

GROUP 4 HERBICIDE

# Arose

A dry flowable herbicide for use in rice.

ACTIVE INGREDIENT:	% BY WEIGHT
Quinclorac: 3,7-dichloro-8-quinolinecarboxylic acid .....	75.0%
OTHER INGREDIENTS: .....	25.0%
TOTAL: .....	100.0%

**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.)

**See label booklet for complete First Aid, 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.: 83529-75  
EPA Est. No.: 39578-TX-001

**Net Contents: 5 lbs.**

<b>FIRST AID</b>	
<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 first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• 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 ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF INHALED</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOTLINE NUMBER</b>	
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> .	

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

Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Do not get in eyes. Avoid contact with skin or clothing.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators and other handlers must wear:**

- Protective eyewear
- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, butyl rubber ≥14 mils, neoprene rubber ≥14 mils, or nitrile rubber ≥14 mils, polyethylene, PVC ≥14 mils, or Viton ≥14 mils
- Shoes plus socks

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

**ENGINEERING CONTROLS**

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

**USER SAFETY RECOMMENDATIONS**

**Users should:**

- Wash hands thoroughly with soap and water 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 this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

Keep out of lakes, ponds and streams. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark, except as specified on this label for use in rice. Do not contaminate water when disposing of equipment washwater or rinsate.

**GROUND WATER ADVISORY**

Quinlorac has properties and characteristics associated with chemicals detected in groundwater. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other 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.

### 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), notification to workers, 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:

- Protective eyewear
- Coveralls
- Waterproof gloves
- Shoes plus socks

### PRODUCT INFORMATION

**Arose** is an herbicide for weed control in dry-seeded, water-seeded and CLEARFIELD® rice planting and production. **Arose** is a dry flowable formulation that is designed to dissolve in water and can be applied with common agricultural spray equipment.

#### Use Restrictions:

- Do not apply more than 0.67 lb. of **Arose** (0.5 lb. quinclorac) per acre per crop season or per year.
- Do not apply more than 0.67 lb. of **Arose** (0.5 lb. quinclorac) per acre per application.
- **Pre-Harvest Interval (PHI):** Do not apply **Arose** within 40 days of harvest.
- Do not apply **Arose** to rice that is heading.
- Do not use **Arose** on precision-cut fields until the second rice crop as injury can result.
- Do not use **Arose** on sand and loamy sand soils.
- Do not apply to rice fields with a history of poor water-holding capacity (porous subsoil) as erratic weed control may occur.
- Do not make application of **Arose** on any rice soil that does not have an impermeable hard pan to provide good water-holding capacity.
- Do not allow **Arose** to drift outside the intended target areas.
- Apply as a medium or coarser spray (ASABE Standard S-572.1).
- **Ground Applications:** Do not make application when wind speed is greater than 10 mph.
- **Ground applications:** Do not release spray at a height greater than 30 inches above the ground.
- **Aerial Applications:** Do not make application when wind speed is greater than 8 mph.
- **Aerial applications:** Do not release spray at a height greater than 10 feet above the crop canopy unless a higher application height is required for reasons of pilot safety.
- Do not make application of **Arose** when air temperatures exceed 90°F.
- Do not use rice straw or processing by-products (such as chaff, hulls, etc.) as soil amendments or mulch for high-value crops such as bedding stock, vegetable transplants, or ornamental and fruit trees.
- Do not use treated rice fields for the aquaculture of edible fish and crustaceans (crayfish).
- Do not use water from rice cultivation after an **Arose** application to irrigate any crop other than rice.
- **Arose** cannot be used to formulate or reformulate any other pesticide product.
- Do not make application of this product through any type of irrigation system.

#### Crop Rotation Restrictions:

- Do not plant any crop other than rice for a period of 309 days following application.
- Do not plant eggplant and tobacco within 12 months (one year) on fields treated with **Arose**.
- Do not plant tomatoes and carrots within 24 months (two years) on fields treated with **Arose**.

Only rice may be immediately replanted, in the event of crop failure.

#### **Geographic Restrictions:**

- **Arkansas:** Contact the Arkansas Plant Board or a representative for specific instructions about making application of **Arose** in Arkansas because there are additional restrictions in the State of Arkansas. In Arkansas, application of **Arose** (quinclorac) must not be made in an area from one-mile west of Highway No. 1 to one-mile east of Highway No. 163 from the Craighead/Poinsett county line to the Cross/Poinsett county line. Furthermore, no aerial application is allowed in the area of Poinsett County one-mile west of Hwy. No. 1 to two-miles west of Hwy. No. 1 and one-mile east of Hwy. No. 163 to Ditch No. 10, from the Craighead/Poinsett county line to the Cross/Poinsett county line.

