



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

February 1, 2016

Cheryl Wagner
Agent for Sharda USA LLC
c/o Wagner Regulatory Associates, Inc.
PO Box 640
Hockessin, DE 19707

Subject: Notification per PRN 98-10 – Adding New York state restriction and alternate brand name
Product Name: Sharda Glyphosate IPA + Imazethapyr
EPA Registration Number: 83529-47
Application Date: 1/7/2016
Decision Number: 513172

Dear Ms. Wagner:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records. The alternate brand name Praxis Plus has been added to the product record.

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.

If you have any questions, you may contact Sarah Meadows at 703-347-0505 or via email at meadows.sarah@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Sal Baris". The signature is fluid and cursive. To the right of the signature, the word "FOR" is written in a small, blocky font.

Reuben Baris, Product Manager 25
Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

GROUP	2 & 9	HERBICIDE
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Sharda Glyphosate IPA + Imazethapyr

ABN: Praxis Plus

**FOR USE ON ROUNDUP READY® SOYBEANS AND FALL OR SPRING WEED
BURNDOWN APPLICATION ON CLEARFIELD® CORN**

ACTIVE INGREDIENT:

Imazethapyr (±)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid 1.8%
Glyphosate: N-(phosphonomethyl) glycine, in the form of its isopropylamine salt 22.0%

OTHER INGREDIENTS: 76.2%

TOTAL: 100.0%

Contains 2.17 pounds of active ingredient per gallon (0.17 pound acid equivalent of imazethapyr and 2 pounds of glyphosate as the isopropylamine salt) formulated as a soluble liquid.

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	
If In Eyes:	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If On Skin or Clothing:	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
If Swallowed:	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor.
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For 24-hour medical emergency assistance (human or animal) call 1-800-222-1222 . For chemical emergency assistance (spill, leak, fire, or accident) call: CHEMTREC 1-800-424-9300 .	

EPA Reg. No. 83529-47

EPA Est. No. _____

Net Contents: _____

Manufactured for:
Sharda USA LLC 
7217 Lancaster Pike, Suite A
Hockessin, Delaware 19707

NOTIFICATION

83529-47

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

02/01/2016

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

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful if absorbed through skin. Avoid contact with skin.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

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

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands thoroughly after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing or 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 clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

Groundwater Advisory and Proper Handling Instructions

Imazethapyr has properties and characteristics associated with chemicals detected in groundwater. The use of imazethapyr in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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 or 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, 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 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.

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

PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow to come into contact with oxidizing agents or a hazardous reaction may occur.

AGRICULTURAL USE REQUIREMENTS

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

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours.

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 plant, soil, or water, is:

- Coveralls
- Protective eyewear
- Chemical-resistant gloves
- Shoes plus socks

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

This labeling must be in the possession of the user at the time of herbicide application.

Not for sale, sale into, distribution and/or use in Nassau and Suffolk Counties of New York State. Do not use on Long Island, New York.

DRIFT CONTROL ADDITIVES

Drift control additives may be included to either ground or aerial applications. When a drift control agent is used, read and carefully observe the precautionary statements and all other information appearing on the additive label.

To avoid injury to sensitive crops, spray equipment used for **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** applications must be drained and thoroughly cleaned with water before being used to apply other products.

When **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** herbicide is used in combination with another herbicide, refer to the respective label for rates, methods of application, proper timing, weeds controlled, restrictions and precautions. Always use in accordance with the more restrictive label restrictions and precautions. No label dosages may be exceeded. **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** cannot be mixed with any product containing a label prohibiting such mixtures.

SPRAYING INSTRUCTIONS

DO NOT apply when winds are gusty, under low-level inversion conditions or under other conditions that favor drift. Maintain appropriate buffer zones between treated fields and adjacent desirable vegetation. Exposed leaves or other green tissue may be damaged or killed by drift from **SHARDA GLYPHOSATE IPA + IMAZETHAPYR**.

GROUND APPLICATIONS

Uniformly apply with properly calibrated ground equipment in 10 or more gallons of water per acre. A spray pressure of 20 to 40 PSI is required.

To ensure thorough coverage, use a minimum of 20 gallons of water per acre when applying **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** to minimum or no-till crops. Use higher gallonage for fields with dense vegetation or heavy crop residues. Adjust the boom height to ensure proper coverage of weed foliage (according to the manufacturer's instructions). Use only flat-fan nozzle tips for post-emergence applications.

