

SULFENTRAZONE | CLORANSULAM | GROUP 14 | 2 | HERBICIDES

# Vibrant

**Intended For Use Only by Individuals/Firms Certified as Licensed Pesticide Applicators**

ACTIVE INGREDIENTS:	WT. BY %
Sulfentrazone .....	62.1%
Cloransulam-methyl.....	7.9%
<b>OTHER INGREDIENTS:</b> .....	<b>30.0%</b>
<b>TOTAL:</b> .....	<b>100.0%</b>

Contains 0.7 lb. of active ingredient per lb. of product (0.62 lb. a.i. of sulfentrazone and 0.08 lb. of a.i. of cloransulam-methyl).

## KEEP OUT OF REACH OF CHILDREN CAUTION

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 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>• Do not induce vomiting unless told to by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information concerning this product, call your poison control center at <b>1-800-222-1222</b> .	

See label booklet for complete Precautionary Statements, Directions For Use, and Storage and Disposal.

Manufactured For:

Sharda USA LLC 

7217 Lancaster Pike, Suite A  
Hockessin, Delaware 19707

EPA Reg. No. 83529-101  
EPA Est. No.  39578-TX-001  
 62171-MS-001

**Net Contents: 10 Lbs.**

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

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. 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)**

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Shoes plus socks
- Protective eyewear

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.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not use or store near heat or open flame. Do not mix or allow coming in contact with oxidizing agent. Hazardous chemical reaction may occur.

**USER SAFETY RECOMMENDATIONS**

**Users should:**

- Wash hands thoroughly after handling and 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 the product. Wash the outside of gloves (if worn) before removing. As soon as possible, wash thoroughly and change into clean clothing.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

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.

**ATTENTION**

- It is the user's responsibility to be aware of and to follow all State or local precautions or restrictions not appearing on this product label.
- Although this label may appear similar to the label on a product you may have used, there may be important label differences. Users must read, understand and strictly follow all label directions, precautions and restrictions.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to marine/estuarine invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to terrestrial and aquatic plants in neighboring areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

**Groundwater Advisory:** This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Do not use on coarse soils classified as sand which have less than 1% organic matter.

**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 several to 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 overlying tile drainage systems that drain to surface waters.

#### 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.**

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 over long-sleeved shirt and long pants
- Shoes plus socks

#### PRODUCT INFORMATION

**Vibrant** is for pre-emergence control of broadleaf and grass weeds in soybeans only.

The herbicide acts by uptake of the product through the weed roots and shoots. Applications of **Vibrant** made pre-emergence and pre-plant incorporated require rainfall or irrigation to activate the herbicide. The amount of rainfall or irrigation necessary for activation after a treatment depends on existing soil moisture, organic matter content and soil texture. If adequate moisture ( $\frac{1}{2}$ " to 1") is not received within 7 to 10 days following the application of **Vibrant**, a shallow cultivation may be necessary to obtain desired control. When sufficient moisture is received, **Vibrant** will provide control of susceptible germinating weeds.

**Vibrant** shows excellent crop safety. Poor growing conditions (ex. excess soil moisture, cool temperatures, soil compaction or the presence of various pathogens) may impact seedling vigor. Like other soil-applied herbicides, under these conditions the active ingredients in **Vibrant** can contribute to adverse crop response. These early symptoms are typically short-lived.

Observe all instructions, crop restrictions, mixing directions, application precautions, replanting directions, rotational crop guidelines and other label information of each product when tank mixing with **Vibrant**.

#### PRECAUTIONS:

- Back to back treatments of ALS or products that contain an ALS herbicide can occasionally result in residual herbicide build-up and potential crop injury. Applicator and grower are responsible and must be aware of previous herbicide use and potential interaction it may have with this product application.
- Ensure the seed furrow is closed and the seed is covered on acres treated with this product.
- Soybean stunting may result if excessive rainfall occurs following treatment, but before soybean emergence. Injury is more prevalent under poor drainage or compacted soil conditions or when soil is saturated for long periods of time. Soybeans outgrow stunting once favorable conditions return.
- Seedling disease, nematodes, cold weather, deep planting (greater than 2 inches), excessive moisture, high salt concentration, or drought may weaken soybean seedlings and increase the possibility of crop injury.

#### RESTRICTIONS

- Do not apply this product if there are visible signs of cracking due to soybean emergence or serious crop injury may occur (ex. crop injury and varying stand loss).
- 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.

