



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

July 2, 2025

Eliot Harrison  
Agent for Drexel Chemical Company  
Drexel Chemical Company  
1700 Channel Avenue, P.O. Box 13327  
Memphis, TN 38106

Subject: PRIA Label Amendment – Deleting poison and the skull and crossbones logo and revising the signal word and precautionary statements.

Product Name: Drexel Diquat 2SL  
EPA Registration Number: 19713-729  
Application Date: 12/4/2024  
Case Number: 637457

Dear Mr. Harrison:

The amended label and CSF(s) referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, are acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Please note that the record for this product currently contains the following CSF(s):

- Basic CSF dated: 9/17/2021

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.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Sayed Islam by phone at 202-566-2796, or via email at [islam.sayed@epa.gov](mailto:islam.sayed@epa.gov).

Sincerely,

A handwritten signature in dark ink, appearing to read "Sayed Islam". Below the signature is a small, faint line of text that is difficult to read but appears to be a disclaimer or a note about the signature's use.

Sayed Islam, Ph.D.  
Acting Product Manager Team 24  
Fungicide and Herbicide Branch,  
Registration Division (7505P)  
U.S. Environmental Protection Agency

Drexel

# Diquat 2SL

Desiccant

**INTENDED FOR COMMERCIAL USE.**

**TO PREVENT ACCIDENTAL POISONING, NEVER STORE THIS PRODUCT IN FOOD, DRINK, OR UNLABELED CONTAINERS.**

**ACTIVE INGREDIENT:**

Diquat dibromide [6,7-dihydrodipyrido (1,2-a:2',1'-c) pyrazinediium dibromide] .....37.3%

**OTHER INGREDIENTS:** .....62.7%

**TOTAL:** .....100.0%

This product is formulated as a soluble liquid containing 2 pounds of Diquat cation per gallon or 3.748 pounds of Diquat Dibromide per gallon.

**KEEP OUT OF REACH OF CHILDREN**

## WARNING AVISO

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

(See FIRST AID Below)

(See Side (Back) Panel for Additional Precautionary Statements)

(See Page \_\_\_\_\_ for Additional Precautionary Statements)

(See (Attached) (Booklet) (Container Labeling) for Complete Directions for Use)

(SHAKE WELL BEFORE USING)

(RECIRCULATE CONTENTS BEFORE USE)

EPA Reg. No. 19713-729

EPA Est. No. 19713-XX-XXX

Net Contents: \_\_\_\_\_ Gal. ( \_\_\_\_\_ L)

### 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 do so by a poison control center or doctor.
- **DO NOT** give anything by mouth to an unconscious person.

**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.

**IF ON SKIN OR CLOTHING:**

- 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 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 treatment advice.

Have the product container or label with you when calling a poison control center at (800) 222-1222 or a doctor or going for treatment. You may also call CHEMTREC at 800-424-9300 for emergency medical treatment information. For information on this pesticide product (including general health concerns or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378, Monday through Friday, 8:00 AM to 12:00 PM PST or at <http://npic.orst.edu>.

**NOTE TO PHYSICIAN:**

If in eyes, treat symptomatically. Symptoms may develop gradually. Severe damage may be caused by apparently trivial contact and healing may be delayed. Medical supervision should be continued until healing is complete. To be effective, treatment for Diquat poisoning must begin **IMMEDIATELY**. Treatment consists of binding Diquat in the gut with suspensions of activated charcoal or bentonite clay, administration of cathartics to enhance elimination, and removal of Diquat from the blood by charcoal hemoperfusion or continuous hemodialysis.

Manufactured By:

**Drexel Chemical Company**

P.O. Box 13327, Memphis, TN 38113-0327

**SINCE 1972**

**ACCEPTED**

**7/02/2025**

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under

EPA Reg. No. 19713-729

The Drexel logo is a registered trademark of Drexel Chemical Company.

## **PRECAUTIONARY STATEMENTS**

### **Hazards to Humans and Domestic Animals**

**WARNING/AVISO:** May be fatal if swallowed. May be fatal if inhaled. Harmful if absorbed through skin. Causes moderate eye irritation. Do not breathe (vapor or spray mist). Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

#### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators and other handlers must wear:**

- Respirator with an organic vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P, or HE prefilter
- Long-sleeve shirt and long pants
- Socks and shoes
- Chemical-resistant gloves made of any waterproof material
- Protective eyewear (e.g., goggles, faceshield) by mixers, loaders, and applicators.
- chemical-resistant headgear for overhead exposure
- chemical-resistant apron when cleaning equipment, mixing, or loading
- face shield when mixing or loading

Respirator fit testing, medical qualification, and training using a program that conforms to OSHA's requirements (see 29 CFR Part 1910.134), employers must verify that any handler who uses a respirator is:

- Fit-tested and fit-checked,
- Trained, and
- Examined by a qualified medical practitioner to ensure physical ability to safely wear the style of respirator to be worn. A qualified medical practitioner is a physician or other licensed health care professional who will evaluate the ability of a worker to wear a respirator. The initial evaluation consists of a questionnaire that asks about medical conditions (including a heart condition) that would be problematic for respirator use. If concerns are identified, then additional evaluations, including a physical exam, might be necessary. The initial evaluation must be done before respirator use begins. Handlers must be reexamined by a qualified medical practitioner if their health status or respirator style or use-conditions change. Upon request by local/state/federal/tribal enforcement personnel, employers must provide documentation demonstrating how they have complied with these requirements.

#### **USER SAFETY REQUIREMENTS**

- Mixers and loaders supporting aerial applications must use closed mixing/loading systems that meet the requirements listed in the WPS for agricultural pesticides [40 CFR 170.607(d)(2)(i) & (ii)] for inhalation protection.
- 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.
- Human flagging is prohibited

#### **ENGINEERING CONTROLS**

Human flagging is prohibited.

The closed system must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4). When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS. Mixers, loaders, and applicators using closed systems who meet these requirements may wear:

- long-sleeved shirt and long pants
- protective eyewear
- Chemical-resistant gloves made made of any waterproof material
- shoes and socks
- chemical-resistant headgear for overhead exposure
- chemical-resistant apron when cleaning equipment, mixing, or loading
- chemical-resistant apron when mixing, loading, or cleaning equipment.

If handling tasks are performed from inside an enclosed cab or aircraft with enclosed cockpits that meet these requirements may wear:

- long-sleeved shirt, long pants
- shoes, and socks for the labeling-specified PPE. All labeling-specified PPE must be immediately available for use in an emergency.

All applicable requirements as specified in 40 CFR 170.240(d)(4-6) must be followed.

## USER SAFETY RECOMMENDATIONS

### Users should:

- 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

This pesticide is toxic to aquatic invertebrates.

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

**For Terrestrial Uses:** **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 or rinsate.

**For Aquatic Uses:** **DO NOT** apply directly to water except as specified on this label. Treatment of dense weed areas may result in oxygen loss from decomposition of dead weeds. This loss of oxygen may cause fish suffocation. Therefore, treat only one-third to one-half of the water body area at one time, especially if dense areas of weeds and/or Algae exist and wait 14 days between treatments.

Obtain the necessary approval and/or permits prior to application if required. Consult the responsible State Agencies (i.e., Fish and Game agencies or Department of Natural Resources) before making applications to public waters.

## 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.

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

**DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.**

## 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 (REI). 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 REI of 24 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, including plants, soil, or water, is:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves made of any waterproof material
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure.

## NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep all unprotected persons out of operating areas or vicinity where there may be drift.

