

2023-1201  
2023-05-04

<b>GROUP</b>	<b>9</b>	<b>HERBICIDE</b>
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**BLADE GLYPHOSATE 480 Liquid Herbicide**

**Water soluble herbicide for nonselective weed control in CROPLAND SYSTEMS AND IN NON-CROPLAND AREAS.**

SOLUTION

COMMERCIAL  
(AGRICULTURAL and  
INDUSTRIAL)

READ THE LABEL AND BOOKLET BEFORE

USING

KEEP OUT OF REACH OF CHILDREN

**ACTIVE INGREDIENT:** Glyphosate (present as isopropylamine salt) . . . . .480 g/L

REGISTRATION NO. 34847 PEST CONTROL PRODUCTS ACT.

DANGER EYE IRRITANT  
DANGER SKIN IRRITANT.  
POTENTIAL SKIN SENSITIZER

Read NOTICE before buying or using. If notice terms are not acceptable, return at once unopened.

Net Contents: 1-1000 Liters

Jiangsu Good Harvest-Weien Agrochemical Co., Ltd.  
Add: Laogang, Qidong City,  
Jiangsu 226221 China

Canadian representative:  
Hanson Industry Company  
Add: 400 Sangeet Place, Richmond, Ontario  
K0A 2Z0 Canada  
Phone: +1-519-702-2185

## PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN.

HARMFUL IF SWALLOWED.

Severely irritating to the eyes. DO NOT get in eyes.

May irritate the skin. Avoid contact with skin.

Potential skin sensitizer.

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing, loading, clean-up and repair. Gloves are not required during application within a closed cab and/or cockpit.

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. The pilot is allowed to load premixed chemicals with a closed system.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., contact Jiangsu Good Harvest-Weien Agrochemical Co., Ltd.

When tank-mixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

<b>All crop-land uses</b>	<b>DO NOT</b> enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.
<b>Non-cropland uses</b>	<b>DO NOT</b> enter or allow worker entry into treated areas until sprays have dried.

## 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 the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

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

**IF SWALLOWED:** Call a poison control centre 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 centre 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 by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

### **TOXICOLOGICAL INFORMATION**

Treat symptomatically.

### **ENVIRONMENTAL PRECAUTIONS**

Toxic to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE. To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

## PHYSICAL OR CHEMICAL HAZARDS

Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminum, fiberglass, plastic and plastic-lined steel containers. DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

## STORAGE

Store this product away from food or feed.  
Avoid contamination of seed, feed, and foodstuffs.  
Soak up small amounts of spill with absorbent clays.

## DISPOSAL

### RECYCLABLE CONTAINERS:

DO NOT reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

- 1) Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
- 2) Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

### RETURNABLE CONTAINERS:

DO NOT reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

### REFILLABLE CONTAINERS:

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for the clean-up of spills.

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label.

**In case of an emergency involving this product, Call CHEMTREC**

Accident/Spills/Medical Emergency ..... 800-424-9300

For additional information on this or other Jiangsu Good Harvest-Weien Agrochemical Co., Ltd agricultural products, contact Jiangsu Good Harvest-Weien Agrochemical Co., Ltd at 1-519 702 2185

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GLYPHOSATE 480  
Liquid Herbicide**

**Water soluble herbicide for nonselective weed control in  
CROPLAND SYSTEMS AND IN NON-CROPLAND AREAS.**

**SOLUTION**

**COMMERCIAL (AGRICULTURAL**

**and INDUSTRIAL)**

**READ THE LABEL BEFORE USING.**

**ACTIVE INGREDIENT:** Glyphosate, (present as isopropylamine salt)..... 480 g/L

REGISTRATION NO. **34847** PEST CONTROL PRODUCTS ACT.

**DANGER: EYE AND SKIN IRRITANT**  
POTENTIAL SKIN SENSITIZER

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## **CONTENTS**

### **1.0 PRODUCT DESCRIPTION**

### **2.0 EMERGENCY NUMBERS**

#### 2.1 Information

### **3.0 PRECAUTIONS**

#### 3.1 First Aid

#### 3.2 Toxicological Information

#### 3.3 Environmental Precautions

#### 3.4 Physical or Chemical Hazards

#### 3.5 Storage

#### 3.6 Disposal

### **4.0 GENERAL INFORMATION**

### **5.0 MIXING AND APPLICATION**

#### 5.1 Precautions

#### 5.2 Equipment Information

#### 5.3 Spray Buffer Zones

### **6.0 WEEDS CONTROLLED**

#### 6.1 Annual Weeds

#### 6.2 Perennial Weeds

#### 6.3 Woody Brush and Trees

## **CROPLAND USES**

### **7.0 ANNUAL WEED CONTROL**

#### 7.1 Annual Weed Control with BLADE GLYPHOSATE 480 LIQUID HERBICIDE

#### 7.2 Annual Weed Control with BLADE GLYPHOSATE 480 LIQUID HERBICIDE Tank Mixtures

#### 7.3 Surfactant Information

#### 7.4 Additional Important Information for Annual Weed Control

### **8.0 PERENNIAL WEED CONTROL**

#### 8.1 Perennial Weed Control with BLADE GLYPHOSATE 480 LIQUID HERBICIDE

#### 8.2 Special Notes for Perennial Weed Control

##### 8.2.1 Quackgrass

##### 8.2.2 Surfactant Information

##### 8.2.3 Canada Thistle

##### 8.2.4 Toadflax

##### 8.2.5 Dandelion

##### 8.2.6 Alfalfa Control with 2,4-D Tank Mix

##### 8.2.7 All Perennial Weeds

**9.0 CROPLAND SITUATIONS**

- 9.1 Prior to Planting - All Crops
- 9.2 Post Harvest Stubble Treatment
- 9.3 Spot treatment (In-Crop)
  - 9.3.1 Grazing Restrictions
- 9.4 Summer fallow Treatment
- 9.5 Minimum and Zero Tillage Cropping Systems
  - 9.5.1 BLADE GLYPHOSATE 480 LIQUID HERBICIDE plus Pardner®
  - 9.5.2 BLADE GLYPHOSATE 480 LIQUID HERBICIDE plus Pursuit®
- 9.6 Forage Legumes and Grasses
- 9.7 Pasture Renovation
- 9.8 Forage Seed Production
- 9.9 Preharvest Treatment
  - 9.9.1 Guidelines for Timing of Preharvest Applications
- 9.10 Tree Plantings
- 9.11 Tree, Vine and Berry Crops
- 9.12 Selective Equipment

**10.0 NON-CROPLAND USES: INDUSTRIAL, RIGHTS OF WAY, RECREATIONAL, AND PUBLIC AREAS**

- 10.1 Weed Control In Non-Cropland Areas
- 10.2 Application Information for Non-Cropland Uses
  - 10.2.1 Ground Applications
  - 10.2.2 Aerial application (rights-of-way only)
  - 10.2.3 Purple Loosestrife Control
- 10.3 Selective Equipment for Non-Cropland Uses
- 10.4 Turfgrass
- 10.5 Injection Applications
- 10.6 Cut Stump Application

**BLADE  
GLYPHOSATE 480  
LIQUID  
HERBICIDE**

**1.0 PRODUCT DESCRIPTION**

Water soluble herbicide for non-selective weed control in CROPLAND SYSTEMS AND IN NON-CROPLAND AREAS.

**CROPLAND USES INCLUDE:**

In cropping systems before planting of all crops; in minimum tillage systems, preharvest applications in wheat, barley, oats, canola (rapeseed), flax (including low linolenic acid varieties), peas, lentils, dry beans, soybeans and forages; in pasture renovation; in forage, legume and grass establishments; in tree crops including apple, pear, cherry, plum, peach, apricot, filbert, hazelnut, walnut, chestnut, Japanese heartnut; in grapes, cranberries, blueberries and strawberry; in sugar beets; in tree plantings; and grasses for seed production.

**NON-CROPLAND USES INCLUDE:**

Industrial; recreational, rights-of-way, and public areas; turf grass renovation.  
No licence implied or granted under any non-Canada patent. Not for relabelling or repackaging.

**2.0 In case of an emergency involving this product,** Call CHEMTREC, day or night:  
Accident/Spills/Medical Emergency ..... (800) 424-9300

Read NOTICE before buying or using. If notice terms are not acceptable, return at once unopened.

**2.1 INFORMATION**

For additional information on this or other Jiangsu Good Harvest-Weien Agrochemical Co., Ltd agricultural products, call the Jiangsu Good Harvest-Weien Agrochemical Co., Ltd 1-519-702-2185.

**3.0 PRECAUTIONS**

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HARMFUL IF SWALLOWED.

Severely irritating to the eyes. DO NOT get in eyes.

May irritate the skin. Avoid contact with skin.

Potential skin sensitizer.

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing, loading, clean-up and repair. Gloves are not required during application within a closed cab and/or cockpit.

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. The pilot is allowed to load premixed chemicals with a closed system.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

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**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

### 3.2 TOXICOLOGICAL INFORMATION

Treat symptomatically.