Avoid overlaps when spraying.

SHARDA GLYPHOSATE IPA + IMAZETHAPYR APPLICATIONS WITH A LOW-VOLUME SPRAYER:

SHARDA GLYPHOSATE IPA + IMAZETHAPYR may be applied to soybeans with a low-volume (Spra-Coupe type) sprayer. When applying **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** with a low-volume sprayer, spray the weeds before they reach the maximum size listed in this label. Adequate control of weeds is dependent upon good spray coverage of the weeds. The sprayer must be calibrated to deliver the specified spray volume and pressure to ensure adequate spray coverage of the weeds.

When applying **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** with a low volume sprayer, apply a minimum of 10 gallons per acre of spray solution with a nozzle pressure between 40 - 60 PSI for optimum cover age. Lower nozzle pressure will minimize the potential for drift to desirable vegetation.

AERIAL APPLICATION

Uniformly apply with properly calibrated aerial equipment in 5 or more gallons of water per acre. When applied POST-EMERGENCE, the addition of a nonionic surfactant AND fertilizer solution are required for optimum weed control. Apply a non-ionic surfactant at the rate of 0.125% v/v of spray solution AND ammonium sulfate at the rate of 2.5 lbs./acre. (See instructions under **APPLICATION INFORMATION – POST-EMERGENCE**.)

AERIAL DRIFT REDUCTION

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 is responsible for considering all these factors when making decisions.

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

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

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

INFORMATION ON DROPLET SIZE

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

CONTROLLING DROPLET SIZE

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

BOOM LENGTH

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

APPLICATION HEIGHT

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

SWATH ADJUSTMENT

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

WIND

Application is prohibited when wind speeds are less than 3 mph, and wind speeds are greater than 10 mph. **NOTE:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

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

TEMPERATURE INVERSIONS

Do not make applications occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by 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.

SENSITIVE AREAS

Only apply this pesticide 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).

Applicator is responsible for any loss or damage which results from spraying SHARDA GLYPHOSATE IPA + IMAZETHAPYR in a manner other than specified or required in this label. In addition, applicator must follow all applicable State and local regulations and ordinances in regard to spraying.

USE INSTRUCTIONS FOR NON-ROUNDUP READY® AND ROUNDUP READY® SOYBEANS

BURNDOWN WEED CONTROL (No-till soybeans and stale seedbed)

Apply **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** for burndown of weeds in no-till soy beans. It may be applied prior to planting, or pre-emergence of any soybean variety (including Roundup Ready® or non-Roundup Ready® soybeans). Add 2,4-D to the spray tank for enhanced control of perennial weeds including marestail and hemp dogbane.

ROUNDUP READY® SOYBEANS (Glyphosate-resistant)

SHARDA GLYPHOSATE IPA + IMAZETHAPYR may also be applied for post-emergence weed control in Roundup Ready® soybeans. Apply **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** for general weed burndown and season-long control of broadleaf and grassy weeds.

For season-long control of grasses, apply Prowl® 3.3 EC herbicide prior to planting soybeans. Prowl® 3.3 EC will also enhance control of waterhemp. A post-emergence application of **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** will control any escape weeds and provide season-long control of most broadleaf and grass weeds.

When mixing **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** herbicide with 2,4-D or Prowl® 3.3 EC, always use in accordance with the more restrictive label limitations and precautions.

No labeled dosage rates can be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

When organophosphate such as chlorpyrifos or carbamate insecticides are tank-mixed with **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** temporary injury may result to the treated crops.

NOTE: DO NOT apply **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** post-emergence to non-glyphosate-resistant soybeans.

**FALL APPLICATIONS IN A PLANNED SEQUENTIAL PROGRAM
ON ROUNDUP READY® SOYBEANS**

Apply **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** herbicide after fall harvest and prior to ground freeze-up in the winter. Fall applications of **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** will control existing weeds and provide residual control of winter annual weeds and early spring germinating weeds in soybeans. Soybeans must be planted in the spring following the fall application of **SHARDA GLYPHOSATE IPA + IMAZETHAPYR**. If weeds emerge in-season, other registered soybean products may be applied post-emergence for weed control.