**DO NOT allow people or pets to touch treated plants until the sprays have dried.**

**For terrestrial uses, DO NOT** allow entry of maintenance workers into treated areas, or allow contact with treated vegetation wet with spray, dew, or rain, without appropriate protective clothing until spray has dried.

**For aquatic uses, DO NOT** enter treated areas while treatments are in progress.

## PRODUCT INFORMATION

**Diquat 2SL** is a nonvolatile herbicide for use as a pre-harvest aid to desiccate certain crops to facilitate harvesting. It may also be used as a general herbicide to control weeds in noncrop areas, nonbearing crops and aquatic areas.

This product is a contact-type herbicide and requires actively growing green plant tissue to function. Thorough coverage of all green plant tissue is essential for effective control. It is rapidly absorbed by green plant tissue and interacts with the photosynthetic process to produce compounds which destroy plant cells. Herbicidal activity is usually quite rapid with effects visible in a few days.

## APPLICATION

Since this product is a contact-type herbicide, it is essential to obtain complete coverage of the target weed or crop to achieve effective results. Improper application technique and/or application to large, stressed or mowed weeds will generally result in unacceptable control.

Complete coverage is also essential for effective performance in harvest aid applications. See details below for additional information.

### Selection of Nozzle

The use of flat fan nozzles will result in the most effective application of this product. The use of nozzles other than flat fans may result in reduced performance due to inadequate coverage.

### Spray Volume

Follow specified minimum spray volumes listed for each use of this product. These are **minimum** volumes only. Increase spray volumes as necessary to obtain complete coverage of the target weed or plant without runoff from the foliage. When spraying less than 20 gallons of spray carrier per acre, target weeds should not exceed 6 inches in height.

## SPRAY ADJUVANTS

**Always Add One of the Following:**

### Nonionic Surfactant (NIS)

Add a NIS containing 75% or greater surface active agent at 0.06 to 0.5% v/v (0.5 to 4 pts./100 gal.) of the finished spray volume.

### Other Adjuvants

Adjuvants other than NIS may be used provided that the product meets the following criteria:

- Contains only EPA exempt ingredients.
- Is compatible in mixture. Compatibility may be established through a jar test.
- Is supported locally for use with this product through proven field trials and through university and extension recommendations.

## RATES

Follow specified rates listed with each use of this product. Use the higher label rates when weeds are large or dense. Also, use higher labeled rates for harvest aid when crop vegetation is dense.

## APPLICATION TIMING

**Apply this product to emerged weeds when they are small. Weeds 1 inch to 6 inches in height are the easiest to control.** When weeds have been grazed or mowed, thus, removing much of the green foliage, allow the weeds to regrow to a height of 2 to 4 inches before spraying. For proper application timing of harvest aid applications, refer to each crop for use directions. Weeds emerging after application of this product will not be controlled or suppressed.

## RAINFASTNESS

Because this product is rapidly absorbed by green plant tissue, rain occurring 30 minutes after application will have no effect on the activity of this product.

## ENVIRONMENTAL CONDITIONS

This product is active over a wide range of environmental conditions. Cool weather (below 55°F) will slow the activity of this product, as will cloudy, overcast weather, but will not affect performance.

In dry areas, dust stirred up by high winds or equipment tires can coat target surface and reduce the activity of this product. Avoid applying this product in extremely dusty conditions.

## SPRAY DRIFT MANAGEMENT

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR AND THE GROWER. WHERE STATES HAVE MORE STRINGENT REGULATIONS, THEY SHOULD BE OBSERVED.

### MANDATORY SPRAY DRIFT

#### Aerial Applications:

- **DO NOT** release spray at a height greater than 10 ft above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to use a medium or coarser droplet size (ASABE S572.1).
- **DO NOT** apply when wind speeds exceed 15 mph at the application site. If the windspeed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- If the windspeed is 10 miles per hour or less, applicators must use □ swath displacement upwind at the downwind edge of the field. When the windspeed is between 11-15 miles per hour, applicators must use □ swath displacement upwind at the downwind edge of the field.
- **DO NOT** apply during temperature inversions.

#### Ground Applications

- Follow label directions to reduce the potential for drift incidents.
- **DO NOT** make ground applications within a surface temperature inversion when applying near an area requiring protection to avoid an unreasonable adverse effect. Applicators may determine presence of an inversion by noting the presence of ground fog, light variable wind, or layering of smoke and dust.
- Applicators must estimate the prevailing wind speed and direction in the vicinity of the application site prior to and during the application. Measuring wind speed with an anemometer, observing wind speed and direction using a wind sock or wind vein or obtaining a report from a local meteorological station are acceptable methods of estimating wind speed and direction.
- Apply at the nozzle height that produces uniform coverage of the target.
- Apply when prevailing wind speed is 3 to 10 miles per hour.
- 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 sprayer upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).
- 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.
- Many factors, including droplet size and equipment type, determine drift potential at any given speed. Drift reduction technology or other mitigation methods should be employed to reduce drift potential.
- Use nozzles which deliver a coarser spray quality (droplet size spectrum) at application according to nozzle manufacturer, ASABE or USDA classification.
- The pesticide should only be applied 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).

**SPRAY DRIFT ADVISORIES**

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

**IMPORTANCE OF DROPLET SIZE**

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

**Controlling Droplet Size – Groundboom**

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure advised for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

**Controlling Droplet Size – Aircraft**

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

**BOOM HEIGHT – Groundboom**

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

**RELEASE HEIGHT - Aircraft**

Higher release heights increase the potential for spray drift.

**SHIELDED SPRAYERS**

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

**TEMPERATURE AND HUMIDITY**

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

**TEMPERATURE INVERSIONS**

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

**WIND**

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

**WEED RESISTANCE MANAGEMENT**

|                  |       |    |           |
|------------------|-------|----|-----------|
| DIQUAT DIBROMIDE | GROUP | 22 | HERBICIDE |
|------------------|-------|----|-----------|

For resistance management, this product is a Group 22 mode of action herbicide which inhibits Photosystem I. Any weed population may contain or develop plants naturally resistant to this product and other Group 22 mode of action herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Follow the appropriate resistance management strategies.

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

- Rotate the use of this product or other Group 22 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank-mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural ( e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Scout before and after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed



seed production in the affected area by an alternative herbicide from a different group or by a mechanical method including hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.

- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Drexel Chemical Company representatives at (901) 774-4370.

**Note:**

Within the United States, specific biotypes of a number of species, including American black nightshade (*Solanum americanum*), Goosegrass (*Eleusine indica*), Hairy fleabane (*Conyza bonariensis*) and Horseweed/Marestail (*Conyza canadensis*) have become resistant to Diquat.

Since the occurrence of resistant weeds is difficult to detect prior to use, Manufacturer accepts no liability for any losses that may result from the failure of this product to control resistant weeds.