### 3.3 ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE. To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

### 3.4 PHYSICAL OR CHEMICAL HAZARDS

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STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

### **3.5 STORAGE**

Store this product away from food or feed.  
Avoid contamination of seed, feed, and foodstuffs.  
Soak up small amounts of spill with absorbent clays.

### **3.6 DISPOSAL**

#### **RECYCLABLE CONTAINERS:**

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

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For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, or for the clean-up of spills.

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label.

#### **4.0 GENERAL INFORMATION**

Do not apply this product using aerial spray equipment except under conditions as specified within this label.

BLADE GLYPHOSATE 480 LIQUID HERBICIDE, a water soluble liquid, mixes readily with water for application as a foliage spray for the control or destruction of most herbaceous plants. It may be applied through most standard industrial or field type sprayers after dilution and thorough mixing with water in accordance with the booklet instructions.

This herbicide moves through the plant from the point of foliage contact to and into the root system. Visible effects on most annual weeds occur within 2 to 4 days but on most perennial weeds may not occur until 7 to 10 days. Extremely cool or cloudy weather at treatment time may slow down activity of this product and delay visual effects of control. Visible effects are a gradual wilting and yellowing of the plant which advances to complete browning of above ground growth and deterioration of underground plant parts.

Delay application until vegetation has emerged to the stages described for control of such vegetation under the annual and perennial weed control sections of this booklet to provide adequate leaf surface to receive the spray. Unemerged plants arising from underground rhizomes or root stocks of perennials will not be affected by the spray and will continue to grow. For this reason best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity.

Always use the higher rate of this product per hectare within the recommended range when weed growth is heavy or dense, or weeds are growing in an undisturbed (non-cultivated) area.

Do not treat weeds under poor growing conditions such as drought stress, disease or insect damage, as reduced weed control may result. Reduced results may also occur when treating weeds heavily covered with dust.

This product does not provide residual weed control. For subsequent residual weed control follow a label approved herbicide program. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

Heavy rainfall immediately after application may wash the chemical off the foliage and a repeat treatment may be required. Do not apply if rainfall is forecast for the time of application.

Do not mix with any surfactant, pesticide, herbicide oils or any other material other than water unless specified in this booklet. For best results, spray coverage should be uniform and complete. Do not spray weed foliage to the point of runoff.

Glyphosate is not to be applied using hand-wicking or hand-daubing methods.

### **RESISTANCE-MANAGEMENT RECOMMENDATIONS**

For resistance management, BLADE GLYPHOSATE 480 LIQUID HERBICIDE is a Group 9 herbicide. Any weed population may contain or develop plants naturally resistant to BLADE GLYPHOSATE 480 LIQUID HERBICIDE and other Group 9 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of BLADE GLYPHOSATE 480 LIQUID HERBICIDE or other Group 9 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 when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.
- Contact your local extension specialist or certified crop advisors for any 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 Jiangsu Good Harvest-Weien Agrochemical Co., Ltd

## 5.0 MIXING AND APPLICATION

### 5.1 PRECAUTIONS

**ATTENTION: AVOID CONTACT WITH FOLIAGE, GREEN STEMS, OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.**

**APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIVERING DESIRED VOLUMES.**

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

Do not allow spray mist to drift since even minute quantities of spray can cause severe damage or destruction to nearby crops, plants or other areas on which treatment is not intended, or may cause other unintended consequences. Do not apply when winds are gusty or in excess of 8 km/h or when other conditions, including lesser wind velocities, will allow drift to occur.

When spraying, avoid combinations of pressure and nozzle type that will result in fine particles (mist) which are more likely to drift.

**DO NOT USE IN GREENHOUSES. REDUCED RESULTS MAY OCCUR IF WATER CONTAINING SOIL IS USED, SUCH AS WATER FROM UNLINED DITCHES AND PONDS.**

Clean sprayer and parts immediately after using this product by thoroughly flushing with water.

As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.

**DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

NOTE: Use of this product in any manner not consistent with this booklet may result in injury to persons, animals or crops, or other unintended consequences. Keep container closed to prevent spills and contamination.

### 5.2 EQUIPMENT INFORMATION

#### MIXING

For ground or industrial type sprayers, fill the spray tank with one-half the required amount of water. Add the proper amount of herbicide (see "Weed Control" sections 7.1 and 8.1) and mix well before adding the remaining portion of water. Placing the filling hose below the surface of the liquid solution will prevent excessive foaming. Removing hose from tank immediately will avoid back siphoning into water source. Use of mechanical agitators may cause excessive foaming. Bypass lines should terminate at the bottom of the tank.

For use in knapsack sprayers, it is suggested that the proper amount of this herbicide be mixed with water in a larger container. Fill sprayer with the mixed solution.

#### APPLICATION EQUIPMENT

##### BOOM EQUIPMENT

**For control of perennial weeds and woody brush and trees listed on this booklet using conventional boom equipment--** Apply this product in 50 to 300 L of clean water per hectare as a broadcast spray using no more than 275 kPa pressure. See "Weed Control" (sections 7.1 and 8.1) for rates to control specific weeds.

**For control of annual weeds listed on this booklet using conventional boom equipment-** Apply

this product in 50 to 100 L of clean water per hectare as a broadcast spray, except as otherwise stated on this label using no more than 275 kPa pressure. See "Weed Control" (sections 7.1 and 8.1) for rates to control specific weeds.

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) coarse classification. Boom height must be 60 cm or less above the crop or ground.

### **HAND HELD AND HIGH VOLUME EQUIPMENT (use coarse sprays only)**

Glyphosate is not to be applied using hand-wicking or hand-daubing methods.

**For control of weeds and woody brush and trees listed in the "Weed Controlled" section of this label using knapsack sprayers or high volume spraying equipment utilizing handguns or other suitable nozzle arrangements** -- Unless otherwise specified, make a 0.75% solution of this product in water (0.75 litre of this product in 100 litres of water) and apply to foliage of vegetation to be controlled. For best results, use a 1.5% solution (1.5 liters of this product in 100 liters of water) on harder to control perennials such as field bindweed, hemp dog-bane, milkweed and Canada thistle.

Applications should be made on a spray-to-wet basis. Spray coverage should be uniform and complete. Do not spray to point of runoff. Hand gun applications should be properly directed to avoid spraying desirable plants.

### **SELECTIVE EQUIPMENT**

Selective equipment such as WIPER and ROLLER applicators can be used for weed control in soy and dry beans, orchards, vineyards, cranberries, strawberries and non-crop areas. For information regarding use of this product with selective equipment, refer to "Selective Equipment" (section 9.12).

### **AERIAL EQUIPMENT (NON-CROPLAND USE ONLY)**

Aerial application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 16 km/h at flying height at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) coarse classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing-or rotorspan.

Aerial application can only be used for weed control in industrial rights-of-way. Refer to "Aerial Applications: For industrial rights-of-way only" section 10.2.2 for more information.

### **WEEDS CONTROLLED**

This product controls many annual and perennial grasses, broadleaf weeds, and woody brush and trees when applied as recommended and under conditions described. For information on how to control specific weeds including herbicide rate refer to the "Annual Weed Control" and "Perennial Weed Control" sections of this label (sections 7.1 and 8.1, respectively). The following is a partial list of weeds controlled:

### **5.3 SPRAY BUFFER ZONES**

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label,
- low-clearance hooded or shielded sprayers that prevent contact with crop, fruit or foliage.

For application to rights-of-way and for forestry uses, spray buffer zones for protection of sensitive terrestrial habitats are not required; however, the best available application strategies which minimize off-site drift, including meteorological conditions (e.g., wind direction, low wind speed) and spray equipment (e.g., coarse droplet sizes, minimizing height above canopy), should be used. Applicators must, however, observe the specified spray buffer zones for protection of sensitive aquatic habitats.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine / marine habitats.

Table 1 – Spray Buffer Zones for the Protection of Aquatic and Terrestrial Habitats from Spray Drift of Glyphosate Products Formulated with POEA

<b><u>Agricultural, forestry and non-cropland systems</u></b>	<b><u>Maximum number of applications</u></b>	<b><u>Spray Buffer Zones (metres) Required for the Protection of:</u></b>	
		<b><u>Aquatic habitats</u></b>	<b><u>Terrestrial habitats</u></b>
<b><u>Agricultural crop system and ground boom application method</u></b>			
Pre-seeding applications for: cranberry, filberts, hazelnut and all other crops. Established pasture and summer fallow.	<u>1</u>	<u>1</u>	<u>1</u>
Canola – Roundup Ready hybrid for seed production	<u>2</u>	<u>1</u>	<u>1</u>
Filberts or hazelnut, sugar beets (glyphosate tolerant varieties)	<u>4</u>	<u>1</u>	<u>1</u>
Corn (glyphosate non-tolerant varieties including grain, silage and ornamental types), sugar beet (glyphosate non-tolerant varieties), strawberry, blueberry highbush and lowbush, walnut, chestnut, Japanese heartnut, Turf grass (prior to establishment or renovation)	<u>2</u>	<u>1</u>	<u>2</u>
Wheat, barley, oats, soybean (glyphosate non-tolerant varieties), corn-sweet (glyphosate tolerant varieties), canola (glyphosate tolerant varieties), peas, dry beans, flax (including low linolenic acid varieties), lentils, corn (glyphosate tolerant varieties), forage grasses and legume including seed production	<u>3</u>	<u>1</u>	<u>2</u>
Canola (glyphosate tolerant varieties), soybean (glyphosate tolerant varieties)	<u>4</u>	<u>1</u>	<u>2</u>
Apple, apricot, cherry (sweet/sour), peaches, pears, plums, grapes	<u>3</u>	<u>1</u>	<u>3</u>
<b><u>Agricultural crop system and airblast application method (including mist blower)</u></b>			
Pasture	<u>1</u>	<u>20</u>	<u>30</u>
Turfgrass (prior to establishment of renovation)	<u>2</u>	<u>25</u>	<u>35</u>
<b><u>Forest plant system and ground boom application method</u></b>			
Forest and woodlands > 500 ha Site Preparation	<u>2</u>	<u>1</u>	<u>NR</u>
<b><u>Forest plant system and airblast application method (including mist blower)</u></b>			