**Crop Tolerance:** When used per label use directions and under typical growing conditions, rice is tolerant to **Arose**. Adverse weather conditions or high use rate from spray overlap or other sources may contribute to leaf twisting, buggy whipping, or other abnormal growth characteristics. Seed on the soil surface in direct contact with **Arose** is the most sensitive in broadcast or water-seeded rice applications. These symptoms are generally short-lived and rice usually recovers without a significant stand loss or other injury.

#### **Water Management**

##### **Irrigation and Flood Water**

Product performance and weed control with **Arose** is highly dependent on proper use of irrigation, including effective flush irrigation to maintain moist soil conditions and timely establishment of permanent flood water. Soil treatments and residual activity from foliar applications require moist soil conditions for weeds to uptake the herbicide and be controlled. Therefore, keep the soil moist to maintain weed control. If the soil is permitted to dry and weeds emerge, flush irrigate the field to reactivate the residual activity of the herbicide while weeds are small (no greater than 1 inch in height). If needed, make additional **Arose** treatment, but limit total usage to 0.67 pound per acre per year. In water-seeded rice plantings and in pinpoint flood culture, drain all water from the rice field and ensure seedling rice has at least 2 leaves before applying **Arose**. Rice seedlings without 2 leaves may be injured. Flood water levees should be formed before making application of **Arose** for more consistent weed control. Residual weed control on the levee is dependent on moist soil conditions on the levee. If soil on the levee dries, erratic weed control may result. If a heavy rain occurs after making application of **Arose**, drain the excess water from the rice field to avoid possible rice injury.

#### **RESISTANCE**

This product contains the active ingredient quinclorac which is classified as a group 4 herbicide. When herbicides that affect the same biological site of action are used repeatedly over several years to control the same weed species in the same field, naturally-occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. Adequate control of these resistant weed biotypes cannot be expected. If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product affecting a different site of action.

To better manage herbicide resistance through delaying the proliferation and possible dominance of herbicide resistant weed biotypes, it may be necessary to change cultural practices within and between crop seasons such as using a combination of tillage, retreatment, tank-mix partners and/or sequential herbicide applications that have a different site of action. Weed escapes that are allowed to go to seed will promote the spread of resistant biotypes.

It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes. Consult your agricultural dealer, consultant, applicator, and/or appropriate State agricultural extension service representative for specific alternative cultural practices or herbicide recommendations available in your area.

#### **INTEGRATED PEST MANAGEMENT**

**Arose** may be used as part of an Integrated Pest Management (IPM) program that can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your State cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

#### **SPRAY DRIFT MANAGEMENT**

Avoiding spray drift at the application site is the responsibility of the applicator and grower. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and 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 aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations:

1. Effectiveness is reduced if the distance of the outermost nozzles on the boom exceeds  $\frac{3}{4}$  the length of the wingspan or rotor.
2. Nozzles should always point backward parallel with the air stream and should not be pointed downward more than 45 degrees.
3. Where states have more stringent regulations, they must be observed.
4. The applicator must be familiar with and take into account the information covered in the **AERIAL DRIFT REDUCTION ADVISORY INFORMATION**.

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## AERIAL DRIFT REDUCTION ADVISORY INFORMATION

### 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. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. 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  $\frac{3}{4}$  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 largest plants, unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

### 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

Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind directions and high inversion potential. **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 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

Because drift potential is high, do not apply during a temperature inversion. 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

Apply this product only when the potential for drift to adjacent sensitive areas (e.g., non-target crops, bodies of water, residential areas, known habitat for threatened or endangered species) is minimal (e.g., when wind is blowing away from the sensitive areas). Flagmen and loaders should avoid inhalation of spray mist and prolonged contact with skin.

## APPLICATION INSTRUCTIONS

**Arose** can be applied to rice fields for the control of barnyardgrass, propanil-resistant barnyardgrass, other annual grasses, and certain broadleaf weeds.

**Soil Application:** Application of **Arose** may be made to the soil surface before, during, or after planting of dry-seeded rice. When application is made to the soil surface and activated by rainfall or irrigation, roots of susceptible grasses and broadleaf weeds uptake the herbicide resulting in commercially acceptable control before weed competition reduces rice productivity. Soil texture and clay content determine the proper use rate for best weed control with heavier soil textures and higher clay content requiring use rates at the higher end of the specified rate range. See the **Timing and Application Rate** table.

**Foliar Application:** Application of **Arose** may be made to the foliage of susceptible grasses and broadleaf weeds in dry-seeded and water-seeded rice. When application is made to weed foliage, leaves, and stems partially uptake the herbicide. It is essential that rice be flushed after a foliar application to maximize root absorption resulting in commercially acceptable weed control. Additionally, the herbicide reaching the soil surface moves into the soil with rainfall or irrigation providing residual weed control. In general, larger weeds require higher use rates for more complete control and smaller weeds are more effectively controlled with lower use rates. The use rates that are specified in the **Timing and Application Rate** table are for foliar treatments that will provide commercially acceptable control of susceptible weeds based on weed size or growth stage.

