HERBICIDE GROUP 9

MON 78460 Liquid Herbicide

AGRICULTURAL and INDUSTRIAL

DANGER - EYE AND SKIN IRRITANT

WATER SOLUBLE HERBICIDE FOR NON-SELECTIVE WEED CONTROL

REGISTRATION NO. 27486 PEST CONTROL PRODUCTS ACT

GUARANTEE: Glyphosate, 540 grams acid equivalent per litre, present as potassium salt.

READ THE LABEL AND ATTACHED BROCHURE BEFORE USING.

READ NOTICE BEFORE BUYING OR USING. IF NOTICE TERMS ARE NOT ACCEPTABLE, RETURN AT ONCE UNOPENED.

MONSANTO CANADA INC. 67 Scurfield Blvd.

Winnipeg, Manitoba R3Y 1G4

Notification Change

900 - One Research Road Winnipeg, MB R3T 6E3

Net Contents: 10 L

2005

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. HARMFUL IF SWALLOWED.

Causes eye irritation. DO NOT get in eyes. Severely irritating to the skin. DO NOT get on skin.

Wear a long-sleeved shirt and long pants during mixing, loading, application, clean-up and repair. In addition, wear goggles or a face shield and chemical-resistant gloves during mixing and loading, clean-up and repair.

Do not enter treated field within 12 hours of application.

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 or www.cropro.org/.

FIRST AID

IF IN EYES, IMMEDIATELY flush with plenty of clean water for at least 15 minutes. Call a physician or contact a poison control center **IMMEDIATELY**.

IF ON SKIN, **IMMEDIATELY** flush with plenty of water. Remove contaminated clothing. Wash clothing before re-use.

IF SWALLOWED, this product will cause gastro-intestinal tract irritation. **IMMEDIATELY** dilute by swallowing water or milk. Call a physician or contact a poison control center **IMMEDIATELY**.

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

TOXICOLOGICAL INFORMATION

Treat symptomatically.

ENVIRONMENTAL HAZARDS

Toxic to aquatic organisms and non-target plants. Avoid direct applications to any body of water. Do not contaminate water by disposal of waste or cleaning of equipment. Observe buffer zones specified under "Directions for Use" (i.e. see booklet)

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.

In case of an emergency involving this product, call Monsanto collect, day or night:

Accident/Spills/Medical Er	nergency	(314) 694-4000
	Or	1-800-332-3111
Or CANUT	EC	(613) 996-6666

For additional information on this or other Monsanto agricultural products, call the Monsanto Canada Custom Care Line at: 1-800-667-4944.

STORAGE

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 container for any other 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 the disposal of unused, unwanted product, contact the manufacturer and 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 BUYER – Seller's guarantee shall be limited to the terms set out on the label and, subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

NOTICE TO USER – This control product is to be used only in accordance with the directions on this label. It is an offence under the *Pest Control Products Act* to use a control product under unsafe conditions.

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GROUP 9 HERBICIDE

MON 78460 Liquid Herbicide

AGRICULTURAL and INDUSTRIAL

DANGER - EYE AND SKIN IRRITANT

REGISTRATION NO. 27486 PEST CONTROL PRODUCTS ACT

GUARANTEE: Glyphosate, 540 grams acid equivalent per litre, present as potassium salt.

Water Soluble Herbicide for non-selective weed control

READ THE LABEL BEFORE USING.

MONSANTO CANADA INC. 67 Scurfield Blvd.
Winnipeg, Manitoba R3Y 1G4

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MON 78460 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; postemergent in glyphosate tolerant canola, soybean and corn i.e., varieties with the Roundup Ready® gene; 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 asparagus; in North American ginseng; in tree plantings; and grasses for seed production.

NON-CROPLAND USES INCLUDE:

Industrial; recreational, rights-of-way, and public areas; turf grass renovation.

Not for relabelling or repackaging.

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2.0 EMERGENCY NUMBERS

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Accident/Spills/Medical Eme	rgency	(314) 694-4000
	Or	1-800-332-3111
Or CANUTEO	3	(613) 996-6666

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 Monsanto agricultural products, call the Monsanto Canada Custom Care Line at: 1-800-667-4944.

3.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. HARMFUL IF SWALLOWED.

Causes eye irritation. DO NOT get in eyes. Severely irritating to the skin. DO NOT get on skin.

Wear a long-sleeved shirt and long pants during mixing, loading, application, clean-up and repair. In addition, wear goggles or a face shield and chemical-resistant gloves during mixing and loading, clean-up and repair.

Do not enter treated field within 12 hours of application.

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 www.cropro.org/.

3.1 FIRST AID

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3.2 TOXICOLOGICAL INFORMATION

Treat symptomatically.

3.3 ENVIRONMENTAL HAZARDS

Toxic to aquatic organisms and non-target plants. Avoid direct applications to any body of water. Do not contaminate water by disposal of waste or cleaning of equipment. Observe buffer zones specified under "Directions for Use".