#### WEED RESISTANCE MANAGEMENT

**Vibrant** contains two active ingredients, sulfentrazone and cloransulam-methyl; which are classified as a Group 14 herbicide (PPO-inhibitor), and a Group 2 herbicide (ALS-inhibitor), respectively. Any weed population may contain plants naturally resistant to Group 14 or Group 2 herbicides. Such resistant weed plants may not be effectively managed using Group 14 or Group 2 herbicides but may be effectively managed utilizing another herbicide alone or in mixtures from a different Group and/or by using cultural or mechanical practices. However, any herbicide mode of action classification by itself may not adequately address specific weeds that are resistant to specific herbicides. Consult your Sharda USA LLC representative, State Cooperative Extension service, professional consultants, or other qualified authorities to determine appropriate actions for treating specific resistant weeds.

#### Best Management Practices

Proactively implementing diversified weed control strategies to minimize selection for weed populations resistant to one or more herbicides is recommended. A diversified weed management program may include the use of multiple herbicides with different modes of action and overlapping weed spectrum with or without tillage operations and/or other cultural practices. Research has demonstrated that using full labeled rates and following directions for use is important to delay the selection for resistance. Scouting after an herbicide application is important because it can facilitate the early identification of weed shifts and/or weed resistance and thus provide direction on future weed management practices. One of the best ways to contain resistant populations is to implement measures to avoid allowing weeds to reproduce by seed or to proliferate vegetatively. Cleaning equipment between sites and avoiding movement of plant material between sites will greatly aid in retarding the spread of resistant weed seed.

#### General principles of herbicide resistance management

1. Practice integrated weed management. Use multiple herbicide modes-of-action with overlapping weed spectrums in rotation, sequences, or mixtures.
2. Use the full labeled herbicide rate and proper application timing for the hardest to control weed species present in the field.
3. Scout fields after herbicide application to ensure control has been achieved. Avoid allowing weeds to reproduce by seed or to proliferate vegetatively.
4. Monitor site and clean equipment between sites.

#### For annual cropping situations, also consider the following:

- Start with a clean field and control weeds early by using a burndown treatment or tillage in combination with a pre-emergence residual herbicide as appropriate.
- Use cultural practices such as cultivation and crop rotation, where appropriate.
- Use good agronomic principles that enhance crop competitiveness.
- Use new commercial seed that is as free of weed seed as possible.

#### Proper Handling Instructions

This product may not be mixed or loaded within 50 feet of any wells (including abandoned wells and drainage wells), sink holes, perennial or intermittent streams and rivers, and natural or impounded lakes and reservoirs. 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, that 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 specific 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.

Do not apply this product through any type of irrigation system. Do not use flood irrigation to apply or incorporate this product.

Product must be used in a manner that will prevent back siphoning in wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.

#### ROTATIONAL CROP GUIDELINES

Crop intervals are shown in the table below, and are from the time of treatment of **Vibrant** until fields treated with **Vibrant** may be replanted with the crops listed. Cover crops that are planted for soil health or erosion control may be planted at any time following a treatment of this product, but crops may not be harvested for food or feed. Residual activity of **Vibrant** may result in injury to some cover crop species if they are planted shortly after treatment. Consult your local Cooperative Extension service for cover crop sensitivity to this product. When **Vibrant** is tank mixed with other herbicide(s), consult all the product labels for re-cropping instructions, you must follow the intervals that are the most restrictive. For crops not listed, the interval is 30 months in addition to conducting a successful field bioassay.

Crop	Interval (Months)
Soybeans	Anytime
Wheat	4
Corn (Field, Pop, Seed) <sup>1</sup> , Rice	10
Beans (Dry Shelled), Peas (Dry Shelled and Succulent),	9
Alfalfa, Barley, Beans (Lima), Oats, Peanuts, Rye, Snap beans, Sorghum	12
Cotton	18 or 12*
Corn (Sweet), Potatoes	18
Canola	24
Sugarbeets <sup>1</sup> , Sunflower <sup>1</sup> , Tobacco <sup>2</sup>	30

<sup>1</sup>These crops require a 30-month rotational interval and conducting a successful field bioassay.

<sup>2</sup>Transplanted tobacco may be planted 10 months after application of a maximum use rate of 3 oz. of **Vibrant** per acre. Tobacco in seedbed nurseries may be replanted 18 months after an application of 3 oz. of **Vibrant** per acre and following a successful field bioassay. A rotational interval of 30 months and conducting a successful field bioassay is required for all treatments of **Vibrant** greater than 3 oz. per acre.

\*Cotton may be planted 12 months following an application of **Vibrant** at rates of 5 oz./acre or less and meeting the following:

- Medium and fine soils
- Soil pH < 7.2
- Rainfall or irrigation must exceed 15" after application of **Vibrant**.