<b><u>Agricultural, forestry and non-cropland systems</u></b>	<b><u>Maximum number of applications</u></b>	<b><u>Spray Buffer Zones (metres) Required for the</u></b>	
		<b><u>Aquatic habitats</u></b>	<b><u>Terrestrial habitats</u></b>
Forest and woodlands > 500 ha Site Preparation	<u>2</u>	<u>1</u>	NR
<b><u>Non-cropland system and ground boom application method</u></b>			
Non-crop land and industrial uses: Industrial and rights of way areas, recreational and public areas	<u>3</u>	<u>1</u>	<u>3*</u>
<b><u>Non-cropland system and airblast application method (including mist blower)</u></b>			
Non-crop land and industrial uses: Industrial and rights of way areas, recreational and public areas	<u>3</u>	<u>1</u>	<u>30*</u>
<b><u>Non-cropland system and aerial application method</u></b>			
Non-crop land and industrial uses:	Fixed Wing	<u>3</u>	<u>100</u>

<b><u>Agricultural, forestry and non-cropland systems</u></b>		<b><u>Maximum number of applications</u></b>	<b><u>Spray Buffer Zones (metres) Required for the</u></b>	
			<b><u>Aquatic habitats</u></b>	<b><u>Terrestrial habitats</u></b>
rights-of-way areas only	Rotary Wing	3	60	NR

\*Spray buffer zones for the protection of terrestrial habitats are not required for forestry uses or for use on rights-of-way including railroad ballast, rail and hydro rights-of-way, utility easements and roads.

**NR** = Not Required

When tank mixes are permitted, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

## **6.0 WEEDS CONTROLLED**

### **6.1 ANNUAL WEEDS**

#### **ANNUAL GRASSES**

Barnyard Grass *Echinochloa crusgalli*  
 Blue Grass (annual) *Poa annua*  
 Crab Grass (smooth) *Digitaria ischaemum*  
 Crab Grass (large) *Digitaria sanguinalis*  
 Downy Brome *Bromus tectorum*  
 Giant Foxtail *Setaria faberii*  
 Green Foxtail *Setaria viridis*

Persian Darnel *Lolium persicum*  
 Volunteer Barley *Hordeum* spp.  
 Volunteer Corn *Zea mays*  
 Volunteer Wheat *Triticum* spp.  
 Wild Oats *Avena fatua*  
 Yellow Foxtail *Setaria glauca*

#### **OTHER**

Dodder *Cuscuta* spp.

#### **ANNUAL BROADLEAF WEEDS**

Chickweed *Stellaria media*  
 Cleavers *Galium aparine*  
 Cocklebur *Xanthium strumarium*  
 Corn Spurry *Spergula arvensis*  
 Cow Cockle *Saponaria vaccaria*  
 Eastern Black Flowering Nightshade *Solanum ptycanthum*  
 Fleabane (Canada) *Erigeron canadensis*  
 Flixweed *Descurania sophia*  
 Green Smartweed *Polygonum scabrum*  
 Hempnettle *Galeopsis tetrahit*  
 Kochia *Kochia scoparia*  
 Lady's-Thumb *Polygonum persicaria*  
 Lamb's-quarters (common) *Chenopodium album*  
 Narrow-leaved Hawk's Beard *Crepis tectorum*  
 Narrow-leaved Vetch *Vicia angustifolia*  
 Night-flowering Catchfly *Silene noctiflora*

Pennsylvania Smartweed *Polygonum pennsylvanicum*  
 Prickly Lettuce *Lactuca scariola*  
 Ragweed (common) *Ambrosia artemisiifolia*  
 Redroot Pigweed *Amaranthus retroflexus*  
 Russian Thistle *Salsola pestifer*  
 Shepherd's Purse *Capsella bursa-pastoris*  
 Smooth Pigweed *Amaranthus hybridus*  
 Sowthistle (annual) *Sonchus oleraceus*  
 Stinkweed *Thlaspi arvense*  
 Velvetleaf *Abutilon theophrasti*  
 Volunteer Canola *Brassica* spp.  
 Volunteer Flax *Linum* spp.  
 Wild Buckwheat *Polygonum convolvulus*  
 Wild Mustard *Sinapsis arvensis*  
 Wild Tomato *Solanum triflorum*

### **6.2 PERENNIAL WEEDS**

## PERENNIAL GRASSES/SEDGES

Blue Grass (Canada) *Poa compressa*  
Blue Grass (Kentucky) *Poa pratensis*  
Brome Grass (smooth) *Bromus inermis*  
Cattail (common) *Typha latifolia*

Foxtail Barley *Hordeum jubatum*  
Quackgrass *Agropyron repens*  
Yellow Nutsedge *Cyperus esculentus*

## PERENNIAL BROADLEAVED WEEDS

Alfalfa *Medicago* spp.  
Cottontop *Eriophorum chamissionis*  
Curled Dock *Rumex crispus*  
Dandelion *Taraxacum officinale*  
Field Bindweed *Convolvulus arvensis*  
Hemp Dogbane *Apocynum cannabinum*  
Hoary Cress *Cardaria draba*  
Knotweed (Japanese) *Polygonum cuspidatum*

Milkweed (common) *Asclepias syriaca*  
Poison Ivy *Rhus radicans*  
Purple Loosestrife *Lythrum salicaria*  
Sow Thistle (perennial) *Sonchus arvensis*  
Thistle (Canada) *Cirsium arvense*  
Toad Flax *Linaria vulgaris*  
Wormwood (Absinth) *Artemisia absinthium*

## 6.3 WOODY BRUSH AND TREES

Alder *Alnus* spp.  
Birch *Betula* spp.  
Broadleaved meadowsweet *Spiraea latifolia*  
Canadian rhododendron *Rhododendron canadense*  
Cedar *Thuja* spp.  
Cherry *Prunus* spp.  
Douglas Fir *Pseudotsuga* spp.  
Hemlock *Tsuga* spp.  
Maple *Acer* spp.

Mountain-fly honeysuckle *Lornica villosa*  
Pine *Pinus* spp.  
Poplar *Populus* spp.  
Raspberry/Salmonberry *Rubus* spp.  
Sheep laurel *Kalmia angustifolia*  
Snowberry (Western) *Symphoricarpos occidentalis*  
Sweet fern *Comptonia peregrina*  
Willow *Salix* spp.  
Withrod *Viburnum cassinoides*

## CROPLAND USES

**ALWAYS READ PRECAUTIONS, GENERAL INFORMATION and MIXING and APPLICATION PRECAUTIONS (sections 3.0, 4.0 and 5.0) PRIOR TO SPECIFIC APPLICATION INFORMATION IN ANY LABEL SECTION.**

### 7.0 ANNUAL WEED CONTROL

The following tables provide rates and specific application instructions for control of the annual weeds listed.

**7.1  
HERBICIDE**

**ANNUAL WEED CONTROL WITH BLADE GLYPHOSATE 480 LIQUID**

<b>RATE L/ha</b>	<b>GROWTH STAGE</b>	<b>WEEDS CONTROLLED</b>	<b>COMMENTS (Apply in 50 - 100 L/ha water)</b>
0.56	Weeds up to 8 cm in height	Wild oats, green foxtail, Volunteer barley, volunteer Wheat  Volunteer canola (rapeseed), wild mustard, lady's-thumb, stinkweed	For wild oats apply at 1 - 3 leaf stage  Add 350 mL of a surfactant registered for use such as Agral® 90, Ag Surf®, or Companion™.  For heavy wild oat infestations use 0.75 L/ha rate.
0.75	Weeds 8 cm to 15 cm in Height	All annual grasses listed above  All annual broad leaved weeds listed above plus flixweed* and kochia*	Add 350 mL of surfactant registered for use as listed above.  *Suppression only. Refer to higher rates of this table or tank mix table (section 7.2) for control options.
0.94-1.4	Weeds up to 15 cm in height	All annual grasses listed above plus downey brome, giant foxtail, and persian darnel  All annual broadleaved weeds listed above plus lamb's quarters, redroot pigweed, hempnettle, flixweed, russian thistle, volunteer flax, common ragweed*, canada fleabane*, wild buckwheat**, narrow-leaved hawk's beard***	No surfactant required  For tankmix weed control options see section 7.2  *DO NOT use these rates on plants greater than 8 cm in height  ** For 3 - 4 leaf stage use 1.4 L/ha rate  *** For weeds 8 cm to 15 cm in height use 1.4 L/ha rate
1.69	Weeds up to 15 cm in height	All annual grasses listed above plus crab grass and annual blue grass.  All annual broadleaved weeds listed above plus kochia, prickly lettuce, shepherd's purse, annual sow thistle, and narrow-leaved vetch	For additional annual broadleaved weed control options, refer to tank mix table (section 7.2).
2.63	Weeds over 15 cm in height	All annual grasses and broadleaved weeds listed above	For additional annual broad leaved weed control options refer to tank mix table (section 7.2).