## CROP USE SITES

### ALFALFA (SEED CROP ONLY)

| Use Pattern  | This Product<br>(Pts./Ac.)   | USE INSTRUCTIONS  |
|--|--|---|
| Pre-harvest<br>desiccation broadcast*  | 1.5 to 2<br>(0.70 to 0.93 lb. a.i.)<br><br>Thin stands: 1<br>(0.47 lb. a.i.) | <ul style="list-style-type: none"> <li>• By Ground: Minimum of 15 gal. of spray per acre.</li> <li>• By Air: Minimum of 5 gal. of spray per acre.</li> </ul> <p>*Desiccation is complete in 3 to 10 days.</p> |
| <b>USE RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 2 pts. of this product (0.93 lb. a.i.) per acre per application.</li> <li>• <b>DO NOT</b> make more than 1 applications per crop cycle (2 crop cycles per year) and 2 applications per year.</li> <li>• Minimum spray interval: 5 days</li> <li>• <b>DO NOT</b> apply more than 4 pts. of this product (3.75 lbs. a.i.) per acre per year.</li> <li>• Pre-harvest Interval (PHI): 3 days</li> <li>• <b>DO NOT</b> graze or feed treated forage to livestock.</li> <li>• <b>DO NOT</b> use seed from treated plants for food, feed, or oil purposes.</li> </ul> |  |   |

### CANOLA

| Use Pattern   | This Product<br>(Pts./Ac.)          | USE INSTRUCTIONS   |
|---|-------------------------------------|--|
| Pre-harvest<br>desiccation broadcast  | 1.5 to 2<br>(0.70 to 0.93 lb. a.i.) | <ul style="list-style-type: none"> <li>• By Ground: Minimum of 15 gal. of spray per acre.</li> <li>• By Air: Minimum of 5 gal. of spray per acre.</li> <li>• Complete the harvest no more than 10 days after application.</li> </ul> |
| <b>USE RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 2 pts. of this product (0.93 lb. a.i.) per acre per application.</li> <li>• <b>DO NOT</b> make more than 1 application per year.</li> <li>• <b>DO NOT</b> apply more than 2 pts. of this product (0.93 lb. a.i.) per acre per year.</li> <li>• Pre-harvest Interval (PHI): 7 days</li> <li>• <b>DO NOT</b> graze or feed treated forage to livestock.</li> <li>• <b>DO NOT</b> use seed from treated plants for food, feed, or oil purposes.</li> </ul> |                                     |  |

### CANTALOUPE (FL)

| Use Pattern   | This Product<br>(Pt./Ac.) | USE INSTRUCTIONS  |
|---|---------------------------|---|
| Burndown after final<br>harvest   | 1<br>(0.47 lb. a.i.)      | <ul style="list-style-type: none"> <li>• By Ground: Minimum of 35 gal. of spray per acre.</li> <li>• Add 1 to 2 pts. of nonionic surfactant per 100 gal. of water.</li> <li>• Thorough coverage is needed to ensure maximum burndown.</li> <li>• Use of dirty or muddy water may result in reduced efficacy.</li> </ul> |
| <b>USE RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply in states other than Florida.</li> <li>• <b>DO NOT</b> apply more than 1 pt. of this product (0.47 lb. a.i.) per acre per application.</li> <li>• <b>DO NOT</b> make more than 2 applications per crop cycle (3 crop cycles per year) and 6 applications per year.</li> <li>• Minimum spray interval: 5 days</li> <li>• <b>DO NOT</b> apply more than 6 pts. of this product (2.80 lbs. a.i.) per acre per year.</li> </ul> |                           |   |

**CARROTS, CILANTRO, RADISH, TURNIPS GROWN FOR SEED ONLY (ID, WA)**

| Use Pattern  | This Product<br>(Pts./Ac.)          | USE INSTRUCTIONS  |
|--|-------------------------------------|---|
| Pre-harvest desiccation broadcast  | 1.5 to 2<br>(0.70 to 0.93 lb. a.i.) | <ul style="list-style-type: none"> <li>• Apply only to crops grown for seed production for pre-harvest desiccation.</li> <li>• By Ground: 15 to 30 gal. of spray per acre.</li> <li>• By Air: Minimum of 5 gal. of spray per acre.</li> <li>• Apply 3 to 10 days before harvest prior to swathing when majority of the seeds are harvest-ripe.</li> </ul> |
| <b>USE RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply in states other than Idaho and Washington.</li> <li>• <b>DO NOT</b> apply more than 2 pts. of this product (0.93 lb. a.i.) per acre per application.</li> <li>• <b>DO NOT</b> make more than 1 application per year.</li> <li>• <b>DO NOT</b> apply more than 2 pts. of this product (0.93 lb. a.i.) per acre per year.</li> <li>• Pre-harvest Interval (PHI): 7 days</li> <li>• No portion of the Carrot, Cilantro, Radish or Turnip including, but not limited to seed screening, green chop, hay, chaff, combined tailings, pellets, meal, whole seed and cracked seed may be grazed, used or distributed for food or feed purposes.</li> <li>• Apply only to crops grown for seed production for pre-harvest desiccation.</li> <li>• <b>DO NOT</b> use on Daikon varieties of Radish.</li> </ul> |                                     |   |

**CLOVER (SEED CROP ONLY)**

| Use Pattern   | This Product<br>(Pts./Ac.)          | USE INSTRUCTIONS   |
|---|-------------------------------------|--|
| Pre-harvest desiccation broadcast*  | 1.5 to 2<br>(0.70 to 0.93 lb. a.i.) | <ul style="list-style-type: none"> <li>• By Ground: Minimum of 15 gal. of spray per acre.</li> <li>• By Air: Minimum of 5 gal. of spray per acre.</li> </ul> |
| <b>USE RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 2 pts. of this product (0.93 lb. a.i.) per acre per application.</li> <li>• <b>DO NOT</b> make more than 1 application per crop cycle (2 crop cycles per year) and 2 applications per year.</li> <li>• Minimum spray interval: 5 days</li> <li>• <b>DO NOT</b> apply more than 4 pts. of this product (1.87 lbs. a.i.) per acre per year.</li> <li>• Pre-harvest Interval (PHI): 3 days</li> <li>• <b>DO NOT</b> graze or feed treated forage to livestock.</li> <li>• <b>DO NOT</b> use seed from treated plants for food, feed, or oil purposes.</li> </ul> |                                     |  |

**CUCUMBERS, SQUASH (EXCEPT ACORN AND WATERMELON) (FL)**

| Use Pattern  | This Product<br>(Pts./Ac.) | USE INSTRUCTIONS  |
|--|----------------------------|---|
| Burndown after final harvest   | 1.5<br>(0.70 lb. a.i.)     | <ul style="list-style-type: none"> <li>• By Ground: Minimum of 35 gal. of spray per acre.</li> <li>• Add 1 to 2 pts. of nonionic surfactant per 100 gal. of water.</li> <li>• Thorough coverage is needed to ensure maximum burndown.</li> <li>• Use of dirty or muddy water may result in reduced efficacy.</li> </ul> |
| <b>USE RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply to states other than Florida.</li> <li>• <b>DO NOT</b> apply more than 1.5 pts. of this product (0.70 lb. a.i.) per acre per application.</li> <li>• <b>DO NOT</b> make more than 2 applications per crop cycle (3 crop cycles per year) and 6 applications per year.</li> <li>• Minimum spray interval: 5 days</li> <li>• <b>DO NOT</b> apply more than 9 pts. of this product (4.20 lbs. a.i.) per acre per year.</li> </ul> |                            |   |

**PEPPERS AND ACORN SQUASH (FL)**

| Use Pattern   | This Product<br>(Pts./Ac.) | USE INSTRUCTIONS  |
|---|----------------------------|---|
| Burndown after final harvest  | 2<br>(0.93 lb. a.i.)       | <ul style="list-style-type: none"> <li>• By Ground: Minimum of 35 gal. of spray per acre.</li> <li>• Add 1 to 2 pts. of nonionic surfactant per 100 gal. of water.</li> <li>• Thorough coverage is needed to ensure maximum burndown.</li> <li>• Use of dirty or muddy water may result in reduced efficacy.</li> </ul> |
| <b>USE RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply in states other than Florida.</li> <li>• <b>DO NOT</b> apply more than 2 pts. of this product (0.93 lb. a.i.) per acre per application.</li> <li>• <b>DO NOT</b> make more than 2 applications per crop cycle (3 crop cycles per year) and 6 applications per year.</li> <li>• Minimum spray interval: 5 days</li> <li>• <b>DO NOT</b> apply more than 12 pts. of this product (5.60 lbs. a.i.) per acre per year.</li> </ul> |                            |   |