#### Replanting Instructions

Soybeans may be replanted in fields treated with **Vibrant** alone if the initial planting of soybeans fails to produce a uniform stand. When tank mixing with an EPA-registered product, see the replant instructions on the label for the specified product.

When a tank mix is used, consult the product's labels for any additional replant instructions. 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.

#### Restrictions:

- Do not re-treat fields with a second application of **Vibrant**.
- Do not replant treated fields with any crop at intervals that are inconsistent with the rotational crop guidelines on the label for **Vibrant**.

#### APPLICATION INFORMATION

##### Ground Application

Apply using a standard low-pressure herbicide boom sprayer equipped with suitable nozzles and screens. Make a uniform application using properly calibrated nozzles (10 to 40 PSI) and screens and strainers no finer than 50 mesh. Use 10 to 40 gallons of spray volume per acre.

Continuous agitation throughout the treatment is required. Do not swath overlaps. Shut off spray booms when turning, slowing or stopping as over application may result.

To avoid injury to sensitive crops, spray equipment used for treatment of **Vibrant** must be drained and thoroughly cleaned with water plus ammonia or detergent before to being used to apply other products. Refer to the **Sprayer Equipment Clean-Out** section.

**Avoid all direct and/or indirect spray contact with non-target plants.** Provide adequate distance between target area and desirable plants to minimize exposure.

#### RESTRICTIONS:

- Do not apply to crops other than soybeans. Make treatment with ground sprayers only.
- Do not exceed 40 PSI spray pressure unless otherwise required by the spray nozzle manufacturer.
- Do not allow spray mixtures of **Vibrant** to sit overnight as settling of product and difficulty of re-suspending may result.
- Do not make application near desirable vegetation.

### **Runoff and Wind Erosion Directions**

**Do not apply under conditions that favor runoff or wind erosion of soil that contains Vibrant to non-target areas. To prevent off-site movement due to runoff or wind erosion:**

- Avoid treating powdery dry or light sandy soils when conditions are favorable for wind erosion. Under these conditions, allow the soil surface to be settled by rainfall or irrigation.
- Do not apply to impervious substrates such as paved or highly compacted surfaces or frozen or snow-covered ground.
- Do not apply to soils when saturated with water.
- Do not use tailwater from the first flood or furrow irrigation of treated fields to treat non-target crops unless at least ½ inch of rainfall has occurred between treatment and the first irrigation.

### **SPRAY DRIFT REDUCTION ADVISORY**

Avoiding spray drift at the application site is the responsibility of the applicator and the grower. 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.

The following drift management requirements must be followed to avoid off-target drift movement from applications to agricultural field crops. Where states and local governments have more stringent regulations, they must be observed.

#### **Droplet Size Information**

Reduce drift potential by applying large droplets. The optimum drift management strategy is to apply the largest droplets that will provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift when applications are made improperly, or under unfavorable environmental conditions (see **Wind**, **Temperature and Humidity**, and **Temperature Inversions**).

- **VMD:** VMD is the expression of the droplet size of the spray cloud. The VMD value means that 50% of the droplets are larger than the expressed value and 50% of the droplets are smaller than the expressed value. Optimum spray clouds should be 450 microns with fewer than 10% of the droplets being 200 microns or smaller.
- **Volume:** Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows usually produce larger droplets.
- **Pressure:** Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of Nozzles:** Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle Type:** Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low drift nozzles.
- **Application Height:** Making applications at the lowest height practical reduces exposure of spray droplets to evaporation and wind movement.

#### **Wind**

Drift potentials are lowest between wind speeds of 3 to 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given wind speed. Applications in wind conditions outside of this range could increase the risk of off-target effects and should be avoided. **Note:** Local terrain can influence wind patterns. Every applicator must be familiar with local wind patterns and how they affect spray drift.

#### **Temperature and Humidity**

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

#### **Temperature Inversions**

Do not apply **Vibrant** during temperature inversions because the drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the following morning. Their presence can be indicated by ground fog. However, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or a smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicate an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

#### **Sensitive Areas**

Applications must be made when the wind is blowing away from adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, and non-target crops).

### **MIXING INSTRUCTIONS AND LOADING INSTRUCTIONS**

#### **Vibrant Applied Alone**

See the **Timing and Method of Application** section of this label to select the proper application rate for **Vibrant**. Fill the spray tank with approximately ½ the volume of water required for the area being treated. While the agitator is operating, add the specified amount of **Vibrant** for area being treated by opening the container and measuring directly into the spray tank. Allow the product to fully disperse. Complete the addition of spray water. Continue agitation while filling, mixing and application. Make application of **Vibrant** immediately after mixing. Do not store spray tank mixture.