Agral® is a registered trademark of Imperial Chemical Industries PLC, England.

Ag Surf® is a registered trademark of Interprovincial Co-operatives Ltd.  
Companion™ is a trademark of Dow AgroSciences LLC.

**NOTE:** For spot treatment, 0.56 - 2.63 L/ha is approximately equivalent to 6 - 26 mL/100 m<sup>2</sup>, respectively.

## 7.2 ANNUAL WEED CONTROL WITH BLADE GLYPHOSATE 480 LIQUID HERBICIDE TANK MIXTURES

FOR SUMMER FALLOW & MINIMUM TILLAGE SYSTEMS			
TANK MIXTURES	RATE L/ha	WEEDS CONTROLLED	COMMENTS (Apply in 50-100L/ha water; add 350mL/ha of surfactant - see list in section 7.3)
Blade Glyphosate 480 Liquid Herbicide + Banvel®	0.56 -0.75 + 0.29	Volunteer cereal, wild oats, green foxtail, Volunteer canola (rapeseed), wild mustard, flixweed*, lamb's quarters, lady's thumb, stinkweed, kochia, russian thistle, cow cockle, redroot pigweed**, wild buckwheat**.	This tank mix is registered for summer fallow use only. Weeds should be less than 15 cm tall and actively growing for best results.  Use higher rate if weeds are beyond 8 cm in height *BLADE GLYPHOSATE 480 LIQUID HERBICIDE applied at 0.75 L/ha rate only. * * Suppression only. See other tank mixtures for control options.
Blade Glyphosate 480 Liquid Herbicide + Pardner®	0.56 - 0.75 + 1.25	Volunteer cereals, green foxtail,  Volunteer canola (rapeseed), wild mustard, lady's thumb, stinkweed, wild buckwheat*  Redroot pigweed**, kochia**, wild oats**	This tank mix is registered <b>only for use in summer fallow, and prior to wheat, oats and barley in minimum tillage systems.</b> Weeds should be less than 15 cm tall and actively growing for best results.  Use higher rate if weeds are beyond 8 cm in height  * Use BLADE GLYPHOSATE 480 LIQUID HERBICIDE at 0.75 L/ha rate only for wild buckwheat control.  **0.75 L rate, suppression only. See other tank mixtures for control options.
Blade Glyphosate 480 Liquid Herbicide + 2,4-D#	0.56 - 0.75 + 1.2	Volunteer cereals, wild oats* and green foxtail*  Volunteer canola (rapeseed), wild mustard, flixweed, redroot pigweed, lady's thumb, stinkweed,	This tank mix is registered for <b>summer fallow use only.</b> Weeds should be less than 15 cm tall and actively growing for best results. Use higher rate if weeds are beyond 8 cm in height *Use BLADE GLYPHOSATE 480 LIQUID HERBICIDE at 0.75 L/ha

<b>FOR SUMMER FALLOW &amp; MINIMUM TILLAGE SYSTEMS</b>			
<b>TANK MIXTURES</b>	<b>RATE L/ha</b>	<b>WEEDS CONTROLLED"</b>	<b>COMMENTS (Apply in 50-100L/ha water; add 350mL/ha of surfactant - see list in section 7.3)</b>
		kochia.  lamb's quarters**, russian thistle**	rate only for wild oat and green foxtail control. * * Suppression only. See other tank mixtures for control options.

\*\*For foxtail barley suppression, refer to "Annual Weed Control" table (Section 7.1)

# 0.56 kg ai/ha of 2,4-D. Adjust rates accordingly for other 2,4-D formulations. Use only low volatile ester or amine formulations of 2,4-D.

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® Pardner is a registered trademark of Bayer

### **7.3 ADDITION OF SURFACTANT**

All BLADE GLYPHOSATE 480 LIQUID HERBICIDE tank mixtures for annual weed control require the addition of a surfactant registered for use such as Agral 90, Ag Surf, or Companion. Surfactant should be added at a rate of 350 mL per hectare, in 50-100 L of clean water.

### **7.4 ADDITIONAL IMPORTANT INFORMATION FOR ANNUAL WEED CONTROL**

Allow at least 1 day after treatment before tillage

Annual weeds generally will continue to germinate from seed throughout the growing season. Repeat treatments may be necessary to control later germinating weeds, in some situations.

For additional information and precautions, refer to the "General Information" and "Mixing and Application" sections of this label (4.0 and 5.0, respectively).

### **8.0 PERENNIAL WEED CONTROL**

ALWAYS READ PRECAUTIONS, GENERAL INFORMATION and MIXING and APPLICATION SECTIONS (3.0, 4.0 AND 5.0) PRIOR TO SPECIFIC APPLICATION INFORMATION IN ANY LABEL SECTION.

When applied as recommended under the conditions described, this product will control the perennial weeds listed in the following table

**8.1 PERENNIAL WEED CONTROL WITH BLADE GLYPHOSATE 480 LIQUID HERBICIDE**

WEED	APPLICATION			COMMENTS
	GROWTH STAGE	RATE (L/ha)	WATER VOLUME (L/ha)	
<b>Quackgrass</b> (control, light to moderate infestations)	3 to 4 green leaves or more	1.88	50 - 300	Apply in clean water using flat fan nozzles. Allow 3 or more days after treatment before tillage. Refer to "Quackgrass" notes in section 8.2.1 for more information.  For higher water volumes (i.e. 150 - 300 L/ha) an approved surfactant must be added at 0.5 liters per 100 liters of clean water (0.5% v/v). Refer to list in section 8.2.2. See also below.
<b>Quackgrass</b> (long term control, heavy infestations, high water volumes)	3 to 4 green leaves or more	1.88 - 5.25	50 - 300	Allow 3 or more days after treatment before tillage. Rates higher than 1.88 L/ha will provide more consistent, longer term control, especially with heavier infestations and/or higher water volumes (i.e. 150-300 L/ha). Refer to "Quackgrass" notes in section 8.2.1 for more information.
Canada Thistle	rosette stage (summer-fallow)	1.88	50 - 100	Apply in clean water using flat fan nozzles. Allow 10 or more days after treatment before tillage. Refer to "Canada Thistle" notes in section 8.2.3 for more information.
Canada Thistle	bud stage or beyond	3.56 - 5.25	100 - 300	Allow 5 or more days after treatment before tillage.
Field Bindweed	full bloom or beyond	5.25 - 9	100 - 300	Allow 7 or more days after treatment before tillage.
Common Milkweed*	bud to full bloom (preharvest)	1.88	50 - 100	See preharvest application section, 9.9 Allow 7 or more days after treatment before tillage. . Reduced control may occur after full bloom.
	bud to full bloom	9	100 - 300	. Milkweed may not all be in the correct stage, therefore, repeat treatments may be required.
Toadflax	Vegetative Stage (summer-	1.88	50 -100	Apply in clean water using flat fan nozzles Allow 7 or more days after treatment

WEED	APPLICATION			COMMENTS
	GROWTH STAGE	RATE (L/ha)	WATER VOLUME (L/ha)	
	fallow) Bud to Full Bloom (preharvest)			before tillage in summer fallow For more information, see summer fallow control (section 8.2.4), or preharvest control (section 9.9)
Alfalfa	Early bud to full bloom stage. Fall applications only	2.8 - 3.75	50 - 300	Allow 5 or more days after treatment before tillage. Use the higher rates when alfalfa populations are high or when heavy grass infestations are also present.  For spring applications and control in minimum tillage systems using a 2,4-D tank mix, see Section 8.2.6
Dandelion	< 15 cm	1.88	50 - 100	Allow 3 or more days after treatment before tillage for all rates.
	> 15 cm	2.78 - 3.75	50 - 300	Use the higher rate when infestations are heavy.
	Rosette to full bloom (preharvest)	1.88	50 - 100	Refer to "Dandelion" notes in Section 8.2.5 for more information.  Allow 7 or more days after treatment before tillage. For more information, see preharvest control section (9.9)
Foxtail barley	Seedling to heading	1.88 - 3.75	50 - 100	Allow a minimum of 1 day after treatment before tillage or seeding. Use higher rates for larger, more established plants, heavy infestations or if plants are stressed
Other Perennials (see listing section 6.2).	Early heading or early bud stage	5.25 - 9	100 - 300	Allow 7 or more days after application before tillage.