## POTATOES

| Use Pattern  | This Product<br>(Pts./Ac.)        | USE INSTRUCTIONS   |
|--|-----------------------------------|--|
| Pre-harvest desiccation broadcast  | 1 to 2<br>(0.47 to 0.93 lb. a.i.) | <ul style="list-style-type: none"> <li>By Ground: Minimum of 20 gal. of spray per acre.</li> <li>By Air: Minimum of 5 gal. of spray per acre.</li> <li>Where vine growth is dense, make a second application, if necessary, to obtain additional desiccation.</li> </ul> |
| <b>USE RESTRICTIONS:</b> <ul style="list-style-type: none"> <li><b>DO NOT</b> apply to drought stressed Potatoes.</li> <li><b>DO NOT</b> apply more than 2 pts. of this product (0.93 lb. a.i.) per acre per application.</li> <li><b>DO NOT</b> make more than 1 application per year.</li> <li><b>DO NOT</b> apply more than 2 pts. of this product (0.93 lbs. a.i.) per acre per year.</li> <li>Pre-harvest Interval (PHI): 7 days</li> </ul> |                                   |  |

## POTATOES (ID, NV, WA)

| Use Pattern   | This Product<br>(Pts./Ac.)        | USE INSTRUCTIONS  |
|---|-----------------------------------|---|
| Pre-harvest desiccation broadcast plus Late blight fungicide tank-mixtures  | 1 to 2<br>(0.47 to 0.93 lb. a.i.) | <ul style="list-style-type: none"> <li>By Ground: Minimum of 20 gal. of spray per acre.</li> <li>By Air: Minimum of 5 gal. of spray per acre.</li> <li>Where vine growth is dense, make a second application, if necessary, to obtain additional desiccation.</li> <li>Use this product in tank-mixtures with labeled rates of Chlorothalonil, Chlorothalonil-Zn, Copper Hydroxide, Mancozeb and other fungicides approved for use against Potato Late blight.</li> <li>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.</li> </ul> |
| <b>USE RESTRICTIONS:</b> <ul style="list-style-type: none"> <li><b>DO NOT</b> apply in states other than Idaho, Nevada, and Washington.</li> <li><b>DO NOT</b> apply to drought stressed Potatoes.</li> <li><b>DO NOT</b> apply more than 2 pts. of this product (0.93 lb. a.i.) per acre per application.</li> <li><b>DO NOT</b> make more than 1 application per year.</li> <li><b>DO NOT</b> apply more than 2 pts. of this product (0.93 lbs. a.i.) per acre per year.</li> <li>Pre-harvest Interval (PHI): 7 days</li> </ul> |                                   |   |

## SPINACH AND TABLE BEETS GROWN FOR SEED ONLY (WA)

| Use Pattern  | This Product<br>(Pts./Ac.)          | USE INSTRUCTIONS  |
|--|-------------------------------------|---|
| Pre-harvest desiccation broadcast  | 1.5 to 2<br>(0.70 to 0.93 lb. a.i.) | <ul style="list-style-type: none"> <li>By Ground: 15 to 30 gal. of spray per acre.</li> <li>By Air: Minimum of 5 gal. of spray per acre.</li> <li>Apply only to crops grown for seed production for pre-harvest desiccation.</li> <li>Apply 3 to 10 days before harvest prior to swathing when majority of the seeds are harvest-ripe.</li> </ul> |
| <b>USE RESTRICTIONS:</b> <ul style="list-style-type: none"> <li><b>DO NOT</b> apply in states other than Washington.</li> <li><b>DO NOT</b> apply more than 2 pts. of this product (0.93 lb. a.i.) per acre per application.</li> <li><b>DO NOT</b> make more than 1 application per crop cycle (2 crop cycles per year) and 2 applications per year.</li> <li><b>DO NOT</b> apply more than 4 pts. of this product (1.87 lbs. a.i.) per acre per year.</li> <li>Minimum spray interval: 5 days</li> <li>No portion of the Spinach or Table beets including, but not limited to seed screening, green chop, hay, chaff, combined tailings, pellets, meal, whole seed and cracked seed may be grazed, used or distributed for food or feed purposes.</li> <li>Apply only to crops grown for seed production for pre-harvest desiccation.</li> </ul> |                                     |   |

**SUGAR BEETS GROWN FOR SEED ONLY (OR, WA)**

| Use Pattern  | This Product<br>(Pts./Ac.)          | USE INSTRUCTIONS  |
|--|-------------------------------------|---|
| Pre-harvest desiccation broadcast  | 1.5 to 2<br>(0.70 to 0.93 lb. a.i.) | <ul style="list-style-type: none"> <li>By Ground: 15 to 30 gal. of spray per acre.</li> <li>By Air: Minimum of 5 gal. of spray per acre.</li> <li>Apply 3 to 10 days before harvest prior to swathing when majority of the seeds are harvest-ripe.</li> </ul> |
| <b>USE RESTRICTIONS:</b> <ul style="list-style-type: none"> <li><b>DO NOT</b> use in states other than Oregon and Washington.</li> <li><b>DO NOT</b> apply more than 2 pts. of this product (0.93 lb. a.i.) per acre per application.</li> <li><b>DO NOT</b> make more than 1 application per year.</li> <li><b>DO NOT</b> apply more than 2 pts. of this product (0.93 lb. a.i.) per acre per year.</li> <li>No portion of the Sugar beets including, but not limited to seed screening, green chop, hay, chaff, combined tailings, pellets, meal, whole seed and cracked seed may be grazed, used or distributed for food or feed purposes.</li> <li>Apply only to crops grown for seed production for pre-harvest desiccation.</li> </ul> |                                     |   |

**TOMATO, EGGPLANT AND GREEN PEPPERS (FL)**

| Use Pattern  | This Product<br>(Pts./Ac.) | USE INSTRUCTIONS   |
|--|----------------------------|--|
| Directed spray in row middles  | 2<br>(0.93 lb. a.i.)       | <ul style="list-style-type: none"> <li>By Ground: 20 to 50 gal. of spray per acre</li> <li>Add 0.5 to 1 pt. of nonionic surfactant per 100 gal. of water.</li> <li>Apply when weeds are 2 to 4 inches in height. Weed control will decrease if treatment is made to weeds more than 4 inches in growth.</li> <li>This product can be tank-mixed with Paraquat for this use.</li> <li>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.</li> </ul> |
| <b>USE RESTRICTIONS:</b> <ul style="list-style-type: none"> <li><b>DO NOT</b> apply in states other than Florida.</li> <li><b>DO NOT</b> apply more than 2 pts. of this product (0.93 lb. a.i.) per acre per application.</li> <li><b>DO NOT</b> make more than 2 applications per crop cycle (3 crop cycles per year) and 6 applications per year.</li> <li>Minimum retreatment interval: 5 days</li> <li><b>DO NOT</b> apply more than 12 pts. of this product (5.60 lbs. a.i.) per acre per year.</li> <li>Pre-harvest Interval (PHI): 30 days</li> <li><b>DO NOT</b> allow spray to contact crop foliage or treat under conditions which will cause spray drift, as phytotoxicity to crop plants will occur.</li> <li><b>DO NOT</b> apply when wind speed is 5 mph or less.</li> <li><b>DO NOT</b> exceed 25 psi.</li> </ul> |                            |  |