### Vibrant Applied in Tank Mix Combination

Refer to the **Timing and Method of Application** section of label to select the proper application rate for **Vibrant**. Read and follow all applicable use directions, precautions and restrictions on the respective tank mix product labels. To ensure product compatibility, a jar test must be conducted before large volume mixing and use on the entire field. Prepare the tank mixture as directed below if the jar test indicates the mixture is compatible.

Fill the spray tank with approximately ½ the volume of water required for the area being treated. With the agitator operating, add the directed amounts of **Vibrant** for the area being treated by measuring directly into the spray tank. Allow the product to fully disperse. Next add the directed amount(s) of the additional tank mix product(s) in the order below:

1. Dry formulations (e.g., wettable powders, dry flowables);
2. Liquid suspensions (e.g., flowables); and
3. Liquids (e.g., ECs).

Allow time for complete mixing and dispersion after each addition, adding water as necessary. Complete the addition of spray water. Continue agitation while filling, mixing and making application. Use tank mixtures of **Vibrant** immediately after mixing. Do not store spray tank mixtures.

### Fertilizer Spray Mixtures

Application of **Vibrant** made alone or in tank mixtures in conjunction with fertilizer solutions may be used unless otherwise directed by product label. Test small quantities for compatibility before use on large scale using following procedure prior to mixing in full spray tank quantities:

1. Add 1 pint of fertilizer solution to a quart jar.
2. Add the specified amount of herbicide based on the table below.
3. If more than one product is to be used, add each separately using the sequence below: dry formulations (e.g., wettable powders, dry flowables) first, liquid suspensions (e.g., flowables) next, and finally liquids (e.g., ECs).

Herbicide Type	Herbicide Field Use Rate	Amount Herbicide Added per Pint*
Wettable Powders Or Dry Flowables	0.5 lb.	0.75 tsp.
	1.0 lb.	1.5 tsp.
	2.0 lbs.	3.0 tsp.
	3.0 lbs.	4.5 tsp.
Emulsifiable Concentrates	1.0 pt.	0.5 tsp.
Liquid Flowables	1.0 qt.	1.0 tsp.
	2.0 qts.	2.0 tsp.
	3.0 qts.	3.0 tsp.

\*Quantity is based on a 25-gallon spray volume per acre; for lower or higher spray volumes, adjust fluid fertilizer amount accordingly.

4. Close jar with lid and shake well.
5. Observe mixture for several seconds, and then again after 5 minutes and after 30 minutes. If herbicide/fertilizer combination remains mixed or can be remixed readily (ex. does not permanently separate, foam, gel or become lumpy), the mixture is compatible and can be mixed in full volumes and sprayed. If the mixture is compatible, prepare spray by adding fertilizer solution to the tank first, and follow the directions noted below.

### Vibrant Applied Alone with Liquid Fertilizer

**Vibrant** must be pre-mixed in a slurry of product and clean water, prior to adding to a liquid fertilizer carrier. Fill the spray tank one-half full with the fertilizer solution. With the agitator operating, add the slurry of **Vibrant** to the spray tank. Use a minimum of one gallon of water for each container of **Vibrant**. Stir until the solution is completely dissolved. Add the slurry to the spray tank through a 20 to 35 mesh screen. Rinse container used for premixing and add rinsate to the spray tank. Complete filling the tank with fertilizer. Continue agitation while filling, mixing and making application. Use the spray mixture of **Vibrant** immediately after mixing. Do not store spray tank mixture.

### Vibrant Applied in Tank Mix Combinations with Fertilizer

Fill the spray tank ½ full with fertilizer solution. With the agitator operating, add the slurry of **Vibrant** as described above. Then dilute the individual tank mix partners with sufficient water to form a free-flowing dispersion, and add to the spray tank with fertilizer. Maintain agitation, add other products in the following order:

1. Dry formulations slurry (wettable powders, dry flowables)
2. Diluted liquid formulations (ECs, flowables)
3. Complete filling the spray tank with fertilizer.
4. Continue agitation while filling, mixing and during application. Use tank mixtures of **Vibrant** immediately after mixing. Do not store spray tank mixtures.