**\*NOTE:** For spot treatment, mix 90 mL of product in 5L clean water per 100 m<sup>2</sup>. (1.88 - 9 L/ha is approximately equivalent to 19 - 90 mL/100 m<sup>2</sup>, respectively).

## 8.2 SPECIAL NOTES FOR PERENNIAL WEED CONTROL

### 8.2.1 QUACKGRASS

For **season-long control on fall tilled ground**: Apply 1.88 L/ha of this product in spring prior to seeding. Apply in 50 to 100 L/ha of clean water as described in the preceding table. Delay application until the majority of quackgrass plants have 4-5 green leaves. This stage usually occurs 1 to 4 weeks later on fall tilled ground than on undisturbed ground. Reduced control may result on ground tilled deeper than 15 cm.

**NOTE:**

This treatment will provide season-long control of quackgrass on fall tilled ground. Reduced control will be experienced versus this product on non-fall tilled ground. Repeat treatments may be necessary. Applications on forages should be followed by tillage 3 days or later and should be made when good growing conditions exist.

If a frost has occurred, wait several days to determine if the quackgrass has recovered. Quackgrass can be treated after a mild frost provided there are 3 to 4 green leaves actively growing at the time of application. Do not apply after the first damaging frost in the fall.

**8.2.2 SURFACTANTS**

The following is a list of approved surfactants for use with BLADE GLYPHOSATE 480 LIQUID HERBICIDE for control of quackgrass: Agral 90 Ag Surf Companion

Always refer to surfactant label for specific instructions regarding use of that product.

Dow-Elanco Canada is a registered user.

**8.2.3 CANADA THISTLE**

**Control of Canada Thistle at the rosette stage:** To ensure the proper timing of application the following steps must be followed:

1. Conduct summer fallow tillage as usual and perform the last tillage operation between July 15th and August 1.
2. Allow the thistles to regrow for a minimum of 5 weeks until they are a minimum of 15cm in diameter and in the rosette stage of growth.

**NOTE: Canada thistle can be treated after a mild frost** provided the leaves are still green and actively growing at the time of application. Do not apply after the first damaging frost in the fall.

**BLADE GLYPHOSATE 480 LIQUID HERBICIDE plus Banvel Tank Mixtures**

For control of Canada thistle (and perennial sow thistle) in summer fallow or in post-harvest stubble, apply 1.28 L/ha BLADE GLYPHOSATE 480 LIQUID HERBICIDE plus 1.25 L/ha Banvel in 100 - 200 L/ha of clean water. In addition, add 350 mL/ha of a non-ionic surfactant registered for use with this product, such as Agral 90, Ag Surf, or Companion.

For best results in summer fallow, cultivate in the spring and apply when the majority of thistles are 15 cm to 25 cm tall and before the bud stage. Cultivate 3 weeks after application.

In post harvest stubble, apply this tank mixture to actively growing thistles at least 2 weeks prior to a killing frost.

**NOTE:**

Grow only cereals, canola (including rapeseed), soybeans, field corn, sweet corn, or white beans after application of this tank mixture.

If application is made after September 1st, or if soil moisture levels are extremely low after application,

crop injury may occur in the spring following application.

#### **8.2.4 TOADFLAX**

##### **Control of Toadflax in a Summer fallow Vegetative Stage**

To ensure the proper timing of application, the following steps must be followed:

Conduct summer fallow tillage as usual and perform the last tillage operation between July 10 – 21.

Allow toadflax to regrow for a minimum of 4-5 weeks until they are minimum of 15 cm tall and at a lush green vegetative stage.

Note: Toadflax can be treated after a mild frost provided the leaves are still green and actively growing at the time of application. Do not apply after the first damaging frost.

#### **8.2.5 DANDELION**

Applications should be made up to and including bloom for best results. Follow-up control measures should be used to manage new dandelions germinating from seed to maintain control throughout the season.

#### **8.2.6 ALFALFA CONTROL WITH 2,4-D TANK MIX:**

The addition of 2,4-D may improve alfalfa control in situations where control may be more difficult to obtain, such as in minimum tillage systems where populations are heavy, and with spring applications.

For fall control of established stands of alfalfa, apply 1.88 - 3.75 L/ha BLADE GLYPHOSATE 480 LIQUID HERBICIDE and 1.2 - 2.4

L/ha of any 500 g/L 2,4-D amine or low volatile ester formulation in 100-200 L water/ha. (Adjust product rates accordingly for other 2,4-D formulations).

For spring applications, use only the low rate of 2,4-D (i.e. 1.2 L/ha) and 1.88 - 3.75 L/ha Glyphosate 480. Only cereal crops not underseeded to legumes may be planted following spring applications of this tank mix, and a 14 day interval between application and planting is required.

Use the higher BLADE GLYPHOSATE 480 LIQUID HERBICIDE rates when perennial grasses are prevalent.

#### **8.2.7 ALL PERENNIAL WEEDS**

**Weed Stages:** Weeds must be at the proper stage for effective control. Refer to "Perennial Weed Control with BLADE GLYPHOSATE 480 LIQUID HERBICIDE " (8.1).

**Nozzle Type:** For best results with conventional boom equipment apply this product with 50 to 300 L/ha of clean water using flat fan nozzles and no more pressure than 275 kPa.

**Rhizome Dormancy:** Reduced control may result if rhizomes have become dormant. Dormancy may occur if soil fertility is low and/or the land has not been tilled for several years.

**Mowing Effects:** Mowing prior to application will reduce effectiveness unless weeds are allowed to regrow to the proper stage before application.

**Tillage Effects:** Fall or spring tillage prior to spring applications and tillage between harvesting and fall applications will reduce the effectiveness on perennial weeds. Follow-up tillage after application should be delayed 5 -7 days for best results (see Weed Control Table for specific tillage interval for each weed).

**Rainfall Effects:** Heavy rainfall immediately after application may wash the chemical off the foliage and a repeat treatment may be required. Do not apply if rainfall is forecast for the time of application.

**Regrowth from Germinating Seeds:** This product only controls emerged plants. Repeat treatments or other weed control measures may be required to control weeds regenerating from seeds or other underground parts.

**Frost Effects:** Heavy frosts prior to application may reduce control. Do not apply after the first damaging frost in the fall.

## 9.0 CROPLAND SITUATIONS

The restricted entry interval is 12 hours after application for all agricultural uses.

**ALWAYS READ PRECAUTIONS, GENERAL INFORMATION and MIXING and APPLICATION SECTIONS (3.0, 4.0 and 5.0) PRIOR TO SPECIFIC APPLICATION INFORMATION IN ANY LABEL SECTION.**

This product can be applied as a broadcast spray or spot treatment prior to planting all crops, post harvest to annual crops, preharvest in wheat, barley, oats, canola (rapeseed), flax (including low linolenic acid varieties), lentils, peas, soybeans, dry beans and forages, and in summer fallow. It can also be applied as a directed spray in orchards, vineyards, blueberries and strawberry, and using selective equipment in soy and dry beans, orchards, vineyards, cranberries and strawberry (refer to specific sections below for more information). **For specific instructions on weed control in the following cropping situations, always refer to the Annual and Perennial Weed Control sections (7.0 and 8.0) for more information.**

### 9.1 PRIOR TO PLANTING - ALL CROPS

This product may be applied prior to planting all crops for control of emerged weeds listed on this label. Ensure weeds are at the desired stage at the time of application. This product does not provide pre-emergent weed control and newly germinating weeds may be a problem in the crop. APPLY BEFORE SEEDING OR TRANSPLANTING.

### 9.2 POST HARVEST STUBBLE TREATMENT

This product may be applied in the fall as a postharvest stubble treatment for control of perennial weeds such as quackgrass and Canada thistle. Allow weeds to regrow to the desired stage (20-25 cm tall for quackgrass and Canada thistle) before application and ensure they have a high proportion of green coloration. Straw should be removed or evenly spread to allow for proper regrowth and spray coverage. Heavy frosts prior to application may decrease control.

### 9.3 SPOT TREATMENT (IN-CROP)

This product can be applied as an in-crop spot treatment in barley, corn, oats, soybeans, wheat, strawberry, blueberry, forage grasses and legumes including seed production. Applications should be made using the same rates and at the same growth stages as listed in the weed control tables (7.1, 8.1)

or use a 0.75% solution for annual weeds and quackgrass and a 1.5% solution for other perennial weeds (a 0.75% solution equals 0.75 litre BLADE GLYPHOSATE 480 LIQUID HERBICIDE in 100 liters of spray solution). The 0.75 or 1.5 per cent solutions should be applied to wet, but not run-off. Applications can be made using a boom sprayer, hose and handgun, or hand sprayer in accordance with instructions in the "Application Equipment" section (5.2).

