinochloa colona</i> )	C
Nutsedge	
Yellow ( <i>Cyperus esculentus</i> )	S
Purple ( <i>Cyperus rotundus</i> )	S
Panicum,	
Fall ( <i>Panicum dichotomiflorum</i> )	S
Texas ( <i>Panicum, texanum</i> )	S
Red rice ( <i>Oryza sativa</i> )	S
Sandbur ( <i>Cenchrus</i> spp.)	S
Shattercane ( <i>Sorghum bicolor</i> )	S
Sorghum, volunteer ( <i>Sorghum</i> spp.)	S
Sprangletop ( <i>Leptochloa</i> spp.)	P
Stinkgrass ( <i>Eragrostis</i> spp.)	P
Wheat, volunteer ( <i>Triticum</i> spp.)	P
Witchgrass ( <i>Panicum capillare</i> )	C

### TRIBAL USE RATES FOR CONVENTIONAL TILLAGE SYSTEMS

#### Tribal used alone in Preplant Incorporated Application

Incorporate Tribal uniformly into the top 2 inches of soil within 14 days before planting using a disk, field cultivator, rolling cultivator or similar equipment. Use incorporated application if furrow irrigation is used or when a period of dry weather after application is expected.

#### Tribal used alone in Preemergence Application

When used alone, Tribal can be applied as an aerial broadcast or as a ground broadcast. Application may be made during planting, or as a separate operation after planting, but must be made before crop emergence. If dry weather follows preemergence application, cultivate uniformly with shallow tilling equipment that will not damage soybeans.

#### Preemergence Application Restrictions

- **DO NOT** apply to sandy soils, or to sandy loam or loamy sand soils containing less than 2% organic matter.
- **DO NOT** incorporate into soil or apply more than once per season.

**Table 3: Tribal Rate When Used Alone in Preplant or Preemergence Application**

Soil Texture		Organic Matter		
		0.5 to 2.0%	2.1 to 3.0%	Over 3.0% <sup>3</sup>
		Pints of Tribal Per Acre		
Coarse Soils <sup>1</sup>	Sandy Loam	n/a <sup>1</sup>	2.4 <sup>4</sup>	2.4 to 2.8
	Loamy Sand	n/a <sup>1</sup>	2.4 <sup>4</sup>	2.4 to 2.8
Medium Soils (Loam, silt loam, silt, sandy clay, sandy)		2.8 to 3.2		3.2 to 3.7
Fine Soils (Silty clay, silty clay loam <sup>2</sup> , clay, clay loam)		3.7 to 4.2 <sup>5</sup>		4.2 to 4.5

<sup>1</sup> **DO NOT** use on sandy soils. On coarse-textured soils, **DO NOT** use on sandy loam or loamy sand with less than 2% organic matter.

<sup>2</sup> Silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions of the U.S.

<sup>3</sup> For preplant incorporated application, use the lower rate.

<sup>4</sup> For AL, AR, FL, GA, LA, MS, MO, NC, OK, SC, TN, TX, VA, see section below **In Coarse (Light) Soils**.

<sup>5</sup> On soils with pH above 7.0, soybean injury caused by the metribuzin in this product may occur at rates higher than 2.5 pints per acre. To avoid injury, **DO NOT** use this product at rates greater than 2.5 pints per acre on soils above pH 7.0.

#### In Coarse (Light) Soils

(Only in AL, AR, FL, GA, LA, MS, MO, NC, OK, SC, TN, TX, VA)

This product may be used at the rates specified in **Table 4** as a preplant incorporated or preemergence application in coarse-textured, low organic matter soils in the states listed above. Refer to **Table 4** and to the appropriate sections of



this label for specific directions on use and restrictions.

**Table 4: Tribal Rates When Used Alone in Preplant or Preemergence Applications on Coarse Soils (Only in AL, AR, FL, GA, LA, MS, MO, NC, OK, SC, TN, TX, VA)**

Soil Texture		Organic Matter	
		0.5 to 1.0%	1.1% or above
		Pints of Tribal Per Acre <sup>2,3</sup>	
Coarse Soils	Sand	n/a <sup>1</sup>	1.9 to 3.2
	Sandy loam, Loamy sand	1.9 to 3.2	1.9 to 3.2

<sup>1</sup> **DO NOT** use on sand with less than 1% organic matter.

<sup>2</sup> Use the higher rate under heavy weed pressure and/or soils higher in organic matter.

<sup>3</sup> Follow regional use rate restrictions above.

### HERBICIDES APPLIED POSTEMERGENCE FOLLOWING TRIBAL

If required, application of this product alone or in tank mixture may be followed by an application of a postemergence herbicide to provide additional control of certain weeds.

Refer to the **Directions for Use** on this label and the individual product labels for use directions, use rates, and special precautions and/or restrictions.

### BURNDOWN WEED CONTROL

This product can be used as part of a burndown herbicide program for control of existing vegetation prior to soybean emergence in conservation tillage (reduced-tillage/no-till) systems. This product may be tank mixed with a 2,4-D low volatile ester (LVE) and/or glyphosate herbicides for control of emerged weeds prior to crop emergence. Burndown tank mixes with Tribal can be applied before planting or prior to crop emergence.