**TOMATO (FL, SC)**

| Use Pattern   | This Product<br>(Pts./Ac.)          | USE INSTRUCTIONS  |
|---|-------------------------------------|---|
| Burndown after final harvest  | 1.5 to 2<br>(0.70 to 0.93 lb. a.i.) | <ul style="list-style-type: none"> <li>By Ground: 60 to 120 gal. of spray per acre.</li> <li>Add 0.5 to 1 pt. of nonionic surfactant per 100 gal. of water.</li> <li>Thorough coverage is needed to ensure maximum burndown.</li> <li>Use of dirty or muddy water may result in reduced efficacy.</li> <li>To aid in the removal of Sweet potato whitefly, burn dried Tomato vines as soon as possible with propane burners.</li> </ul> |
| <b>USE RESTRICTIONS:</b> <ul style="list-style-type: none"> <li><b>DO NOT</b> apply in states other than Florida and South Carolina.</li> <li><b>DO NOT</b> apply more than 2 pts. of this product (0.93 lb. a.i.) per acre per application.</li> <li><b>DO NOT</b> make more than 2 applications per crop cycle (3 crop cycles per year) and 6 applications per year.</li> <li>Minimum spray interval: 1 day</li> <li><b>DO NOT</b> apply more than 12 pts. of this product (5.60 lbs. a.i.) per acre per year.</li> </ul> |                                     |   |

**TREES, VINES, SMALL FRUITS, VEGETABLE CROPS - NONBEARING**

**Acerola (West Indian Cherry); Almonds; Apples; Apricots; Avocados; Bananas; Blackberry; Blueberry; Boysenberry; Cherries; Coffee; Crabapple; Dates; Dewberry; Elderberry; Figs; Filberts; Ginseng; Gooseberry; Grapes; Grapefruit; Guava; Huckleberry; Jojoba; Kiwi; Lemons; Limes; Loganberry; Macadamia; Mangoes; Nectarines; Olives; Oranges; Papayas; Passion Fruit; Peaches; Pears; Pecans; Persimmons; Pistachios; Plantains; Plums; Pomegranates; Prunes; Raspberry; Tangelos; Tangerines; Walnuts**

| Use Pattern   | This Product<br>(Pts./Ac.)          | USE INSTRUCTIONS   |
|---|-------------------------------------|--|
| Directed spray  | 1.5 to 2<br>(0.70 to 0.93 lb. a.i.) | <ul style="list-style-type: none"> <li>• By Ground: Minimum of 15 gal. of spray per acre.</li> <li>• Use a shield or wrap when spraying around young trees and vines.</li> <li>• Take care not to allow spray to come into contact with green stems, foliage or fruit as this can cause injury to the crop.</li> </ul> |
| <b>USE RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 2 pts. of this product (0.93 lb. a.i.) per acre per application.</li> <li>• <b>DO NOT</b> make more than 1 application per year.</li> <li>• <b>DO NOT</b> apply more than 2 pts. of this product (0.93 lb. a.i.) per acre per year.</li> <li>• <b>DO NOT</b> use for food or feed for one year after application.</li> <li>• <b>DO NOT</b> graze treated areas.</li> <li>• This product can be used during site preparation prior to planting and up to 1 year prior to harvest.</li> </ul> |                                     |  |

**Artichokes, Asparagus, Conifers, Cranberry**

| Use Pattern   | This Product<br>(Pts./Ac.)          | USE INSTRUCTIONS   |
|---|-------------------------------------|--|
| Directed spray  | 1.5 to 2<br>(0.70 to 0.93 lb. a.i.) | <ul style="list-style-type: none"> <li>• By Ground: Minimum of 15 gal. of spray per acre.</li> <li>• Use a shield or wrap when spraying around young trees and vines.</li> <li>• Take care not to allow spray to come into contact with green stems, foliage or fruit as this can cause injury to the crop.</li> <li>• Retreatment may be needed for complete control of grasses and older established weeds.</li> </ul> |
| <b>USE RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 2 pts. of this product (0.93 lb. a.i.) per acre per application.</li> <li>• <b>DO NOT</b> make more than 3 applications per year.</li> <li>• Minimum spray interval: 5 days</li> <li>• <b>DO NOT</b> apply more than 6 pts. of this product (2.80 lbs. a.i.) per acre per year.</li> <li>• <b>DO NOT</b> use for food or feed for one year after application.</li> <li>• <b>DO NOT</b> graze treated areas.</li> <li>• This product can be used during site preparation prior to planting and up to 1 year prior to harvest.</li> </ul> |                                     |  |

**NON-CROP OR NON-PLANTED AREAS ON FARMS (Includes Barrier Strips; Dry/Non-flooded Areas Around Drainage Ditches, Lakes and Ponds; Equipment Areas; Farm Buildings; Farm Yards; Fence Lines; Fuel Storage Areas)**

| Use Pattern  | This Product                               | USE INSTRUCTIONS  |
|--|--|---|
| Broadcast  | 1 to 2 pts./Ac.<br>(0.47 to 0.93 lb. a.i.) | <ul style="list-style-type: none"> <li>By Ground: Minimum of 15 gal. of water per acre.</li> <li>Ensure good coverage.</li> </ul>     |
| Spot spray   | 2 to 4 pts.<br>(0.94 to 1.87 lbs. a.i.)    | <ul style="list-style-type: none"> <li>Add the labeled rate of a 75% or greater nonionic surfactant per 100 gal. of water.</li> </ul> |
|  | 0.75 fl. oz. (22 mL)<br>(0.02 lb. a.i.)    | <ul style="list-style-type: none"> <li>Add the labeled rate of a 75% or greater nonionic surfactant per 1 gal. of water.</li> </ul>   |
| <b>USE RESTRICTIONS:</b> <ul style="list-style-type: none"> <li><b>For broadcast applications:</b> <ul style="list-style-type: none"> <li><b>DO NOT</b> apply more than 6 applications per year at reduced application rates.</li> <li><b>DO NOT</b> apply more than 2 pts. of this product (0.93 lb. a.i.) per acre, per application.</li> <li><b>DO NOT</b> apply more than 6 pts. of this product (2.80 lbs. a.i.) per acre, per year.</li> <li>Minimum spray interval is 28 days.</li> </ul> </li> <li><b>For spot applications:</b> <ul style="list-style-type: none"> <li><b>DO NOT</b> apply more than 3 applications per year.</li> <li><b>DO NOT</b> apply more than 0.046 pts. of this product (0.021 lb. a.i.) per 1,000 sq. ft. or 2 pts. (0.93 lb. a.i.) per acre, per application.</li> <li><b>DO NOT</b> apply more than 0.137 pts. of this product (0.064 lb. a.i.) per 1,000 sq. ft. or 6 pts. (2.80 lbs. a.i.) per acre, per year.</li> <li>If applying at 0.09 pts. (0.043 lb. a.i.) per 1,000 sq. ft. or 4 pts. (1.87 lbs. a.i.) per acre, <b>DO NOT</b> make more than one application per year.</li> <li>Minimum spray interval is 5 days.</li> </ul> </li> <li><b>DO NOT</b> apply more than the specified rates as it may result in staining of concrete-based materials.</li> </ul> |  |   |

**COMMERCIAL GREENHOUSES AND NURSERIES**

This product can be used to control weeds in commercial greenhouses (beneath benches), field grown and container stock, applied as pre-plant or post-plant pre-emergence in field grown ornamental nursery planting or post-emergence as a directed spray. This product may also be applied pre-emergence in Ornamental seed crops (except in the state of California).