### Sprayer Equipment Clean-Out

The sprayer and application equipment must be thoroughly cleaned using the following procedure after spraying **Vibrant** and before using spray equipment for any other applications:

1. Drain spray tank, hoses, and spray boom and thoroughly rinse the inside of the sprayer tank with clean water to remove residues and sediment. Thoroughly flush spray equipment hoses, boom and nozzles with clean water.
2. Fill the tank ½ full with clean water, and add appropriate detergent or ammonia (follow manufacturer's directions for use). Fill the tank to capacity and operate the sprayer for a minimum of 15 minutes to flush hoses, boom, and nozzles.
3. Thorough cleaning of the sprayer can be achieved by leaving the cleaning solution in the spray tank, hoses, booms and nozzles overnight or during storage.
4. Before using the sprayer, drain the spray system. Rinse the tank with clean water and flush through the hoses, boom, and nozzles. Remove and clean screens and spray tips separately with the detergent or ammonia solution.
5. Properly dispose of all cleaning solution and rinseate in accordance with Federal, State, and local regulations and guidelines.

If small quantities of **Vibrant** remain in mixing, loading and/or spray equipment, they may be released during subsequent applications potentially causing adverse effects to certain crops and other vegetation. Sharda USA LLC accepts no liability for any effects due to equipment that is not cleaned properly.

### Restrictions:

- Do not drain or flush equipment on or near desirable trees or plants.
- Do not contaminate any body of water including irrigation water that may be used on other crops.

### SOYBEANS (CONVENTIONAL AND GMO)

### Timing and Method of Application

Application of **Vibrant** may be made alone or in tank mix combinations for the control of the weeds listed in conventional or GMO soybean varieties. 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.

### Application Rates

Soil Organic Matter <sup>1</sup>	Vibrant (Oz./Acre) <sup>2</sup>	Rate of Vibrant (Lb. a.i./Acre)	
		Sulfentrazone	Cloransulam-methyl
3% or less	6.45	0.25	0.032
greater than 3%	8	0.31	0.04

<sup>1</sup>Do not apply **Vibrant** to soils classified as sand with less than 1% organic matter.  
<sup>2</sup>Maximum application rates: See the **Pre-Plant Surface** and **Pre-Emergence Application** for directions.

### Pre-Plant Incorporated Application

Apply **Vibrant** alone or in tank mix combination with other herbicides registered for pre-plant incorporated treatment to soybeans. Incorporate the herbicide(s) into the top 1 to 3 inches of the final seedbed using equipment that provides thorough soil mixing. Follow the incorporation directions for the tank mix partner(s) when making application of **Vibrant** in tank mix combination with other herbicide(s). Follow applicable use instructions, including application rates, precautions and restrictions of each product used in the tank mixture.

### Pre-Plant Surface Application

**Apply Vibrant alone or in tank mix combination with other herbicides registered for pre-plant soil surface application to soybeans. Follow use directions, including application rates, precautions and restrictions of each product used in the tank mixture when application is made in tank mix combination.**

### Pre-Emergence Application

Make treatment at planting or within 3 days after planting. Apply **Vibrant** alone or in tank mix combination with other herbicides registered for pre-emergence application to soybeans. Follow applicable use directions, including application rates when treatment is made in tank mix combination. Observe the precautions and restrictions of each product used in the tank mixture. **Note:** Apply at ½ the maximum application rate for suppression of weeds in Roundup Ready soybeans, maintaining control with sequential applications of registered post-emergence herbicide products. Apply before planting, at planting or before seed germination. Properly closed seed furrows are required when making treatment at planting or before seed germination. Do not make treatment later than 3 days after planting or after seed germination, as crop injury may result.



**WEEDS CONTROLLED**

When used as directed, **Vibrant** will provide control or suppression of the broadleaf weeds and grasses listed below:

**BROADLEAVES**

<b>Common Name</b>	<b>Scientific Name</b>	<b>Common Name</b>	<b>Scientific Name</b>
Amaranth, Palmer	<i>Amaranthus palmeri</i>	Morningglory, Smallflower	<i>Jacquemontia tannifolia</i>
Amaranth, Spiny	<i>Amaranthus spinosus</i>	Morningglory, Tall	<i>Ipomoea purpurea</i>
Anoda, Spurred	<i>Anoda cristata</i>	Mustard, Wild	<i>Brassica kaber</i>
Beggarweed, Florida	<i>Desmodium tortuosum</i>	Nightshade, Eastern Black	<i>Solanum ptycanthum</i>
Carpetweed	<i>Mollugo verticillata</i>	Nightshade, Hairy	<i>Solanum sarrachoides</i>
Cocklebur, Common	<i>Xanthium strumarium</i>	Nightshade, Silverleaf	<i>Solanum elaeagnifolium</i>
Copperleaf, Hophornbeam	<i>Acalypha ostryifolia</i>	Pigweed, Redroot	<i>Amaranthus retroflexus</i>
Croton, Tropic	<i>Croton glandulosus</i>	Pigweed, Smooth	<i>Amaranthus hybridus</i>
Daisy, American	<i>Eclipta alba</i>	Pigweed, Tumble	<i>Amaranthus albus</i>
Dayflower, Common	<i>Commelina communis</i>	Poorjoe	<i>Diodia teres</i>
Galinsoga, Hairy	<i>Galinsoga ciliata</i>	Purslane, Common	<i>Portulaca oleracea</i>
Groundcherry, Clammy	<i>Physalis heterophylla</i>	Pusley, Florida	<i>Richardia scabra</i>
Groundcherry, Cutleaf	<i>Physalis angulata</i>	Ragweed, Common <sup>2</sup>	<i>Ambrosia artemisiifolia</i>
Horseweed (Marestail) <sup>2</sup>	<i>Conyza canadensis</i>	Ragweed, Giant <sup>2</sup>	<i>Ambrosia trifida</i>
Jimsonweed	<i>Datura stramonium</i>	Senna, Coffee	<i>Cassia occidentalis</i>
Kochia	<i>Kochia scoparia</i>	Smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>
Ladythumb	<i>Polygonum persicaria</i>	Smellmelon	<i>Cucumis melo</i>
Lambsquarters, Common	<i>Chenopodium album</i>	Spurge, Spotted	<i>Euphorbia maculata</i>
Mallow, Venice	<i>Hibiscus trionum</i>	Starbur, Bristly	<i>Acanthospermum hispidum</i>
Mexicanweed	<i>Caperonia castaneifolia</i>	Sunflower, Common	<i>Helianthus annuus</i>
Morningglory, Entireleaf	<i>Ipomoea hederacea integruscula</i>	Teaweed (Prickly Sida)	<i>Sida spinosa</i>
Morningglory, Ivyleaf	<i>Ipomoea hederacea</i>	Thistle, Russian	<i>Salsola kali</i>
Morningglory, Palmleaf	<i>Ipomoea wrightii</i>	Velvetleaf	<i>Abutilon theophrasti</i>
Morningglory, Pitted <sup>1</sup>	<i>Ipomoea lacunosa</i>	Waterhemp, Common	<i>Amaranthus rudis</i>
Morningglory, Purple	<i>Ipomoea turbinata</i>	Waterhemp, Tall	<i>Amaranthus tuberculatus</i>
Morningglory, Red	<i>Ipomoea coccinea</i>		

<sup>1</sup>Suppression or partial control only.

<sup>2</sup>Will not provide control of ALS-resistant biotypes.

(continued)

WEEDS CONTROLLED (continued)			
When used as directed, <b>Vibrant</b> will provide control or suppression of the broadleaf weeds and grasses listed below:			
GRASSES			
Common Name	Scientific Name	Common Name	Scientific Name
Barnyardgrass <sup>1</sup>	<i>Echinochloa crus-galli</i>	Foxtail, Green	<i>Setaria viridis</i>
Broadleaf Signalgrass	<i>Brachiaria platyphylla</i>	Foxtail, Yellow <sup>1</sup>	<i>Setaria lutescens</i>
Crabgrass, Large	<i>Digitaria sanguinalis</i>	Goosegrass	<i>Eleusine indica</i>
Crabgrass, Smooth	<i>Digitaria ischaemum</i>	Johnsongrass, Seedling <sup>1</sup>	<i>Sorghum halepense</i>
Crabgrass, Southern <sup>1</sup>	<i>Digitaria ciliaris</i>	Orchardgrass	<i>Dactylis glomerata</i>
Crowfootgrass <sup>1</sup>	<i>Dactyloctenium aegyptium</i>	Panicum, Fall	<i>Panicum dichotomiflorum</i>
Foxtail, Giant <sup>1</sup>	<i>Setaria faberi</i>	Panicum, Texas	<i>Panicum texanum</i>
SEDGES			
Common Name	Scientific Name	Common Name	Scientific Name
Nutsedge, Purple	<i>Cyperus rotundus</i>	Sedge, Annual	<i>Carex</i> spp.
Nutsedge, Yellow	<i>Cyperus esculentus</i>		

<sup>1</sup>Suppression or partial control only.

#### Reduced Rates - Limited Residual Rates for Planned Sequential Application Program in Soybeans

**Vibrant** may be used at the reduced rates listed below in conjunction with a planned, effective post herbicide program. **Vibrant** at the rates listed below will provide early season control or suppression to reduce early season weed competition. Follow all application directions for **Vibrant**. **Vibrant** may have reduced control of certain ALS-resistant biotypes including marestail, giant ragweed, common ragweed, and cocklebur. If there is documented ALS resistance with the post herbicide in your area, make application with the use rates listed in the full rate **Application Rates** chart above.