#### Application

This product may be applied up to 30 days before planting or preemergence. Apply only by ground equipment when this product is used for burndown of existing vegetation in conservation tillage systems. Use the high end of the rate range for applications of this product made 14 to 30 days before planting. Refer to **Tables 3 and 4** for rates of Tribal alone and to **Table 5** for rates of tank mix partners.

#### Restrictions

**DO NOT** apply these treatments after crop emergence. Observe all precautions and limitations on the labeling of all products used in tank mixtures.

- Apply only 2,4-D LVE formulations that are registered for preplant or burndown use.
- **DO NOT** apply tank mixtures containing 2,4-D LVE if wind is blowing toward desired susceptible plants (i.e., cotton, tobacco, tomato, etc.) or when wind speeds exceed 6 mph. Observe all precautions and limitations of all products used in tank mixtures.

Follow the most restrictive preharvest interval of all products used in a tank mixture.

#### Weeds Controlled

Tribal in tank mixtures with the herbicides listed in Table 5 will provide burndown control of the weeds listed below.

**TABLE 5: WEEDS CONTROLLED WITH TANK MIXES OF TRIBAL IN BURNDOWN APPLICATION**

Weeds Controlled	2,4-D LVE	Glyphosate	Glyphosate + 2,4-D LVE
<b>Annual Grasses</b>	<b>Maximum Burndown Height (Inches)</b>		
Barley	Does not improve control of these species		8
Barnyardgrass			6
Crabgrass spp.			6
Foxtail spp.			8

Johnsongrass, Seedling		8	
Panicum, Fall		6	
Sandbur, Field		8	
Wheat, Volunteer		6	
Witchgrass		6	
<b>Broadleaves</b>	<b>Maximum Burndown Height (Inches)</b>		
Buffalobur	-	6	6
Chickweed, Common	6	6	6
Cocklebur, Common	6	6	8
Dandelion, Common	6 dia.	2 dia.	6 dia
Henbit	4	4	4
Horseweed (Marestail)	6	4	6
Jimsonweed	6	6	6
Kochia	4	4	4
Ladysthumb	6	6	8
Lambsquarters, Common	6	6	8
Lettuce, Prickly	6	4	6
Mallow, Venice	6	6	6
Morningglory spp.	6	2	4
Mustard spp.	6	6	8
Pennycress, Field	6	6	6
Pigweed spp. (annual)	6	6	8
Ragweed, Common	6	6 <sup>2</sup>	8
Ragweed, Giant	6 <sup>1</sup>	4 <sup>2</sup>	6
Shepherd's Purse	6	6	6
Sida, Prickly	6	4	4
Smartweed, Pennsylvania	6	6	8
Sunflower, Common	6	6	6
Thistle, Russian	4	2 to 4	4
Velvetleaf	6	6	8
Waterhemp spp.	6	6	8

## TRIBAL USE RATES FOR REDUCED- AND NO-TILL SYSTEMS

### Preplant Surface Application

Tribal may also be used in reduced-till and no-till systems. Applications may be made up to 30 days before planting or after planting, but before soybean emergence. Residual herbicides may be tank mixed for additional weed control. If weeds are present at time of application, burndown herbicides may be added to the tank mixes (see Burndown Weed Control section). Refer to the tank mix partner product labels for specific rates and use directions.

**Table 6: Tribal Rates for Reduced and No-Till Systems**

Soil Texture <sup>1</sup>	Tribal (Pints Per Acre) <sup>1, 4</sup>
Coarse <sup>2</sup> (Loamy sand, sandy loam)	1.9 to 3.2
Medium (Loam, silt loam, silt, sandy clay, sandy clay loam)	3.2 to 4.5 <sup>5</sup>
Fine (Silty clay, silty clay loam <sup>3</sup> , clay, clay loam)	4.5 <sup>5</sup>

<sup>1</sup> Use low rate in specified range for low residue level or soils with less than 3% organic matter. Use the higher rate in specified range for high residue level or soils with greater than 3% organic matter.

<sup>2</sup> **DO NOT** use on sand soils. On coarse-textured soils, **DO NOT** use on loamy sand soils with less than 2% organic matter.

<sup>3</sup> Silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions of the U.S. When using Tribal, treat this soil as fine-textured.

<sup>4</sup> The rotation restrictions in **Table 8** must be observed.

<sup>5</sup> On soils with pH above 7.0, soybean injury caused by the metribuzin in this product may occur at rates higher than 2.5 pints per acre. To avoid injury, **DO NOT** use this product at rates greater than 2.5 pints per acre on soils above

pH 7.0.

## TRIBAL SEQUENTIAL APPLICATION

More consistent control of broadleaf and grass weeds may be obtained by an early preplant (surface-applied or shallow incorporated) application of Tribal, followed by a second preemergence application after planting but before soybean emergence. A sequential application will decrease the need for tillage and/or burndown herbicides for the control of existing vegetation before planting, while providing residual control of weeds after planting.

### Application

An early preplant application may be made 15 to 30 days before planting soybeans. Follow this application with a preemergence overlay application of Tribal after planting but before crop emergence. Follow directions on this label for sequential applications from 0 to 14 days before planting.