### 9.3.1 GRAZING RESTRICTIONS

Applications can be made up to heading of small grains, initial pod set on soy and dry beans, silking of corn and emergence of seed heads. The crop in the treated area will be killed. Take care to avoid drift for the same reason. **DO NOT APPLY IF CROP GROWTH HAS ADVANCED BEYOND SEED SET. ALLOW 3 TO 5 DAYS FOR BLADE GLYPHOSATE 480 LIQUID HERBICIDE TO TRANSLOCATE INTO ALL PLANT PARTS BEFORE GRAZING OR HARVESTING TREATED AREAS IN FORAGES.**

### 9.4 SUMMER FALLOW TREATMENT

This product, or labeled tank mixtures, may be applied in summer fallow to control weeds listed on this label. Ensure weeds are at the desired growth stage and actively growing at application for best results. Reduced control may result if weeds are drought stressed. Weeds will continue to germinate from seed throughout the growing season. Repeat treatments may be necessary to control later germinating weeds.

### 9.5 MINIMUM AND ZERO TILLAGE CROPPING SYSTEMS (ALL FIELD CROPS, INCLUDING CEREALS, OILSEEDS, PULSES, FORAGES, CORN AND POTATOES)

This product may be applied prior to seeding or after seeding, but before crop emergence for control of emerged weeds in minimum and zero tillage cropping systems for all field crops. Applications made too far in advance of seeding may allow weeds to emerge between application and crop emergence, as this product does not provide residual weed control.

#### Minimum and Zero Tillage Tank Mixtures

**9.5.1 BLADE GLYPHOSATE 480 LIQUID HERBICIDE plus bromoxynil (Pardner)** can be applied prior to seeding or after seeding, but before crop emergence in wheat, barley and oats. Refer to "Annual Weed Control with BLADE GLYPHOSATE 480 LIQUID HERBICIDE Tank Mixtures" table for information (section 7.2).

**9.5.2 BLADE GLYPHOSATE 480 LIQUID HERBICIDE plus Pursuit®** can be applied prior to, or after, seeding, but before crop emergence in soybeans. BLADE GLYPHOSATE 480 LIQUID HERBICIDE will control emerged weeds listed on this label when applied as directed (refer to Annual and Perennial Weed Control sections, 7.0 and 8.0). Pursuit will control weeds germinating from seed. Add the recommended rates of both products in 100 L of water/ha, following the instructions on the Pursuit herbicide label.

**ALWAYS REFER TO THE PURSUIT LABEL FOR FURTHER INFORMATION ON WEEDS CONTROLLED, APPLICATION DIRECTIONS, AND USE PRECAUTIONS. ONLY SOYBEANS, FIELD CORN, SPRING BARLEY, SPRING WHEAT AND WINTER WHEAT MAY BE PLANTED THE SEASON FOLLOWING A PURSUIT APPLICATION. WINTER WHEAT MAY BE PLANTED THE SAME YEAR AS A PURSUIT APPLICATION TO SOYBEANS, BUT NOT EARLIER THAN 120 DAYS AFTER THE APPLICATION.**

#### DO NOT APPLY AFTER CROP EMERGENCE

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### 9.6 FORAGE LEGUMES AND GRASSES

This product may be applied for control of emerged weeds prior to emergence of forage legumes and grasses. If the forages are to be under-seeded with a cover crop, this product must be applied prior to

planting the cover crop.

### **9.7 PASTURE RENOVATION**

Use this product to control or suppress existing vegetation for zero-tillage seeding of legumes into established sod for pasture renovation. Delay spraying until weed growth is at least 20 cm in height and a maximum number of seedlings or shoots have emerged. Application can be made immediately before, during or after seeding, but before crop emergence.

### **9.8 FORAGE SEED PRODUCTION**

For spot treatment control of perennial weed problems such as quackgrass and Canada thistle in seed fields, apply as directed to vegetation that is at least 20 to 25 cm in height but before emergence of seed head. The crop in the treated areas will be killed. Take care to avoid drift outside target area for the same reason.

### **9.9 PRE-HARVEST CONTROL OF QUACKGRASS, CANADA THISTLE, MILKWEED, TOADFLAX AND DANDELION; SEASON-LONG CONTROL OF PERENNIAL SOW THISTLE, AND HARVEST MANAGEMENT**

For control of quackgrass, Canada thistle, common milkweed, toadflax and dandelion; and season-long control of perennial sow thistle, BLADE GLYPHOSATE 480 LIQUID HERBICIDE can be applied prior to harvest of wheat, barley (including malting barley), oats, canola (rapeseed), flax (including low linolenic acid varieties), lentils, peas, dry beans, soybeans and forages. DO NOT apply to crops if grown for seed production.

This treatment may also provide harvest management benefits, by drying down crop and weed vegetative growth, for example, where late flushes of annual weeds, green vegetative crop growth, or late tillering may interfere with harvest operations. EXTREMELY COOL, WET AND/OR CLOUDY WEATHER CONDITIONS BETWEEN THE TIME OF APPLICATION AND THE ANTICIPATED HARVEST DATE MAY SLOW DOWN ACTIVITY OF THIS PRODUCT, THEREBY DELAYING CROP DRYDOWN AND HARVEST DATE.

BLADE GLYPHOSATE 480 LIQUID HERBICIDE should be applied pre-harvest at 1.88 L/ha in 50 to 100 L/ha of clean water, by ground application only. Apply only when the crop has 30% or less grain moisture content. This stage typically occurs 7 to 14 days before harvest. For forage crops, apply this product at 1.88 - 3.75 L/ha 3-7 days prior to the last cut before rotation or forage renovation. Consult the table "Guidelines for Timing of Preharvest Applications" for visual indicators of this stage in each crop. For the best weed control results quackgrass should be actively growing and have at least 4 to 5 green leaves. Canada thistle and perennial sow thistle should be actively growing and at or beyond the bud stage for best results. Common milkweed should be at the bud to bloom stage and actively growing for best results. Applications for weed control (not for harvest management) must be made at the correct stage of both weed and crop growth.

Apply only during the period 7-14 days (or 3-7 days for forage applications) before harvest to ensure best weed control and to maximize harvest management benefits. Earlier application may reduce crop yield and/or quality, and may lead to excess glyphosate residues in the crop.

**DO NOT** apply by air.

### 9.9.1 GUIDELINES FOR TIMING OF PREHARVEST APPLICATIONS

CROP(S)	PERCENT GRAIN MOISTURE	VISUAL SYMPTOMS
WHEAT/BARLEY/OATS	Less than 30	Hard dough stage; a thumbnail impression remains on seed.
CANOLA	Less than 30	Pods are green to yellow; most seeds are yellow to brown.
FLAX (INCLUDING LOW LINOLENIC ACID VARIETIES)	Less than 30	Majority (75%-80%) of bolls are brown.
PEAS	Less than 30	Majority (75%-80%) of pods are brown.
LENTILS	Less than 30	Lowermost pods (bottom 15%) are brown and seeds rattle.
DRY BEANS	Less than 30	Stems are green to brown in colour; pods are mature (yellow to brown in colour); 80%-90% leaf drop (original leaves).
SOYBEANS	Less than 30	Stems are green to brown in colour; pod tissue is dry and brown in appearance; 80%-90% leaf drop.
FORAGES	Not applicable	Normal stage for forage harvesting.

### 9.10 TREE PLANTINGS

#### Shelterbelts and Nursery Stock (Woody Ornamentals)

This product may be used to control listed annual or perennial weeds prior to planting, or as a post directed spray in established nurseries or shelterbelts of the following species:

#### Deciduous

Ash - Fraxinus spp.  
 Caragana - Caragan spp.  
 Cherry - Prunus spp.  
 Elm - Ulmus spp.  
 Lilac - Syringa spp.  
 Maple - Acer spp.  
 Mountain Ash - Sorbus spp.  
 Poplar - Populus spp.  
 Russian Olive - Elaeagnus spp  
 Willow - Salix spp.

#### Coniferous

Fir - Abies spp.  
 Juniper - Juniper spp.  
 Pine - Pinus spp.  
 Spruce - Picea spp.  
 Yew - Taxus spp.

**NOTE:** This product is not recommended for use as an over-the-top broadcast spray in forest tree nurseries or in Christmas tree plantations. Application in such sites should be limited to directed sprays.

DO NOT treat Christmas tree plantations in the year of anticipated harvest.

### 9.11 TREE, VINE and BERRY CROPS

This product is recommended for annual and perennial weed control in established vineyards or orchards, in blueberry, cranberry and strawberry, or for site preparation prior to transplanting tree and vine crops. Applications may be made with boom equipment, shielded sprayers, hand-held and high volume orchards guns, or with wiper applicator equipment (orchards, vineyards, cranberry and strawberry only). See the "Equipment Information" section of this label (5.2) and the following table for specific information on the use of equipment.

Repeat treatments may be necessary to control weeds originating from underground parts of untreated weeds or from seeds. This product does not provide residual or pre-emergent weed control. For subsequent weed control, follow a program using residual herbicides or use repeated applications of this product. Do not apply more than 26 liters of this product per hectare per year.

**EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE SOLUTION, SPRAY, DRIFT, OR MIST WITH FOLIAGE OR GREEN BARK OF TRUNK, BRANCHES, SUCKERS, FRUIT, CANES OF BLUEBERRY BUSHES, OR OTHER PARTS OF TREES OR VINES. CONTACT OF THIS PRODUCT WITH OTHER THAN MATURED BROWN BARK CAN RESULT IN SERIOUS CROP DAMAGE.**

Reduced control may result when applications are made to annual or perennial weeds that have been moved, grazed or cut and have not been allowed to regrow to the recommended stage for treatment.