| Use Pattern   | This Product                               | USE INSTRUCTIONS   |
|---|--|--|
| Broadcast   | 1 to 2 pts./Ac.<br>(0.47 to 0.93 lb. a.i.) | <ul style="list-style-type: none"> <li>By Ground: Minimum of 15 gal. of water per acre.</li> <li>Add the labeled rate of a 75% or greater nonionic surfactant per 100 gal. of spray mixture.</li> <li>Ensure good coverage.</li> </ul> |
| Spot spray  | 2 pts.<br>(0.93 lbs. a.i.)                 | <ul style="list-style-type: none"> <li>Add the labeled rate of a 75% or greater nonionic surfactant per 100 gal. of water.</li> </ul>  |
|   | 0.75 fl. oz. (22 mL)<br>(0.02 lb. a.i.)    | <ul style="list-style-type: none"> <li>Add the labeled rate of a 75% or greater nonionic surfactant per 1 gal. of water.</li> </ul>  |
| <b>USE RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>The use of mechanically-pressurized handguns to apply this product in greenhouses is prohibited.</li> <li><b>For broadcast treatments:</b> <ul style="list-style-type: none"> <li><b>DO NOT</b> apply more than 4 applications per year at reduced application rates.</li> <li><b>DO NOT</b> exceed 2 pts. of this product (0.93 lb. a.i.) per acre, per application.</li> <li><b>DO NOT</b> exceed 2 pts. of this product (0.93 lb. a.i.) per acre, per year.</li> <li><b>DO NOT</b> apply within 28 days of previous application.</li> </ul> </li> <li><b>For spot treatments:</b> <ul style="list-style-type: none"> <li><b>DO NOT</b> apply more than 4 applications per year.</li> <li><b>DO NOT</b> exceed 0.046 pts. of this product (0.021 lb. a.i.) per 1,000 sq. ft. or 2 pts. (0.93 lb. a.i.) per acre, per application.</li> <li><b>DO NOT</b> exceed 0.137 pts. of this product (0.064 lb. a.i.) per 1,000 sq. ft. or 6 pts. (2.80 lbs. a.i.) per acre, per year.</li> <li><b>DO NOT</b> apply within 5 days of previous application</li> <li><b>DO NOT</b> use for food or feed crops.</li> </ul> </li> </ul> |  |  |



## ORNAMENTAL SEED CROPS (FLOWERS, BULBS)

| Use Pattern   | This Product<br>(Pts./Ac.)          | USE INSTRUCTIONS  |
|---|-------------------------------------|---|
| Pre-harvest desiccation and weed burndown broadcast   | 1.5 to 2<br>(0.70 to 0.93 lb. a.i.) | <ul style="list-style-type: none"> <li>By Ground: Minimum of 15 gal. of spray per acre.</li> <li>By Air: Minimum of 5 gal. of spray per acre.</li> <li>Add the labeled rate of a 75% or greater nonionic surfactant.</li> </ul> |
| <b>USE RESTRICTIONS:</b> <ul style="list-style-type: none"> <li><b>DO NOT</b> use in the state of California.</li> <li><b>DO NOT</b> use on food or fiber crops.</li> <li><b>DO NOT</b> apply more than 2 pts. of this product (0.93 lb. a.i.) per acre, per application.</li> <li><b>DO NOT</b> apply more than 2 pts. of this product (0.93 lb. a.i.) per acre per year.</li> <li><b>DO NOT</b> make more than 3 applications per year at reduced application rate.</li> <li>Minimum retreatment interval is 5 days.</li> <li><b>DO NOT</b> use seed, screenings or waste as feed or for food consumption.</li> </ul> |                                     |   |

## COMMERCIAL, INDUSTRIAL, LANDSCAPE, RECREATIONAL, AND PUBLIC AREAS

### Intended for Commercial Use

This product is a contact/desiccant, non-selective herbicide that provides rapid control of undesirable growth including broadleaf and grassy weeds. It can be used as a broadcast or spot spray using the rates listed below in industrial sites (lumberyards, tank farms, airports, manufacturing plants, storage yards, parking lots), recreation areas (parks, fairgrounds, race tracks, tennis courts, athletic fields, golf courses), commercial buildings and structures (office buildings, hotels, motels), and public areas (rights of way including railroad, highways, roads, dividers and median, parking lots).

Complete coverage of the target weeds is essential to get good control. Improper application techniques and/or application to stressed weeds may result in unacceptable weed control. For best results, apply to actively growing, young weeds.

To control difficult weeds including perennial or deeply-rooted weeds, tank-mix this product with other systemic type of herbicides. For residual weed control, tank-mix this product with a pre-emergent herbicide labeled for the intended use site. If compatibility with the tank-mix product is not known, mix just a small amount first to determine if the mixture is physically compatible before proceeding with larger volumes. It is the pesticide user's responsibility to ensure that all tank-mixture 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.

| Use Pattern   | This Product                               | USE INSTRUCTIONS   |
|---|--|--|
| Broadcast   | 1 to 2 pts./Ac.<br>(0.47 to 0.93 lb. a.i.) | <ul style="list-style-type: none"> <li>Use sufficient water to ensure good spray coverage.</li> <li>Apply in minimum 60 gal. of water for dense weeds.</li> <li>Add the labeled rate of a 75% or greater nonionic surfactant per 100 gal. of spray mixture.</li> </ul> |
| Spot spray  | 2 to 4 pts.<br>(0.94 to 1.87 lbs. a.i.)    | Add the labeled rate of a 75% or greater nonionic surfactant per 100 gal. of water.  |
|   | 0.75 fl. oz. (22 mL)<br>(0.02 lb. a.i.)    | Add the labeled rate of a 75% or greater nonionic surfactant per 1 gal. of water.  |
| <b>USE RESTRICTIONS:</b> <ul style="list-style-type: none"> <li><b>For broadcast application:</b> <ul style="list-style-type: none"> <li><b>DO NOT</b> apply more than 2 pts. of this product (0.93 lb. a.i.) per acre per application.</li> <li><b>DO NOT</b> make more than 6 applications per year at reduced application rates.</li> <li><b>DO NOT</b> apply more than 6 pts. of this product (2.80 lbs. a.i.) per acre per year.</li> <li>Minimum retreatment interval is 28 days.</li> </ul> </li> <li><b>For spot treatment:</b> <ul style="list-style-type: none"> <li><b>DO NOT</b> apply more than 0.046 pts. of this product (0.021 lb. a.i.) per 1,000 sq. ft. or 2 pts. (0.93 lb. a.i.) per acre, per application.</li> <li><b>DO NOT</b> apply more than 0.137 pts. of this product (0.064 lb. a.i.) per 1,000 sq. ft. or 6 pts. (2.80 lbs. a.i.) per acre, per year.</li> <li><b>DO NOT</b> apply more than 3 applications at a reduced application rate.</li> <li>Minimum retreatment interval is 5 days.</li> <li><b>DO NOT</b> apply more than the specified rates as it may result in staining of concrete-based materials.</li> </ul> </li> </ul> |  |  |

## TURF RENOVATION (ALL TURF AREAS EXCEPT COMMERCIAL SOD FARMS)

To desiccate Golf course turf prior to renovation, apply 1 to 2 pints of this product (0.47 to 0.94 lb. a.i.) per acre plus the labeled rate of 75% or greater nonionic surfactant in 20 to 100 gallons of water (4 tsps. of this product] plus the labeled rate of a 75% or greater nonionic surfactant per 1 gal. of water) using ground spray equipment. Apply for full coverage and thorough contact with the Turfgrass. Apply only when the turf is dry, free from dew and incidental moisture. For enhanced Turf desiccation of treated Turfgrass, especially in the case of thick Turfgrass, use water volumes approaching 100 gallons of water per acre.