3.4 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.

3.5 STORAGE

Avoid contamination of seed, feed, and foodstuffs. Soak up small amounts of spill with absorbent clays.

3.6 DISPOSAL

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NOTICE TO USER – This control product is to be used only in accordance with the directions on this label. It is an offence under the *Pest Control Products Act* to use a control product under unsafe conditions.

DIRECTIONS FOR USE

4.0 GENERAL INFORMATION

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

Observe buffer zones specified in section 5.3.

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

MON 78460 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" (section 7.0 and 8.0) 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.

Rainfall occurring within 60 minutes of treatment may result in reduced weed control. 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 run-off.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, MON 78460 Liquid Herbicide is a Group 9 herbicide. Any weed population may contain or develop plants naturally resistant to MON 78460 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 MON 78460 Liquid Herbicide or other Group 9 herbicides 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.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- 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 Monsanto Canada at 1-800-667-4944 or at www.Monsanto.ca.

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.

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

Clean sprayers and parts immediately after using this product by thoroughly flushing with water. Do not contaminate water sources by disposal of wastes or cleaning of equipment.

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 MIXING AND APPLICATION EQUIPMENT

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 litres 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 litres 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.

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

For control of weeds and woody brush and trees listed in the "Weed Control" section of this label using knapsack sprayers or high volume spraying equipment utilizing handguns or other suitable nozzle arrangements — Unless otherwise specified, make a 0.67 percent solution of this product in water (0.67 litres of this product in 100 litres of water) and apply to foliage of vegetation to be controlled. For best results, use a 1.34 percent solution (1.34 litres of this product in 100 litres of water) on harder to control perennials such as field bindweed, hemp dogbane, 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 run-off. Handgun 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

Aerial application can only be used for weed control in preharvest situations or industrial rights-of-way. Refer to sections 5.3, 9.2.2 and 10.2.2 for application information.

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. Ensure that the maximum boom width does not exceed 65% of the wing span. Nozzle type, size and orientation must be configured to deliver a droplet size VMD in the coarse (400-600 microns) or very coarse (600-1000) range.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate(s) 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 spotter planes is recommended.

Use Precautions

Use 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.

Do not apply to any body of water. Avoid spray drift onto any body of water or other non-target areas. Specified buffer zones must be observed.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

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

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.

Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

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

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed generic label recommendations on the existing ground boom label.

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.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the Monsanto Canada Custom Care Line at 1-800-667-4944 or obtain technical advice from the distributor or your provincial agricultural representative.

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

Volume: Apply the recommended rate in a minimum spray volume 30-100 litres per hectare.

5.3 BUFFER ZONES

- i) **DO NOT** apply during periods of dead calm or when winds are gusty. DO NOT apply with spray droplets smaller than ASAE medium classification.
- ii) <u>Aerial Application</u>: **DO NOT** apply when wind speed is greater than 16 km/h (preharvest) or 8 km/h (rights-of-way) at flying height at the site of application. **DO NOT** apply with spray droplets smaller than the ASAE coarse classification.
- iii) Buffer Zones

The 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, pastures, rangelands and shrublands), and sensitive aquatic habitats (such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands). Do not contaminate these habitats when cleaning and rinsing spray equipment or containers.

Method of	Buffer Zones (metres) required for protection of:	
Application	Aquatic Habitat	Terrestrial Habitat
Field sprayer*	15	15
Aerial (preharvest only)	25	55

^{*}For field sprayers, buffer zones can be reduced by 70% when using shrouds or 30% when using cones.

Aerial Aquatic Buffer Zones (metres)

Acriai Aquanc Dunc	Actial Aquatic Duffer Zones (metres)					
Aerial** (rights-of-way)	One Application Per Season	Two Applications Per Season (i.e., buffer zone below is for 2 nd application)				
		2 application)				
Aircraft:						
Fixed Wing:	50	85				
Helicopter:	20	35				
		1				

^{**} Coarse ASAE (VMD = 385.2 µm); Release height from aircraft <= 10m

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixtures.

6.0 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 "Annual Weed Control" and "Perennial Weed Control" (sections 7.1 and 8.1). The following is a partial list of weeds controlled:

6.1 ANNUAL WEEDS

ANNUAL GRASSES

Barnyard Grass

Echinochloa crusgalli

Blue Grass (annual)

Poa annua

Crab Grass (large)

Digitaria sanguinalis

Crab Grass (smooth)

Digitaria ischaemum

Downy Brome

Bromus tectorum

Fall Panicum

Panicum dichotomiflorum

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

Wild Proso Millet

Panicum miliaceum

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 pensylvanicum

Prickly Lettuce

Lactuca scariola

Ragweed (common)

Ambrosia artemisifolia

Redroot Pigweed

Amaranthus retroflexus

Round-Leaved Mallow

Malva pusilla

Russian Thistle

Salsola pestifer

Shepherd's Purse

Capsella bursa-pastoris

Smooth Pigweed

Amaranthus hybridus

Sowthistle (annual)