#### WEED CONTROL IN TREE, VINE and BERRY CROPS

Crop	Rate (L/ha)	Pre-Harvest Interval (days)	Max. Appl. per Yr.	Weeds Controlled	Comments (Refer to sections 7.1 and 8.1 for specific rates for weed control)
Apples Apricot Cherry (Sweet/sour) Peaches Pears Plums	1.69 - 9	30	3	Annual and perennial weeds	
Apples Grapes	Tank Mix 1.69 - 9 + Simazine 2.0 - 4.5 kg ai/ha	-	1	Annual and perennial weeds	Will provide season-long pre-emergent control  Do not apply to coarse, sandy or gravelly soil  Use according to the more restrictive label direction for each product in the mix  DO NOT apply to orchards or vineyards that have been established less than 1 or 3 years, respectively

<b>Crop</b>	<b>Rate (L/ha)</b>	<b>Pre-Harvest Interval (days)</b>	<b>Max. Appl. per Yr.</b>	<b>Weeds Controlled</b>	<b>Comments</b> (Refer to sections 7.1 and 8.1 for specific rates for weed control)
					Simazine rate is equivalent to 2.25-5.0 kg/ha Princep® Nine-T®, or 4.0-9.0 kg/ha Simadex®
Grapes	1.69 - 9	14	3	Annual and perennial weeds	Remove all sucker growth from the spray zone before spraying, except for the Concord variety of grape. Suckering should be conducted within 2 weeks prior to application. Do not apply to vines which have been established less than 3 years
Highbush (cultivated) blueberry	2.1 - 4.2	30	1	Quack-grass	Use as a directed spray, with no more than 275 kPa pressure
Lowbush blueberry	0.75 - 1.5% solution (spot application)	Apply in non-bearing year only	1	Woody brush (section 6.3)	Apply as a directed spray in midsummer of the vegetative (nonbearing) year See section 9.3 for instructions on spot treatments
Filberts Hazelnut (established plantations)	1.69 - 2.63	14		Annual weeds	Use as a directed spray, with no more than 275 kPa pressure
Walnut Chestnut Japanese heartnut	1.69 - 9		2	Annual and perennial weeds	Apply late spring and fall, post-harvest but prior to a killing frost. Apply in 200-300 L water as a directed spray, using no more than 275 kPa pressure. Apply alternatively as a 1.5% wiper solution (see Wiper Applications, section 9.12)
Cranberry	15% Solution (0.75L BLADE GLYPHOSATE 480 LIQUID HERBICIDE + 4L water)	30	1	Annual and perennial weeds	Apply using wick or wiper applicators (section 9.12)
Strawberry	0.75 - 1.5% solution (spot application) 25% solution (wiper application)	30	1	Emerged perennial weeds	Apply when weeds are at a susceptible growth stage (see sections 8.1, 8.2). See section 9.3 for instructions on spot treatments. See section 9.12 for

<b>Crop</b>	<b>Rate (L/ha)</b>	<b>Pre-Harvest Interval (days)</b>	<b>Max. Appl. per Yr.</b>	<b>Weeds Controlled</b>	<b>Comments</b> (Refer to sections 7.1 and 8.1 for specific rates for weed control)
					instructions on wiper applications.
Sugar beets	0.75 - 1.5% solution (spot application)	crop MUST NOT be harvested	1	Dodder species	Apply when dodder is vigorously growing but before flowering. See section 9.3 for instructions on spot treatments.

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## 9.12 SELECTIVE EQUIPMENT

### WIPER APPLICATORS

Glyphosate is not to be applied using hand-wicking or hand-daubing methods.

This product may be applied with a wiper applicator, after dilution and thorough mixing with water, to listed weeds in soy and dry beans, grapes, orchards, cranberries and strawberry. Applications must be made before initial pod set in soy and dry beans. (It may also be used in any industrial, tree planting and non-crop site specified on this label. See sections 9.10, 10.1.)

A wiper applicator applies the herbicide solution onto weeds by rubbing the weed with an absorbent material containing the herbicide solution. Wiper applicators include either roller or wick devices which physically wipe appropriate concentrations or amounts of this product directly onto the weed. Equipment must be designed, maintained and operated to prevent the herbicide solution from contacting desirable vegetation. Performance may be improved by reducing speed in areas of heavy weed infestations to insure adequate wiper saturation. Best results may be obtained if 2 applications are made in opposite directions.

**AVOID CONTACT WITH DESIRABLE VEGETATION.** Contact of the herbicide solution with desirable vegetation may result in damage or destruction. Applicators used above desired vegetation should be adjusted so that wiper contact point is at least 5 cm above the desirable vegetation. Droplets or foam of the herbicide solution settling on desirable vegetation may result in discoloration, stunting or destruction. Applications should be made when the weeds are a minimum of 15 cm above the desirable vegetation. Best results may be obtained when more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. This may occur in dense clumps, severe infestations, or when the height of the weeds varies so that not all weeds are contacted. In these instances, repeat treatments may be necessary. See the "Weed Control" tables in this label (sections 7.1 and 8.1) for recommended stage of growth for specific weeds.

### NOTES

- Maintain equipment in good operating condition. Avoid leakage or dripping onto desirable vegetation.
- Adjust height of applicator to insure proper contact with weeds.
- Keep wiping surfaces clean.

- Maintain recommended roller RPM on roller applicators while in use.
- Keep wiper material at proper degree of saturation with herbicide solution.
- DO NOT use wiper equipment when weeds are wet.
- DO NOT operate equipment at ground speeds below 4 and greater than 10 km/h.
- Weed control may be affected by speed of application equipment. As weed density increases, reduce equipment ground speed to insure good coverage of weeds.
- Be aware that on sloping ground the herbicide solution may migrate, causing dripping on the lower end and drying on the upper end of the wiper applicator.
- Variation in equipment design may affect weed control. With wiper applicators, the wiping material and its orientation must allow delivery of sufficient quantities of the recommended herbicide solution directly to the weed.
- Care must be taken with all types of wipers to insure that the absorbent material does not become over-saturated, causing the herbicide to drip onto desirable vegetation.
- With all equipment, drain and clean wiper parts immediately after using this product, by thoroughly flushing with water.

**For Roller Applicators**-- Mix 0.38 to 0.75 L of this product in 10 L water to prepare a 3.8 to 7.5% solution. Roller speed should be maintained at 50 to 150 rpm.

**For Wick or other Wiper Applicators** - Mix 1 liter of this product in 3 liters of water to prepare a 25% solution.

## **10.0 NON-CROPLAND USES**

### **INDUSTRIAL, RIGHTS-OF-WAY, RECREATIONAL, AND PUBLIC AREAS**

**ALWAYS READ PRECAUTIONS, GENERAL INFORMATION and MIXING and APPLICATION SECTIONS (3.0, 4.0 and 5.0) PRIOR TO SPECIFIC APPLICATION INFORMATION IN ANY LABEL SECTION.**

This product can be used to control annual and perennial weeds and woody brush and trees listed on this label in non-crop areas such as railroad, pipeline, highway, power and telephone rights-of-way; petroleum tank farms and pumping installations; roadsides; storage areas; lumberyards; fence rows; industrial plant sites; parking areas; school yards, parks, golf courses, other public areas; airports and similar industrial or non-crop areas.

#### **NOTE:**

For all industrial, rights-of-way, recreational and public areas, repeat treatments may be necessary to

control regeneration or new growth.

When applied as recommended under the conditions described, this product will control weeds in non-cropland areas as listed in the following table.

**10.1 WEED CONTROL IN NON-CROPLAND AREAS WITH BLADE GLYPHOSATE 480 LIQUID HERBICIDE**

WEEDS	GROUND APPLICATION **			COMMENTS
	BOOM APPLICATION		HAND HELD HIGH VOLUME APPLICATION % SOLUTION	
	RATE* (L/ha)	WATER VOL.* (L/ha)		
<b>Annual grasses and broadleaves</b>	1.69-2.63	50-100	1	• Actively growing weeds.
<b>Perennial Weeds</b>				• Actively growing weeds. • Add 0.5% v/v of a recommended surfactant when using water volumes greater than 150 L (see section 8.2.2). • Higher rate for long term control and for heavy infestations. • See section 10.2.3 for instructions on purple loosestrife applications. • Summer through fall is optimum.
Quackgrass	1.88 3.56-5.25	50-300 50-300	1	
Canada Thistle (bud stage)	3.56-5.25	100-300	2	
Purple Loosestrife	4.5	300-600	0.75-1.5 (or 25% for wiper application)	
Other Perennials	5.25-9	100-300	2	
<b>Brush and Trees</b>				• Summer through early fall (see section 10.2). • Late summer through fall. • Fall is optimum.
Birch, Cherry, Poplar, Western Snowberry, Willow	2.25-4.5	100-300	1-2	
Maple, Raspberry/Salmonberry, Alder	4.5	100-300	2	
<b>Turf Renovation</b>				• Use higher end of the rate range for perennials.
Annual and perennial weeds	1.88-9.0	100-300	1-2	
<b>Roadside</b>				• Refer to "Annual Weed