NOTE: For fall applications of **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** adjust the rotational crop intervals by basing the interval on the date of soybean planting rather than the date of herbicide application.

**FALL OR SPRING BURNDOWN APPLICATION IN A PLANNED SEQUENTIAL
PROGRAM WITH LIGHTNING® HERBICIDE APPLIED TO CLEARFIELD® CORN
(Only in states of Kentucky, Tennessee, and south of Interstate 70 in Indiana)**

SHARDA GLYPHOSATE IPA + IMAZETHAPYR may be applied as a fall or spring burndown application prior to planting **CLEARFIELD®** corn and the use of **Lightning®** Herbicide in-crop to **CLEARFIELD®** corn. **DO NOT** apply **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** to emerged **CLEARFIELD®** corn, or crop injury will occur.

NOTE: DO NOT apply **COUNTER®** CR insecticide or **COUNTER®** 15G insecticide to acres treated with **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** preplant **CLEARFIELD®** corn or crop injury may occur.

DO NOT plant wheat in the same year as application of **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** followed by **Lightning®**, unless at least 10 inches of rainfall or overhead irrigation has occurred between application of **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** and planting of wheat.

—ATTENTION—

AVOID CONTACT OF SHARDA GLYPHOSATE IPA + IMAZETHAPYR WITH FOLIAGE OF DESIRABLE PLANTS, BECAUSE SEVERE INJURY OR PLANT DEATH MAY RESULT.

AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS.

DO NOT allow the herbicide solution to drift onto desirable vegetation. Very small amounts of drift may cause injury or death to desirable crops or plants.

The likelihood of injury occurring from the use of this product increases when winds are gusty. The risk of injury from this product increases when wind direction is constantly changing or during inversion conditions or other weather conditions that favor drift. Avoid applications using high spray pressure and high speed. These contribute to conditions that favor small spray droplets and drift.

**APPLICATION RATES
BURNDOWN WEED CONTROL
(No-till soy beans and stale seedbed)**

Apply **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** at the rate of 3 pints per acre (0.75 lb. glyphosate + 0.06 lb. ae imazethapyr). One gallon will treat 2.7 acres of soybeans at this rate.

**ROUNDUP READY® SOYBEANS
(Glyphosate-resistant – in-crop post-emergence weed control)**

SHARDA GLYPHOSATE IPA + IMAZETHAPYR provides burndown and residual control of many broadleaf and grassy weeds in soybeans. It can be applied to no-till soybeans as a burndown prior to planting. It may also be applied post-emergence to Roundup Ready® soybeans for season-long weed control. **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** is effective for control of difficult weeds common to no-till production, including marestalk.

Occasionally, internode shortening and/or temporary yellowing of crop plants may occur following a **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** application. These effects occur infrequently and are usually temporary.

To minimize weed competition to the soybeans, apply to weeds 1 - 8 inches in size. Apply **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** at the rate of 3 pints per acre. One gallon will treat 2.7 acres of soybeans at this rate.

**FALL APPLICATIONS IN A PLANNED SEQUENTIAL PROGRAM
ON ROUNDUP READY® SOYBEANS**

Apply **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** at a rate of 3 pints per acre (0.75 lb. glyphosate + 0.06 lb. ae imazethapyr). One gallon will treat 2.7 acres at this rate.

**FALL OR SPRING BURNDOWN APPLICATION IN A PLANNED SEQUENTIAL PROGRAM
WITH LIGHTNING® HERBICIDE APPLIED TO CLEARFIELD® CORN
(Only in states of Kentucky, Tennessee, and south of Interstate 70 in Indiana)**

Apply **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** at a rate of 3 pints per acre (0.75 lb. glyphosate + 0.06 lb. ae imazethapyr). One gallon will treat 2.7 acres at this rate.

Only 1 application of **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** may be made during the season. **DO NOT** to exceed 3.0 pints per acre (0.75 lb. glyphosate + 0.06 lb. ae imazethapyr).

**ROUNDUP READY® SOYBEANS
(Only in North Dakota and north of Highway #210 in Minnesota)**

Apply **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** at 2.25 pts./A (0.56 lb. glyphosate + 0.48 lb. ae imazethapyr). One gallon of **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** will treat 2.0 acres at this rate.