For suppression of regrowth and quick desiccation of treated Turfgrass, tank-mix this product with other systemic non-selective or systemic post-emergence grass weed herbicides. It is the pesticide user's responsibility to ensure that all tank-mixture 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.

**USE RESTRICTIONS:**

- **DO NOT** apply more than 2 pints of this product (0.93 lb. a.i.) per acre per application.
- **DO NOT** make more than 2 applications per year.
- Minimum spray interval: 28 days.
- **DO NOT** apply more than 4 pints of this product (1.87 lbs. a.i.) per acre per year.
- **DO NOT** graze livestock on treated turf or feed treated thatch to livestock.

**DORMANT ESTABLISHED TURFGRASS (BERMUDAGRASS, ZOYSIAGRASS), NON- FOOD OR FEED CROP**

To control of emerged annual broadleaf and grass weeds including Annual bluegrass, Bromes including Rescuegrass, Buttercup, Carolina geranium, Henbit, Little Barley\* and Six-weeks fescue in established dormant Bermudagrass and Zoysia Parks, Golf courses, apply 1 to 2 pints of this product (0.47 to 0.93 lb. a.i.) per acre in 20 to 100 gallons of spray mix by ground as a broadcast application. Add the labeled rate of 75% or greater nonionic surfactant per 100 gallons of spray mixture.

Bermudagrass or Zoysiagrass must be dormant at application. Application to actively growing Bermudagrass or Zoysiagrass may cause delay or permanent injury. Users in the extreme Southern areas must be attentive to the extent of dormancy at the time of application.

\*To control Little Barley, apply this product prior to the mid-boot stage.

**USE RESTRICTIONS:**

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- **DO NOT** make more than 2 applications per year.
- Minimum spray interval: 28 days.
- **DO NOT** apply more than 4 pints of this product (1.87 lbs. a.i.) per acre per year.

**AQUATIC USES (Not for Sale or Use in New York State)**

If required, obtain the necessary approval and/or permits prior to application. Consult the responsible State Agencies (i.e., Fish and Game Agencies or Department of Natural Resources).

Waters treated with this product may be hazardous to non-target aquatic organisms. Treatment of aquatic weeds and algae can result in oxygen loss from decomposition of dead biomass. This oxygen loss can cause fish and invertebrate suffocation. To minimize this hazard, **DO NOT** use products containing diquat dibromide to treat more than ½ of the water body (excluding water infrastructure and constructed conveyances including drainage canals, ditches and pipelines or intakes and aqueducts for drinking water or irrigation use) to avoid depletion of oxygen due to decaying vegetation. Wait at least 7 days between diquat dibromide treatments of contiguous waterbody sections. Begin treatment along the shore and proceed outward in bands to allow fish to move into untreated areas. Consult with the state or local agency with primary responsibility for regulating pesticides before applying this product to public waters to determine if a permit is required.

The use of a vehicle-mounted boom sprayer to apply this product above the water surface for treatment of floating, emergent, or marginal vegetation, except for applications made via aircraft, is prohibited. This prohibition does not apply to applications made below the water surface via submersed or trailing hoses.

Treatment of dense weed areas may result in oxygen loss from decomposition of dead weeds. This loss of oxygen may cause fish suffocation. Therefore, treat only one-third to one-half of the water body area at one time and wait 14 days between treatments.

For best results on submersed weeds, apply this product to actively growing (photosynthesizing) weeds when water temperatures have reached or exceeded approximately 50°F, typically during the Spring or early Summer.

For application only to still water including farm ponds, farm lakes and farm drainage ditches) where there is minimal or no outflow to public waters

And / Or

For applications to **public waters** in ponds, lakes, reservoirs, marshes, bayous, drainage ditches, canals, streams, rivers, and other slow-moving or quiescent bodies of water for control of aquatic weeds for use by:

- Corps of Engineers; OR
- Federal or State Public Agencies (i.e., Water Management District personnel, municipal officials); OR



- Applicators and/or Licensees (Certified for aquatic pest control) that are authorized by the State or Local government.

Treated water may be used according to the following table or until such time as an approved assay (e.g., PAM II Spectromatic Method) shows that the water does not contain more than the designated maximum contaminant level goal (MCLG) of 0.02 mg/L (ppm) of Diquat dibromide (calculated as the cation):

#### Water Use Restrictions Following Application of This Product (Days)

| This Product Per Surface Acre (Gal.)  | Drinking Water | Fishing and Swimming | Livestock Consumption | Spray Tank Applications** and Irrigation to Turf and Ornamentals | Spray Tank Applications** and Irrigation to Food Crops & Production Ornamentals |
|---|----------------|----------------------|-----------------------|--|---|
| 0.75<br>(2.80 lbs. a.i.)  | 2 days         | 0                    | 1 day                 | 2 days   | 5 days  |
| 0.5<br>(1.87 lbs. a.i.)   | 1 day          | 0                    | 1 day                 | 1 day  | 5 days  |
| Spot Spray* (< 0.5 gal.) (< 1.87 lbs. a.i.)   | 1 day          | 0                    | 1 day                 | 1 day  | 5 days  |
| * Rates refer to total surface area.<br>** For preparing agricultural sprays for food crops, Turf or Ornamentals (to prevent phytotoxicity), <b>DO NOT</b> use water treated with this product before the specified time periods. When the contents of more than one spray tank is necessary to complete a single aquatic application, no water holding restrictions apply between the consecutive spray tanks. |                |                      |                       |  |   |

No applications are to be made in areas where commercial processing of fish, resulting in the production of fish protein concentrate or fish meal, is practiced. Before application, coordination and approval of local and/or State authorities must be obtained.

#### FLOATING AND MARGINAL WEEDS

This product can be used to control floating and marginal weeds including those listed below. This product may be applied by airboat, airplane, backpack, helicopter, spray handgun or similar application equipment that provides thorough spray coverage.

|   |  |  |
|---|--|--|
| Duckweed ( <i>Lemna</i> spp.)<br>Frog's bit ( <i>Limnobium spongia</i> )* | Pennywort ( <i>Hydrocotyle</i> spp.) <i>Salvinia</i> spp. (including <i>S. molesta</i> )<br>Water hyacinth ( <i>Eichhornia crassipes</i> ) | Water lettuce ( <i>Pistia stratiotes</i> ) |
| *Not registered for use in California.                                    |  |  |

#### Broadcast Treatment

| This Product Per Surface Acre (Gal.)*   | USE INSTRUCTIONS  |
|---|---|
| 0.5 to 0.66<br>(1.87 to 2.5 lbs. a.i.)  | Good coverage is necessary for control of the target weed(s).<br>Apply this product in sufficient carrier plus 16 to 32 fl. oz./Ac. of an approved wetting agent. Repeat application as needed for densely populated areas at minimum 14-day intervals. |
| <b>USE RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 0.66 gal. of this product (2.5 lbs. a.i.) per surface acre per application.</li> <li>• <b>DO NOT</b> make more than 12 applications per year.</li> <li>• <b>DO NOT</b> apply more than 7.92 gal. of this product (30 lbs. a.i.) per surface acre per year.</li> <li>• Minimum retreatment interval is 14 days</li> <li>• <b>DO NOT</b> apply this product at a rate greater than 2.5 lb ai/surface-acre per application for the control of floating, emergent, or marginal vegetation.</li> </ul> |   |
| *For Duckweed control, apply this product at a maximum rate of 0.66 gal. (2.5 lbs. a.i.) per surface acre.  |   |