**Timing and Application Rate**

Weed Species	Foliar Applications (Rate/Acre)		Soil Applications (Rate/Acre)		
	Small weeds controlled and short-term soil residual	Larger weeds controlled and long-term soil residual	Light-textured sandy loams	Medium-textured silts, loams, silt loams, sandy clay loams	Heavy-textured such as silty clays, silty clay loams, clay loams, clays, gumbo, and buckshot
<b>Annual Grasses</b>					
Barnyardgrass Crabgrass, Large Jungle rice Signalgrass, Broadleaf	0.40 - 0.50 lb. up to 2 inches	0.40 - 0.67 lb. up to 3 inches	0.33 - 0.44 lb.	0.50 lb.	0.67 lb.
<b>Broadleaf Weeds</b>					
Eclipta Jointvetches spp., Indian Northern Morningglory spp., Cypressvine Entireleaf Ivyleaf Palmleaf Pitted Purple Moonflower Tall (Common) Sesbania, Hemp	0.40 - 0.50 lb. up to 2 leaves	0.50 - 0.67 lb. up to 3 leaves	0.33 - 0.44 lb.	0.50 lb.	0.67 lb.
Alligatorweed (Partial Control)*	0.67 lb.	N/A	N/A	N/A	N/A

\*Rice must be in at least the 2-leaf stage. For best control, establish permanent flood within 2 days after **Arose** application.

**Application Equipment:** Whenever possible, apply spray mixtures using ground spray equipment. Ensure ground and aircraft spray equipment is properly calibrated and spray coverage is uniform. Always use spray nozzles and other equipment designed to reduce accidental spray drift. Always use drift control products and limit spray applications to periods when wind and other weather conditions do not favor spray drift beyond the border of the rice field.

**Ground Applications:** Apply spray mixtures that contain **Arose** with ground spray equipment whenever possible. Refer to the **Use Restrictions** section under **Product Information**.

**Pre-Plant/Pre-Emergence and Delayed Pre-Emergence**

- **Water Volume:** Make application in 10 to 40 gallons of water per broadcast acre.
- **Spray Pressure:** Use 25 to 40 PSI.

**Post-Emergence**

- **Water Volume:** Make application in 10 to 20 gallons of water per broadcast acre.
- **Spray Pressure:** Use 25 to 40 PSI.

**Aerial Applications:** If treatment with ground spray equipment is not possible, application by aircraft is allowed, provided the aerial applicator understands the risks and assumes the liability associated with accidental spray drift from aerial application. Refer to the **Use Restrictions** section under **Product Information**.

- **Water Volume:** Make application in a minimum of 5 gallons of water per acre.
- **Spray Pressure:** Use a maximum 40 PSI.

## MIXING INSTRUCTIONS

Mix **Arose alone** with water or liquid fertilizer and apply as a spray:

- Fill the spray tank ½ - ¾ full of water.
- Add the specified amount of **Arose**.
- Add the remaining water.
- Maintain sufficient agitation during mixing and application to maintain a uniform coverage and treatment.

### Additives

Adding 2 pints of crop oil concentrate (COC) per acre will improve leaf and stem uptake of the herbicide and enhance weed control (for post-emergence applications only).

### Drift Control Products

Drift control products should always be added to the spray solution to affect spray droplet size and other characteristics, reducing the potential of off-target, accidental spray drift. When an adjuvant (or a specific adjuvant product, such as a drift control agent) is to be used with this product, the use of a Chemical Producers and Distributors Association (CPDA) certified adjuvant is recommended.

## TANK MIXING

### Tank Mix Applications

While **Arose** is effective in controlling a wide variety of annual grasses and broadleaf weeds, more effective weed control may be achieved or additional weeds may be controlled by tank mixing **Arose** with other herbicides labeled for weed control in rice. The table below lists some weeds where tank mixing is appropriate. 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.

All mixing equipment and all spray equipment should be thoroughly cleaned prior to and following mixing and making application of **Arose**.

### Tank Mixtures:

- Fill the spray tank ¾ full with water, and begin agitation. Add products to the tank in the following order.
- Products in PVA bags. Add the bag to the tank and wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
- Water-dispersible products (such as wettable powders, suspension concentrates, or suspo-emulsions).
- Water-soluble products.
- Emulsifiable concentrates. If an inductor is used, rinse it thoroughly after the component has been added.
- Water-soluble additives. If an inductor is used, rinse it thoroughly after the component has been added.
- Fill the tank with the remaining water.
- Maintain constant agitation during application.