WEEDS	GROUND APPLICATION **			COMMENTS
	BOOM APPLICATION		HAND HELD HIGH VOLUME APPLICATION % SOLUTION	
	RATE* (L/ha)	WATER VOL.* (L/ha)		
<b>Vegetation</b> (1-2m wide along shoulders) Annual weeds (refer to tank mix sections on product labels for specific weeds controlled)	1) 0.56 - 0.75 + 1.25 - 2.5 L DyCler® 480 or 0.56 - 0.75 + 0.30 L DyCler 480 + 1.2 L 2,4-D amine 500	25-150	-	Control" table (section 7.1) for appropriate product rate for specific weeds. • For 2,4-D amine formulations with a different guarantee, adjust the rate accordingly. • No application to standing water.
<b>Residual Control</b> Annual and perennial weeds (the simazine component of this tank mixture will provide season long control of most germinating broadleaf weeds and grasses. It may also provide postemergent activity on certain annual weeds).	1.88 - 9 + 4.0 -9.0 L Simadex Flowable	200-400		• Do not apply to coarse, sandy or gravelly soil. One application per year. • Use according to the most restrictive label directions for each product in the mixture. • For other simazine formulations registered for industrial/ noncropland areas, use equivalent rates; i.e., 2.0 - 4.5 kg simazine/ha.

\* For more information on rates, water volumes and application, refer to the "Annual and Perennial Weed Control" sections of this booklet (7.1 and 8.1 respectively).

\*\* Aerial application may be used for brush and tree control in Industrial rights-of-way only. See "Aerial Application: For industrial rights-of-way only" section (10.2.2).

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Simadex® is a registered trademark of Bayer.

## **10.2 APPLICATION INFORMATION FOR NON-CROPLAND USES**

### **Foliar Applications**

Spray coverage should be uniform and complete. Do not spray to the point of run off. Do not allow spray drift to contact desirable vegetation as severe injury or destruction may occur. For woody brush and trees, early season applications may take 30 - 45 days for symptoms to develop on target species. Late season application may be made to species that have some autumn colours provided no major leaf drop has occurred. Control will be observed the following spring.

**EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF SPRAY WITH FOLIAGE OF DESIRABLE TURFGRASSES, TREES, SHRUBS, OR OTHER DESIRABLE VEGETATION SINCE SEVERE DAMAGE OR DESTRUCTION MAY RESULT.**

This product does not provide residual weed control. For subsequent weed control, follow a label approved herbicide program. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

#### **10.2.1 GROUND APPLICATIONS: For all non-cropland uses**

For woody brush and trees, apply 2.25 to 4.5 L of this product per hectare. Use ground boom or boomless, or mist blower equipment, or apply as a 0.75 to 1.5% solution using hand-held high volume equipment. Apply as directed in the recommended volume of clean water to foliage of actively growing vegetation. Use the 4.5 L/ha rate for Maple, Alder and Willow species, as well as for hard to control perennial weed species. (\* Suppression only)

Spray coverage should be uniform and complete. Do not spray to the point of runoff. Do not allow spray drift to contact desirable vegetation as severe injury or destruction may occur. If weeds have been mowed or tilled, do not treat until regrowth has reached the recommended stages.

#### **10.2.2 AERIAL APPLICATIONS: For industrial rights-of-way only**

##### **Directions for use**

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices, or equivalent electronic positioning systems (GPS). The use of a spotter plane is recommended.

For woody brush and trees, apply 2.25 to 4.5 liters of this product per hectare. Use the 4.5 liters per hectare rate for Maple, Alder and Willow species, as well as for hard to control perennial weed species. Use the recommended rates of this herbicide in 30 to 100 liters of water per hectare. As density of vegetation increases, spray volume should be increased within the recommended range to ensure complete coverage. (\*Suppression only)

## **Use Precautions**

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the National Aerial Pesticide Application Manual, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides.

### **Product Specific Precautions**

Read and understand the entire label before opening this product. If you have questions, call Jiangsu Good Harvest-Weien Agrochemical Co., Ltd or obtain technical advice from the distributor or your provincial agricultural representative.

Application of this specific product must meet and/or conform to the following:

Volume: Apply the recommended rate in a minimum spray volume of 30 to 100 liters per hectare.

Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure.

Drift is increased under certain meteorological conditions. Do not apply during periods of dead calm, when winds are gusty or when wind speed is greater than 16 km/hour at flying height at the site of application. Do not use a boom height greater than 10 metres above canopy. Only nozzles producing coarse droplet sizes (i.e., ASAE droplet size categories with VMD > 385.2 µm) should be used for aerial application of BLADE GLYPHOSATE 480 LIQUID HERBICIDE to rights-of-way.

Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills. PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. LANDING GEAR ARE MOST SUSCEPTIBLE. The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38412 may prevent corrosion.

### **10.2.3 PURPLE LOOSESTRIFE CONTROL**

- DO NOT TREAT PLANTS OVER OPEN WATER. BLADE GLYPHOSATE 480 LIQUID HERBICIDE is not registered for direct application to bodies of water.
- Treat when plants are actively growing at or beyond the bloom stage. If using hand-held equipment, spray-to-wet.
- For wiper applications, see section 9.12
- Where feasible, remove flower heads before treatment to ensure prevention of seed set.
- For large (>1.6 ha) monocultures of loosestrife, work from the periphery inward in successive years to allow competing vegetation to invade the treated area.
- A long-term control strategy should include measures to control both established plants and seedlings. Sprayed areas should be monitored to determine the appropriate follow-up management. Early detection and treatment of second and third generation seedlings is important to prevent re-infestation of purple loosestrife. Desirable native plant communities will then have a chance to become re-established.

### **10.3 SELECTIVE APPLICATION FOR ALL NON-CROPLAND USES**

Selective equipment such as WIPER and ROLLER applicators can be used to control emerged weeds in noncrop areas and tree plantings. See "Selective Equipment" (section 9.12) for more information.

## 10.4 TURFGRASS

When applied as directed, under conditions described, this product controls most existing vegetation. Apply this product at rates specified in the "Weed Control in Non-Cropland Areas" section (10.1).

### **DO NOT DISTURB SOIL OR UNDERGROUND PLANT PARTS BEFORE TREATMENT.**

Where existing vegetation is growing in a field or unmowed situation, apply this product to actively growing weeds at the stages of growth given in the "Weeds Controlled" section of this booklet. Where existing vegetation is growing under mowed turfgrass management, apply this product after omitting at least one regular mowing to allow sufficient growth for good interception of the spray and proper translocation into underground plant parts. Tillage or renovation techniques such as vertical mowing, coring or slicing should be delayed for 7 days after application to allow proper translocation into underground plant parts. For maximum control of existing vegetation, delay establishment to determine if regrowth from escaped underground plant parts occurs. When repeat treatments are necessary, sufficient regrowth must be attained prior to application. Desirable turfgrasses may be established following the above procedures.

## 10.5 INJECTION APPLICATIONS - FOR ALL NON-CROPLAND USES

Woody vegetation may be controlled by injection application of this product. Apply using suitable equipment, which must penetrate into living tissue, at a rate of at least 0.38 mL (either undiluted or 1:1 with water) per 5cm tree diameter at breast height (DBH). The cuts should be spaced evenly around the tree and below all major branches. Application may be made at any time of year, except when cold temperatures prevent adequate penetration of injection equipment, or in the spring during periods of heavy sap flow. Control of tree species with tree diameters greater than 20 cm may not be acceptable at this rate.

Total control may not be evident for 1-2 years following treatment.

A partial list of species controlled includes:

**Alder** Alnus

spp. **Birch**

Betula Spp.

**Cedar**

Thuja spp.

**Cherry**

Prunus spp.

**Douglas Fir**

Pseudotsuga spp.

**Hemlock**

Tsuga spp.

**Maple\***

Acer spp.

**Pine**

Pinus spp.

**Poplar**

Populus spp.

**Willow**

Salix spp.

\* This treatment may only provide suppression of Big-Leaf Maple. Late fall applications will provide optimum suppression of Big-Leaf Maple

## **10.6 CUT STUMP APPLICATION**

Woody vegetation may be controlled by the application of this product to freshly cut stumps to prevent regrowth. Because the treatment uses a concentrated solution, application must be made using low-pressure equipment e.g. squirt bottle or similar device. This product must be applied immediately to the surface of the freshly cut stump i.e. within 5 minutes for optimum control at the prescribed rates. Only the cambial tissues of the cut surface should be treated. Apply the herbicide solution at a rate equivalent to at least 0.38 mL product for every 5cm DBH. Do not cover the remaining area nor any exposed roots, as this product does not penetrate bark well. This treatment may be used at any time of year, except during periods of heavy sap flow or when low temperatures prevent solution application due to freezing. A water soluble colourant may be added to the solution as a means of indicating which surfaces have been treated. Total control may not be evident until 1-2 years after treatment.

See the "Injection Applications" section (10.5) of this label for a partial list of species controlled.