Apply before planting, at planting or before seed germination. Properly closed seed furrows are required when making application at planting. Recommended post-emergence applications may include any product or combination of products labeled for use on soybeans.

Reduced Rate Application Rates			
Soil Organic Matter <sup>1</sup>	Vibrant (Oz./Acre)	Rate of Vibrant (Lb. a.i./Acre)	
		Sulfentrazone	Cloransulam-methyl
3% or less	3.00 – 5.00	0.116 – 0.193	0.015 – 0.025
greater than 3%	4.00 – 6.00	0.155 – 0.233	0.020 – 0.030

<sup>1</sup>Do not apply **Vibrant** to soils classified as sand with less than 1% organic matter.

#### Tank Mixes of Vibrant with Sharpen Herbicide for use in Reduced Till or No-Till Soybeans (AL, AR, CO, CT, DE, GA, IL, IN, IA, KS, KY, LA, MD, MI, MN, MS, MO, NE, NH, NJ, NC, ND, OH, OK, PA, SC, SD, TN, VA, WV, WI)

Users must read, understand and follow all label directions, precautions and restrictions for Sharpen Herbicide. To improve burndown of existing broadleaf weeds prior to planting, apply **Vibrant** at labeled use rates with Sharpen at 1 oz. per acre as a pre-plant application in reduced till or no-till soybeans. Apply 14 or more days before soybean planting. See the product label for specific information on use, precautions, restrictions and weeds controlled. Do not use this tank mix on coarse soils with <2% organic matter.

#### Pre-Plant Burndown Application

Application of **Vibrant** at 6.45 to 8 oz. per acre as listed above in the full rate **Application Rates** chart for all soybeans, aids in the burndown of weeds listed below when applied as directed. **Vibrant** can provide improved burndown activity on weeds that have emerged in no-till applications, but is not intended to replace an appropriate pre-plant burndown program. For control of the weeds in the **Weeds Controlled** table in no-till/minimum till fields, **Vibrant** must be tank mixed or used in combination with a full burndown program. The program may include 2,4-D alone or in combination with Aim, dicamba, glyphosate, glufosinate, paraquat, or other appropriate burndown herbicides in tank mixture using the specified appropriate rate for the size and species of weeds present. Reduced rates of **Vibrant** and/or the corresponding burndown partner herbicide(s) can result in weed escapes and unsatisfactory product performance.

Apply in a minimum of 10 gallons per acre spray volume. Thorough coverage is essential. Use a non-ionic surfactant (NIS) that contains at least 80% active ingredient strength at 0.125 - 0.25% v/v (1-2 pints per 100 gallons of spray solution) plus ammonium sulfate (AMS) at 2.5% v/v. Crop Oil Concentrate (COC) and Methylated Seed Oil (MSO) at 1.2% v/v plus ammonium sulfate may be used. Burndown results may be slowed or reduced when environmental factors impact the growth of the weeds just before or after application (ex. temperature extremes, widely fluctuating day and night air temperatures, drought, heat stress or soils with high water content).

**WEEDS CONTROLLED**

When applied as directed for burndown, **Vibrant** will provide control or suppression of the following broadleaf weeds that are up to 3 inches in height.

**BROADLEAVES**

<b>Common Name</b>	<b>Scientific Name</b>	<b>Common Name</b>	<b>Scientific Name</b>
Cocklebur, Common	<i>Xanthium strumarium</i>	Morningglory, Red	<i>Ipomoea coccinea</i>
Horseweed (Marestail) <sup>2</sup>	<i>Conyza canadensis</i>	Morningglory, Smallflower	<i>Jacquemontia tamnifolia</i>
Jimsonweed	<i>Datura stramonium</i>	Morningglory, Tall	<i>Ipomoea purpurea</i>
Mallow, Venice	<i>Hibiscus trionum</i>	Ragweed, Common <sup>2</sup>	<i>Ambrosia artemisiifolia</i>
Morningglory, Entireleaf	<i>Ipomoea hederacea integruscula</i>	Ragweed, Giant <sup>2</sup>	<i>Ambrosia trifida</i>
Morningglory, Ivyleaf	<i>Ipomoea hederacea</i>	Sicklepod	<i>Cassia obtusifolia</i>
Morningglory, Palmleaf	<i>Ipomoea wrightii</i>	Smartweed, Pennsylvania	<i>Polygonum pensylvanicum</i>
Morningglory, Pitted <sup>1</sup>	<i>Ipomoea lacunosa</i>	Sunflower, Common	<i>Helianthus annuus</i>
Morningglory, Purple	<i>Ipomoea turbinata</i>	Velvetleaf <sup>1</sup>	<i>Abutilon theophrasti</i>

<sup>1</sup>For control of velvetleaf, use 28% nitrogen (UAN) or AMS with NIS or COC.