#### Spot Treatment

| This Product Per Surface Acre (Gal.)*   | USE INSTRUCTIONS   |
|---|--|
| 0.5<br>(1.87 lbs. a.i.)   | Apply this product in 100 gal. of spray carrier (0.5% v/v solution) plus 0.25 to 1% v/v (2 pts. to 1 gal. /100 gal. of water) of an approved wetting agent. Spray to completely wet target weed(s) but not to runoff. Repeat application as needed for complete control at minimum 14-day intervals. |
| <b>USE RESTRICTIONS:</b> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> apply more than 0.46 gal. of this product (0.17 lb. a.i.) per 1,000 sq. ft. or 2 gal. (7.5 lbs. a.i.) per surface acre, per application.</li> <li>• <b>DO NOT</b> apply more than 0.55 gal. of this product (2.07 lbs. a.i.) per 1,000 sq. ft. or 24 gal. of this product (90 lbs. a.i.) per surface acre per year.</li> <li>• <b>DO NOT</b> make more than 12 applications per year.</li> <li>• Minimum retreatment interval is 14 days.</li> <li>• <b>DO NOT</b> apply this product at a rate greater than 2.5 lb ai/surface-acre per application for the control of floating, emergent, or marginal vegetation.</li> </ul> |  |

## SUBMERSED WEEDS

This product can be used to control submersed weeds including the following:

|  |  |   |
|--|--|---|
| Algae ( <i>Spirogyra</i> and <i>Pithophora</i> spp.)*<br>Bladderwort ( <i>Utricularia</i> spp.)<br>Brazilian waterweed ( <i>Egeria densa</i> )<br>Coontail ( <i>Ceratophyllum demersum</i> ) | Hydrilla ( <i>Hydrilla verticillata</i> )<br>Naiad ( <i>Najas</i> spp.)<br>Pond weeds ( <i>Potamogeton</i> spp.)** | Watermilfoils (including Eurasian)<br>( <i>Myriophyllum</i> spp.) Waterweeds<br>( <i>Elodea</i> spp.) |
| *Suppression only. For control, apply this product in tank-mixture with an approved algaecide.<br>**Except Richardson's pondweed ( <i>Potamogeton richardsonii</i> ).                        |  |   |

## Application

Apply this product in water at 0.5 to 1.07 gallons (1.88 to 2.5 lbs. a.i.) per surface acre (per 4 ft. water depth). For best results, retreat as necessary on a 14- to 21-day intervals.

**Note:** For severe weed or Algae infestations, the use of an approved Algaecide prior to application of this product or as a tank-mixture may result in enhanced weed control. 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.

The table below shows how many gallons of this product to apply per surface acre based on water depth.

| Base Rate                               | This Product (Gal.) Per Surface Acre |                         |                          |                         |
|---|--------------------------------------|-------------------------|--------------------------|-------------------------|
|   | Average Water Depth                  |                         |                          |                         |
|   | 1 Ft.                                | 2 Ft.                   | 3 Ft.                    | 4 Ft.                   |
| 1 Gal./Surface Acre<br>(3.75 lbs. a.i.) | 0.25<br>(0.94 lb. a.i.)              | 0.5<br>(1.88 lbs. a.i.) | 0.75<br>(2.82 lbs. a.i.) | 1.0<br>(3.75 lbs. a.i.) |

**Subsurface Applications:** Where growth of submersed weeds (especially Hydrilla) has reached the water surface, apply either in a water carrier or an invert emulsion through boom trailing hoses carrying nozzle tips to apply the dilute spray below the water surface to insure adequate coverage.

**Bottom Placement:** Where growth of water submersed weeds, particularly Bladderwort, Coontail or Hydrilla have reached the water surface and/or where the water is slowly moving through the weed growth, control may be enhanced when applied in an invert emulsion carrier injecting this product in a diluted form near the bottom with weighted hoses. The addition of a Copper based algaecide may improve control. If Algae are present along with the submersed weeds, a pretreatment with an approved algaecide may improve overall control.

**Surface Application for Submerged Aquatic Weeds:** For submerged aquatic weeds, apply this product either as concentrate slowly poured directly from the container in strips or as a spray in sufficient carrier. Make applications ensuring complete coverage of the target areas. In mixed weed populations, use the high labeled rate of application as indicated by weeds present.

## Restrictions

- The use of a vehicle-mounted boom sprayer to apply this product above the water surface for treatment of floating, emergent, or marginal vegetation, except for applications made via aircraft, is prohibited. This prohibition does not apply to applications made below the water surface via submerged or trailing hoses.
- DO NOT** apply more than 0.26 gallons of this product (1.0 lbs. a.i.) per surface acre (per 4 ft. water depth) per application.
- DO NOT** make more than 12 applications per year.
- Minimum retreatment interval is 14 days.
- DO NOT** apply more than 3.1 gallons of this product (11.64 lbs. a.i.) per year.

**Note:** If posting is required by your state or tribe, consult the agency responsible for pesticide regulations for specific details.

## Water Use Restrictions Relative to Operating Potable Water Intakes (FL, ID & SC)

- Flowing Water (e.g., Canals, Rivers, Streams):** **DO NOT** apply within 1600 feet upstream or within 400 feet downstream of operating potable water intake sites.
- Standing Water (e.g., Lakes, Reservoirs):** **DO NOT** apply within 1400 feet for rates at 2 gallons per surface acre; within 700 feet for rates at 1 gallon per surface acre; or within 350 feet for rates equal to or less than 0.5 gallon per surface acre of potable water intake sites. For rates between 1 and 2 gallons per surface acre, distance may be adjusted (e.g., 1.75 gal. = 1225 ft; 1.5 gal. = 1050 ft.; 1.25 gal.= 875 ft.).
- To make applications within these restricted areas, the intake must be turned off for the time period specified in the above "Water Use Restrictions Following Applications With This Product (Days)" table.

## Restrictions

- DO NOT** use in states other than Florida, Idaho, and South Carolina.

## STORAGE AND DISPOSAL

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

To prevent accidental poisoning, never store this product in food, drink, or unlabeled containers.

**PESTICIDE STORAGE:** To prevent accidental poisoning, never store this product in food, drink or unlabeled containers. Keep pesticide in original container. **DO NOT** put concentrate or dilute into food or drink containers. **DO NOT** contaminate feed, foodstuffs, or drinking water. **DO NOT** store or transport near feed or food. Store at temperature above 32°F. Open dumping is prohibited. For help with any spill, leak, fire or exposure involving this material, call CHEMTREC at 800-424-9300.

**PESTICIDE DISPOSAL:** To avoid waste, use all materials in this container by application according to label directions.

If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often, such programs are run by State or local governments or by industry).

### CONTAINER HANDLING:

**Nonrefillable Container (plastic; ≤ 5 gallons):** Nonrefillable container. **DO NOT** reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container one-fourth 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. Offer for recycling, if available, or dispose of empty container in a sanitary landfill or by or by other procedures allowed by state and local authorities.

**Nonrefillable Container (plastic; > 5 gallons up to < 250 gallons):** Nonrefillable container **DO NOT** reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container one-fourth 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. Offer for recycling, if available, or dispose of empty container in a sanitary landfill or by or by other procedures allowed by state and local authorities.

**Plastic Refillable Container (≥ 250 gallons & Bulk):** Refillable container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% 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. Offer for recycling, if available, or dispose of empty container in a sanitary landfill or by or by other procedures allowed by state and local authorities.

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

## WARRANTY—CONDITIONS OF SALE

OUR DIRECTIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. To the extent consistent with applicable law, Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith. To the extent consistent with applicable law, in no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.