Only 1 application of **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** may be made during the season. **DO NOT** exceed 2.25 pts./A (0.56 lb. glyphosate + 0.48 lb. ae imazethapyr) of **SHARDA GLYPHOSATE IPA + IMAZETHAPYR**.

MIXING INSTRUCTIONS

BURNDOWN OR POST-EMERGENCE APPLICATIONS OF **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** REQUIRE THE ADDITION OF A SURFACTANT AND FERTILIZER.

1. **SURFACTANTS:** Use a non-ionic surfactant containing at least 80% active ingredient. Apply the surfactant at the rate of 1 pint per 100 gallons of spray mixture (0.125% v/v of the spray mixture). Use only surfactants approved for application to growing crops.

AND

2. **FERTILIZER:** Include a fertilizer in the spray solution. Add spray grade ammonium sulfate at the rate of 8.5 - 17 lbs. per 100 gallons of spray solution. Use the higher rate when weeds are under moisture or temperature stress.

When mixing **SHARDA GLYPHOSATE IPA + IMAZETHAPYR**, while agitating, add components in the following order:

1. Fill spray tank 1/2 full with clean water.
2. Add fertilizer.
3. Add **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** and thoroughly mix.
4. Add surfactant to the spray tank.
5. While agitating, fill the remainder of the tank with water.

APPLICATION INFORMATION

POST-EMERGENCE

SHARDA GLYPHOSATE IPA + IMAZETHAPYR is effective in controlling weeds in conservation tillage as well as in conventional production systems. Apply **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** as a post-emergence treatment. Application timing should be based on weed size and not crop growth stage. Apply **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** to Roundup Ready® Soybeans and weeds that are actively growing.

A non-ionic surfactant and a nitrogen-based fertilizer must be added to the spray solution for optimum weed control activity. See the **ADJUVANTS** section under **MIXING INSTRUCTIONS** for specific instructions.

When **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** is applied post-emergence, absorption will occur through both the roots and foliage. Susceptible weeds stop growing and either die or are not competitive with the crop. **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** not only controls many existing broadleaf and grass weeds when applied post-emergence, it also provides control of susceptible weeds that may emerge after application.

For maximum weed control, cultivate 7 - 10 days following a post-emergence **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** application. This timely cultivation will enhance residual weed control, especially under dry conditions.

SHARDA GLYPHOSATE IPA + IMAZETHAPYR must be applied a minimum of one hour before rainfall or overhead irrigation.

Unusually cool temperatures (50°F or less) reduce photo synthesis and transpiration and thus reduce uptake, translocation, and efficacy of **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** herbicide in weeds.

If air temperature has been below 50°F for 10 or more hours, delaying a **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** application for 48 hours after the temperature increases above 50°F will improve weed control and reduce crop response.

NO-TILL/MINIMUM TILLAGE AND DOUBLE CROP SOYBEANS

SHARDA GLYPHOSATE IPA + IMAZETHAPYR herbicide controls existing weeds and provides residual control of most weeds when applied early post-emergence to soybeans in no-till or minimum tillage and double crop soybean production systems. The application may be applied either before or after emergence of the crop. (Refer to the **WEEDS CONTROLLED** chart for weeds controlled and recommended weed size.)

The addition of Prowl® 3.3 EC herbicide in a tank-mixture with **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** for burndown weed control will provide season-long control of grasses and enhance control of waterhemp.

For improved burndown weed control, **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** may be tank-mixed with 2,4-D. Refer to the 2,4-D label for application rates and intervals between application and planting.

SOYBEAN USE PRECAUTIONS

- If soybeans are furrow irrigated, till the soil prior to planting winter wheat or barley. The beds should be broken up and the soil mixed with tillage equipment set to cut 4 - 6 inches deep.

SOYBEAN USE RESTRICTIONS

- Do not apply **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** within 85 days of harvest.
- Do not apply **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** after soybean bloom.
- Do not make more than one application of **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** per soybean growing season.
- Do not graze or feed treated soybean forage, hay or straw to livestock.