Where a rate range is listed, use the higher rates:

- In fields with a history of severe weed pressure.
- When the time between early preplant and preemergence overlay applications approaches the maximum 30 days.
- When the organic matter content of the soil is over 3%.
- When heavy crop residues are present on the soil surface.

### Restriction:

Sequential Tribal applications must not exceed 4.5 pints per acres per season (See Soybean application instructions under restrictions).

When weeds exceed 1.0 to 1.5 inches in height or diameter at application, use a burndown herbicide, such as glyphosate, paraquat or 2,4-D.

### Weeds Controlled

In addition to weeds controlled by Tribal alone, the sequential application improves control of the following annual broadleaf weeds: buffalobur, cocklebur, common ragweed, velvetleaf, and sunflower.

**Table 7: Tribal Sequential Use Rates for Reduced-Till and No-Till Systems (Broadcast Rates)**

Soil Texture <sup>1</sup>	Early Preplant Application (Pts/A) <sup>2</sup>	-Followed By-	Preemergence Overlay Application Tribal (Pts/A) <sup>2</sup>
Coarse <sup>1</sup> (Sand, loamy sand,	1.9 to 2.8 <sup>†</sup>	-followed by-	0.4 to 1.4
Medium (Loam, silt loam, sandy clay loam, silt, sandy clay)	2.4 to 3.2 <sup>†</sup>	-followed by-	0.9 to 1.9
Fine (Silty clay loam <sup>3</sup> , clay loam, silty clay, clay)	2.8 to 4.1 <sup>†</sup>	-followed by-	1.4 to 2.4

<sup>1</sup> On coarse-textured soils, **DO NOT** use on sandy soils with less than 1% organic matter. However, on coarse-textured soils with a calcareous surface area or a pH of 7.5 or higher, **DO NOT** use on sandy soils with less than 2% organic matter, or on loamy sand or sandy loam soils with less than 1% organic matter.

<sup>2</sup> Total not to exceed 4.5 pints of Tribal per acre per use season. (This is the equivalent of 0.197 lb a.i./A of sulfentrazone) The rotation restrictions in **Table 8** must be observed.

<sup>3</sup> Silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions of the U.S. When using Tribal, treat this soil as "fine-textured".

<sup>†</sup> Maximum single application rate per soil type

## CROP ROTATION INTERVALS

Only rotational crops harvested at maturity may be used for feed or food.

**Table 8: Crop Rotation Intervals**

Crop	Crop Rotation Intervals (Months)
Alfalfa	12
Asparagus	12

Barley Spring	8
Barley Winter	4.5
Canola	24
Clover	18
Cotton	18 or 12*
Edible beans	12
Field Corn	10
Field Corn (Seed)	10
Flax	18
Forage Grasses	12
Lentils	12
Lettuce	18
Lima Beans (TN only)	12
Oats	12
Peanuts	12
Peas	8
Popcorn	18
Potatoes	12
Rice	10
Rootcrops (Group 1B) except Potatoes, Sugar Beets	18
Rye	12
Sainfoin	12
Sorghum	18 or 12**
Southern peas	12
Soybeans	0
Sugar Beet	36
Sugarcane	12
Sunflower	12
Sweet Corn	18
Tobacco	12
Tomatoes	18 (12 transplant only)
Wheat Spring	8
Wheat Winter	4.5
Other Crops not listed in this table	12

\* Cotton may be planted after 12 months where Tribal was applied at rates 4.5 pints per acre or less and meets the following conditions:

- Medium and fine soils

- pH <7.2
- Rainfall or irrigation must exceed 15" after application of Tribal to rotate to cotton.

\*\* Sorghum may be planted after 12 months where Tribal was applied at rates 5.3 pints per acre or less in the previous cropping season.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in a cool dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully dam up material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. **DO NOT** walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed below. In spill or leak incidents, keep unauthorized people away. Maintaining a spill kit and fire extinguisher on hand and having emergency phone numbers posted will allow you to be prepared for emergencies.

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

**CONTAINER HANDLING:** Nonrefillable container. **DO NOT** reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at 1-877-952-2272 or [www.acrecycle.org](http://www.acrecycle.org). If not recycled, then puncture and dispose of in a sanitary landfill, or other procedures approved by state and local authorities.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

**[For nonrefillable containers up to 5 gallons: 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. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 18 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.]

**[For nonrefillable containers greater than 5 gallons: Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.]

**[For refillable containers:** Refillable container Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at [www.acrecycle.org](http://www.acrecycle.org). If not recycled, then puncture and dispose of in a sanitary landfill, or incineration, or other procedures approved by state and local authorities.]

**For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC – 1-800-424-9300.**

## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS WARRANTED IN THIS LABEL AND TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THIS PRODUCT IS SOLD "AS IS," AND LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE.

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P.O. BOX 1286, GREELEY, COLORADO 80634-1286**

EPA Required updates

Sulfentrazone IRRD 16, UPD '22

S-Metolachlor IRRD '21/'22/'23

S-Metolachlor BiOp'22/'23