Tank Mix Applications		
Tank Mix Partners	Rates	Weeds
<b>Arose</b> + Basagran®	0.33 - 0.67 lb. + Refer to product label for use rate(s)	Cocklebur
<b>Arose</b> + Basagran	0.33 - 0.67 lb. + Refer to product label for use rate(s)	Dayflower
<b>Arose</b> + Blazer®	0.33 - 0.67 lb. + Refer to product label for use rate(s) <sup>1</sup>	Hemp Sesbania
<b>Arose</b> + Command® 3ME	0.33 - 0.67 lb. + Refer to product label for use rate(s)	

<sup>1</sup>Make application as a tank mix after rice has reached the 3-leaf stage.

*(continued)*

Tank Mix Applications (continued)		
Tank Mix Partners	Rates	Weeds
<b>Arose</b> + Bolero® 8 EC	0.33 - 0.67 lb. + Refer to product label for use rate(s) <sup>2</sup>	Sprangletop
<b>Arose</b> + Prowl® H2O	0.33 - 0.67 lb. + Refer to product label for use rate(s) <sup>3</sup>	
<b>Arose</b> + Command 3ME	0.33 - 0.67 lb. + Refer to product label for use rate(s)	
<b>Arose</b> + Basagran	0.33 - 0.67 lb. + Refer to product label for use rate(s)	Yellow Nutsedge
<b>Arose</b> + Command 3ME	0.33 - 0.67 lb. + Refer to product label for use rate(s)	Morningglory
<b>Arose</b> + Storm® herbicide	0.33 - 0.67 lb. + Refer to product label for use rate(s)	Heavy infestations of broadleaf weeds.
<b>Arose</b> + propanil	0.33 - 0.67 lb. + Refer to product label for use rate(s)	For weeds and grasses not controlled by <b>Arose</b> .
<sup>2</sup> Make application as a tank mix to the soil surface 1 to 5 days prior to rice emergence. <sup>3</sup> Make application of this tank mix to soil surface after planting, before rice emergence and before sprangletop emergence.		

#### Weeds Controlled

Common Name	Scientific Name
Alligatorweed	<i>Alternanthera philoxeroides</i>
Barnyardgrass	<i>Echinochloa crus-galli</i>
Cocklebur	<i>Xanthium strumarium</i>
Crabgrass, Large	<i>Digitaria sanguinalis</i>
Dayflower spp.	<i>Commelina</i> spp.
Eclipta	<i>Eclipta alba</i>
Jointvetch spp.	
Indian	<i>Aeschynomene indica</i>
Northern	<i>Aeschynomene virginica</i>
Junglerice	<i>Echinochloa colonum</i>
Morningglory spp.	
Cypressvine	<i>Ipomoea quamoclit</i>
Entireleaf	<i>Ipomoea hederacea integruscula</i>
Ivyleaf	<i>Ipomoea hederacea</i>
Palmleaf	<i>Ipomoea wrightii</i>
Pitted	<i>Ipomoea lacunosa</i>
Purple Moonflower	<i>Ipomoea muricata</i>
Tall (Common)	<i>Ipomoea purpurea</i>
Nutsedge, Yellow	<i>Cyperus esculentus</i>
Sesbania, Hemp	<i>Sesbania exaltata</i>
Signalgrass, Broadleaf	<i>Brachiaria platyphylla</i>
Sprangletop	<i>Leptochloa</i> spp.

## STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in a 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 Bags (All Weights):** Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling, if available, or dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Non-Rigid Cardboard Containers:** Non-refillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

**Non-Refillable Containers (50 lbs. or less):** Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container 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 offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Non-Refillable Containers (greater than 50 lbs.):** Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container 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 offer for recycling in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Refillable Container:** Refillable container. Refill this container with quinclorac only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

## 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.

All trademarks are the property of their respective owners.

# Arose

A dry flowable herbicide for use in rice.

ACTIVE INGREDIENT:	% By Weight
Quinlorac: 3,7-dichloro-8-quinolinecarboxylic acid .....	75.0%
OTHER INGREDIENTS: .....	25.0%
TOTAL: .....	100.0%

**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.)

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

### FIRST AID

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. 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.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**WARNING.** Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Do not get in eyes. Avoid contact with skin or clothing.

GROUP

4

HERBICIDE

OPEN HERE

### STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in a 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 Bags (All Weights):** Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling, if available, or dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Non-Rigid Cardboard Containers:** Non-refillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

**Non-Refillable Containers (50 lbs. or less):** Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container 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 offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Non-Refillable Containers (greater than 50 lbs.):** Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container 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 offer for recycling in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Refillable Container:** Refillable container. Refill this container with quinlorac only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Manufactured For: Sharda USA LLC, 7217 Lancaster Pike, Suite A, Hockessin, Delaware 19707  
EPA Reg. No.: 83529-75      EPA Est. No.: 39578-TX-001      Net Contents: 5 lbs.