BROADLEAF WEEDS CONTROLLED

Weeds Controlled	Maximum Size (inches)	Weeds Controlled	Maximum Size (inches)
Alligator weed	5	Marshelder	5
Amaranth, Palmer	12	Morningglory, annual	
Anoda, spurred	3	<i>Ipomoea</i> spp.	4
Artichoke, Jerusalem	8	Mustard spp.	18
Buffalobur	5	Nightshade	
Bristly starbur	3	Black	12
Buckwheat, wild	4	Eastern black	12
Burcucumber	12	Hairy	12
Carpetweed	18	Pigweed	
Chickweed	18	Redroot	18
Cocklebur, common	18	Smooth	18
Copperleaf		Spiny	18
Hophornbeam	2	Ragweed	
Virginia	2	Common	9
Corn (volunteer – non-Roundup Ready®)	20	Giant	9
Eclipta	8	Smartweed	
Fleabane		Ladysthumb	6
Annual	8	Pennsylvania	6
Hairy	8	Spurge	
Rough	6	Prostrate	12

Jimsonweed	6
Hemp sesbania	2
Horseweed/marestail	12
Knotweed	8
Kochia	12
Lambsquarters, common	8

Spotted	12
Sicklepod	3
Sunflower	18
Teaweed/prickly sida	2
Velvetleaf	5
Waterhemp	12

GRASS WEEDS CONTROLLED

Weeds Controlled	Maximum Size (inches)
Barley (volunteer)	12
Barnyardgrass	6
Crabgrass	
Large	12
Smooth	12
Cupgrass, woolly	12
Foxtail	
Giant	18
Green	18
Yellow	18
Goosegrass	5
Johnsongrass	
Seedling	12
Rhizome	12

Weeds Controlled	Maximum Size (inches)
Oats (volunteer)	12
Panicum	
Fall	12
Texas	12
Browntop	12
Red rice	4
Rye	18
Shattercane	18
Sprangletop	12
Signalgrass, broadleaf	8
Sorghum, alnum	4
Wheat (volunteer)	18
Wild oats	12

SEDGES CONTROLLED

Weeds Controlled	Maximum Size (inches)
Nutsedge	
Purple	3 ¹
Yellow	3 ¹

¹Reduced competition

ROTATIONAL CROP INSTRUCTIONS

The following rotational crops may be planted after applying SHARDA GLYPHOSATE IPA + IMAZETHAPYR herbicide at the specified rate:

Time after SHARDA GLYPHOSATE IPA + IMAZETHAPYR Application	CROP	
Anytime	CLEARFIELD [®] corn seed hybrids (resistant/tolerant to Pursuit herbicide) Lima beans Peanuts	Peas Southern peas Soybeans
Two months	Snap peas	
Four Months	Alfalfa Clover CLEARFIELD [®] Wheat Edible beans and peas (other than lima beans)	Rye (Except in North Dakota and Minnesota north of highway 210) Wheat
Eight and one-half months	Field corn	Field corn grown for seed
Nine and one-half months	Barley (except in North Dakota)	Tobacco
Twelve months	CLEARFIELD [®] canola varieties (tolerant to Pursuit herbicide)	
Eighteen months	Cotton Lettuce Oats Popcorn Rye (North Dakota and Minnesota north of highway 210)	Safflower Sorghum Sunflower Sweet corn
Twenty six months	Flax	Potatoes
Forty months	All crops not listed elsewhere in these ROTATIONAL CROP INSTRUCTIONS ¹	

⁴Following forty months after a **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** application, and before planting any crop not listed elsewhere in the **ROTATIONAL CROP INSTRUCTIONS**, a successful field bioassay must be completed. The field bioassay consists of a test strip of the intended rotational crop planted across the previously treated field and grown to maturity. The test strip should include low areas and knolls, and include variations in soil such as type and pH. If no crop injury is evident in the test strip, the intended rotational crop may be planted the following year. Sugarbeet production can be reduced when grown in soil conditions with a pH less than 6.5. If the field is limed to adjust pH prior to planting rotational crops not listed in the **ROTATIONAL CROP INSTRUCTIONS**, apply the lime at least 12 months prior to planting the rotational crop. Use of **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** 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 and, therefore, rotational crop injury is always possible.

EXCEPTIONS TO ROTATIONAL CROP INSTRUCTIONS

BARLEY:

(North Dakota only)

Barley may be planted 18 months following a **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** application in North Dakota.

BARLEY:

(States of Indiana, Ohio, Kentucky, Pennsylvania, New Jersey, Delaware, Virginia, and Maryland only)

Barley may be planted 4 months following a **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** application in these states.