<sup>2</sup>**Vibrant** will not provide control of ALS-resistant biotypes.

**Precautions:**

- Properly closed seed furrows are required when making application at planting or within 3 days after planting.
- Maintain spray tank agitation until the application is completed.

**Restrictions:**

- Do not apply this product through any type of irrigation system.
- Do not apply more than one soil application per acre per year.
- Do not apply more than 8 oz. of **Vibrant** per acre per year as a cumulative total of soil application of **Vibrant** and post-emergence application of other cloransulam-containing herbicides (1 oz. per acre of **Vibrant** contains 0.005 lb. a.i. cloransulam-methyl. Do not apply more than 0.055 lb. a.i. per acre of cloransulam-methyl per year).
- Do not feed treated soybean forage or soybean hay to livestock.
- Pre-Harvest Interval (PHI): Do not harvest soybeans for 65 days after treatment of **Vibrant**.
- Do not apply **Vibrant** to soils classified as sands containing less than 1% organic matter.
- Do not drain or flush equipment on or near desirable trees or plants.
- Do not contaminate any body of water including irrigation water that may be used on other crops.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Keep away from fire and sparks. Store in a cool, dry, well-ventilated area.

**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:**

**Non-Refillable Plastic and Metal Containers (Capacity Equal to or Less Than 50 Pounds):** Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water 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, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration, or by other procedures approved by State and local authorities. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

**Non-Refillable Plastic and Metal Containers (Capacity Greater Than 50 Pounds):** Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration, or by other procedures approved by State and local authorities. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

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**Non-Refillable Paper or Plastic Bags, Fiber Sacks including Flexible Intermediate Bulk Containers (FIBC) or Fiber Drums With Liners:** Non-refillable container. Do not reuse or refill this container. Completely empty paper or plastic bag, fiber sack or drum liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Offer for recycling, if available, or dispose empty paper or plastic bag, fiber sack or fiber drum and liner in a sanitary landfill or by incineration, or by other procedures approved by State and local authorities.

**Refillable Fiber Drums With Liners:** Refillable container (fiber drum only). Refilling Fiber Drum: Refill this fiber drum with this herbicide only. Do not reuse this fiber drum for any other purpose. Cleaning before refilling is the responsibility of the refiller. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Disposing of Fiber Drum and/or Liner: Do not reuse this fiber drum for any other purpose other than refilling (see preceding). Cleaning the container (liner and/or fiber drum) before final disposal is the responsibility of the person disposing of the container. Offer the liner for recycling if available or dispose of liner in a sanitary landfill, or by incineration. Do not burn, unless allowed by State and local ordinances. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner. To clean the fiber drum before final disposal, completely empty the fiber drum by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Then offer the fiber drum for recycling if available or dispose of in a sanitary landfill or by incineration, or by other procedures approved by State and local authorities.

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**CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!**

#### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Sharda USA LLC or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Sharda USA LLC and Seller harmless for any claims relating to such factors.

Sharda USA LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or Sharda USA LLC and Buyer and User assume the risk of any such use. To the extent consistent with applicable law, SHARDA USA LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, neither Sharda USA LLC nor Seller shall be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SHARDA USA LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SHARDA USA LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

Sharda USA LLC and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of Sharda USA LLC.

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# Vibrant

Intended For Use Only by Individuals/Firms Certified as Licensed  
Pesticide Applicators

ACTIVE INGREDIENTS:	WT. BY %
Sulfentrazone .....	62.1%
Cloransulam-methyl.....	7.9%
OTHER INGREDIENTS:.....	30.0%
<b>TOTAL:</b> .....	<b>100.0%</b>

Contains 0.7 lb. of active ingredient per lb. of product (0.62 lb. a.i. of sulfentrazone and 0.08 lb. of a.i. of cloransulam-methyl).

## KEEP OUT OF REACH OF CHILDREN CAUTION

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 SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person. **IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

### HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information concerning this product, call your poison control center at **1-800-222-1222**.

See label booklet for complete Precautionary Statements and Directions For Use.

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. 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.

## STORAGE AND DISPOSAL

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

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**CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!**

Manufactured For: Sharda USA LLC, 7217 Lancaster Pike, Suite A, Hockessin, Delaware 19707  
EPA Reg. No. 83529-101 EPA Est. No. ☐ 39578-TX-001 ☐ 62171-MS-001 Net Contents: 10 Lbs.

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PEEL BACK BOOK HERE