CORN INBRED LINES:

Corn inbred seed lines may be planted the year following an application of **SHARDA GLYPHOSATE IPA + IMAZETHAPYR**. Several seed companies have tested a wide range of inbreds for sensitivity to **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** soil residues and have reported good crop safety. However, due to the proprietary nature of seed production, Sharda USA LLC has not been given access to the inbred data. Growers are directed to contact the seed company for information and recommendations regarding the planting of corn grown for seed in fields treated with **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** herbicide the previous year. Since growing conditions, environmental conditions and grower practices are beyond the control of Sharda USA LLC, to the extent permitted by applicable law, all risks and consequences associated with planting seed corn inbreds into fields treated previously with **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** shall be assumed by the user.

SWEET CORN AND POPCORN VARIETIES:

(States of Iowa, Illinois, Indiana, Ohio, Wisconsin, Minnesota, and Tennessee only)

Sweet corn and popcorn varieties may be planted the year following an application of **SHARDA GLYPHOSATE IPA + IMAZETHAPYR**. Some sweet corn and popcorn varieties may be injured when planted at less than 18 months following an application of **SHARDA GLYPHOSATE IPA + IMAZETHAPYR**. Before planting sweet corn for processing, contact the processor company for information and recommendations regarding the tolerance of sweet corn varieties planned for fields treated with **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** the previous year. **DO NOT** plant fresh market sweet corn varieties prior to 18 months after **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** use. Before planting popcorn, contact the popcorn company for information and recommendations regarding the tolerance of popcorn varieties planned for fields treated with **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** the previous year. Since growing conditions, environmental conditions and grower practices are beyond the control of SHARDA USA LLC TO THE EXTENT ALLOWABLE BY APPLICABLE LAW, ALL RISKS AND CONSEQUENCES ASSOCIATED WITH PLANTING SWEET CORN OR POPCORN VARIETIES INTO FIELDS TREATED PREVIOUSLY WITH **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** SHALL BE ASSUMED BY THE USER.

Stunting and maturity delay or other adverse effects may result when sweet corn or popcorn are planted following **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** use.

CERTAIN VEGETABLE CROPS:

(States of New Jersey, Virginia, North Carolina, South Carolina, Georgia, Alabama, Florida, Delaware, Maryland, Pennsylvania, Kentucky, and Indiana only)

The following crops may be planted 18 months following the last application of **SHARDA GLYPHOSATE IPA + IMAZETHAPYR**: Bahiagrass, cabbage, cantaloupe, cucumber, Irish potato, onion, sweet potato transplants, sweet pepper transplants, tomato transplants, and watermelon.

WHEAT:

Wheat may be planted 3 months following a **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** application in areas east of interstate highway I-35.

NON-CLEARFIELD® WHEAT

Rotational Interval based on pH,	Moldboard Plowing
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Moisture and Tillage (North Dakota)		NO	YES
pH and Rainfall Requirements	>10 inches R+I AND pH >6.2	4 months	4 months
	<10 inches R+I OR pH <6.2	15 months	4 months

R+I = Rainfall and overhead irrigation from the time of **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** application up until time of wheat planting. Does not include furrow or flood irrigation.

If the rainfall or pH requirements are not fully met, and non-CLEARFIELD® wheat is planted prior to the specified rotation interval, injury may be reduced by tillage, such as deep disking (greater than 6 inches deep) after crop harvest but prior to November 1st.

The possibility of injury to non-CLEARFIELD® wheat planted the next season increases if less than normal precipitation occurs within the first two months after **SHARDA GLYPHOSATE IPA + IMAZETHAPYR** application.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: SHARDA GLYPHOSATE IPA + IMAZETHAPYR herbicide is stable under conditions of freezing and thawing. Shake well before using. Keep containers closed to avoid spills and contamination.

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

CONTAINER HANDLING: Non-refillable containers (1 and 2.5 gallon): Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. 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. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Non-refillable containers (>5 gallon): Do not reuse or refill this container. Triple rinse or pressure 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 1/4 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. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Refillable containers: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. When this container is empty, replace the cap and seal all openings that have been made during usage and return the container to the point of purchase, or to an alternate location designated by the manufacturer at the time of purchase of this product. If not returned, clean the empty container and offer for recycling, if available. 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 the 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 process two more times. If the container cannot be refilled, offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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.