Sonchus oleraceus

Stinkweed

Thlaspi arvense

Storksbill

Erodium cicutarium

Velvetleaf

Abutilon theofrasti

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

Wire-Stemmed Muhly

Muhlenbergia frondosa

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 PRECAUTIONARY STATEMENTS, GENERAL INFORMATION AND MIXING AND APPLICATION 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 ANNUAL WEED CONTROL WITH MON 78460 LIQUID HERBICIDE

RATE	GROWTH	WEEDS	COMMENTS
(L/ha)	STAGE	CONTROLLED	(Apply in 50-100 L/ha water)
0.5	Weeds up to 8 cm in height	Wild oats, green foxtail, volunteer barley, volunteer wheat Non-glyphosate tolerant volunteer canola	 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™
		(rapeseed), wild mustard, lady's-thumb, stinkweed	• For heavy wild oat infestations use 0.67 L/ha rate.
0.67	Weeds 8 cm to 15 cm in height	All annual grasses listed above.	• Add 350 mL of surfactant registered for use as listed above.
		All annual broadleaved weeds listed above plus flixweed* and kochia*	* Suppression only. Refer to higher rates of this table or tank mix table (section 7.2) for control options.
0.83 – 1.27	Weeds up to 15 cm in height	All annual grasses listed above plus downy brome, giant foxtail, and Persian darnel.	No surfactant required.For tank mix weed control options see section 7.2.
		All annual broadleaved weeds listed above plus lamb's-quarters, redroot	* DO NOT use these rates on plants greater than 8 cm in height.
		pigweed, hempnettle, flixweed, Russian thistle, volunteer flax, common	** For 3-4 leaf stage use 1.27 L/ha rate.
		ragweed*, Canada fleabane*, wild buckwheat**, narrow-	*** For weeds 8 cm to 15 cm in height use 1.27 L/ha rate.

RATE	GROWTH	WEEDS	COMMENTS
(L/ha)	STAGE	CONTROLLED	(Apply in 50-100 L/ha water)
		leaved hawk's beard***	
1.5	Weeds up to 15 cm in height	All annual grasses listed above plus crab grass and annual blue grass	• For additional annual broadleaved weed control options, refer to tank mix table (section 7.2).
		All annual broadleaved weeds listed above plus kochia, prickly lettuce, shepherd's purse, annual sow thistle, and narrowleaved vetch	
2.33	Weeds over 15 cm in height	All annual grasses and broadleaved weeds listed above	• For additional annual broadleaved weed control options, refer to tank mix table (section 7.2).

Agral is a registered trademark of Syngenta Limited, England. Ag Surf is a registered trademark of Interprovincial Cooperative Ltd. Companion is a trademark of Dow AgroSciences LLC.

NOTE: For spot treatment, 0.5-2.33 litres per hectare is approximately equivalent to 5-23 mL/100m², respectively.

7.2 ANNUAL WEED CONTROL WITH MON 78460 LIQUID HERBICIDE TANK MIXTURES

FOR SUMMERFALLOW & MINIMUM TILLAGE SYSTEMS

TANK MIXTURES	RATE (L/ha)	WEEDS CONTROLLED♦	COMMENTS (Apply in 50-100 L/ha water; add 350 mL/ha of surfactant – see list in section 7.3)
MON 78460 Liquid Herbicide	0.5 – 0.67	Volunteer cereals, wild oats, green foxtail	• This tank mix is registered for summerfallow use only. Weeds should be less than 15 cm tall and actively growing for best results.
+ Banvel II	0.29	Non-glyphosate tolerant volunteer canola (rapeseed), wild mustard,	• Use higher rate if weeds are beyond 8 cm in height.
		flixweed*, lamb's- quarters, lady's- thumb, stinkweed, kochia, Russian	* MON 78460 Liquid Herbicide applied at 0.67 L/ha rate only. ** Suppression only. See other
		thistle, cow cockle, redroot pigweed**,	tank mixtures for control options.

TANK MIXTURES	RATE (L/ha)	WEEDS CONTROLLED◆	COMMENTS (Apply in 50-100 L/ha water;
MIATURES	(L/IIa)	CONTROLLED	add 350 mL/ha of surfactant –
			see list in section 7.3)
		wild buckwheat**	,
		Volunteer cereals,	• This tank mix is registered only
MON 78460	0.5 - 0.67	green foxtail,	for use in summerfallow, and
Liquid		volunteer canola	prior to wheat, oats and barley
Herbicide		(rapeseed), wild mustard, lady's-	in minimum tillage systems.
+	+	thumb, stinkweed,	Weeds should be less than 15 cm tall and actively growing for best
	1.25	wild buckwheat*	results.
Pardner®			
		Redroot	• Use higher rate if weeds are
		pigweed**,	beyond 8 cm in height.
		kochia**, wild	W. I. MON 504 50 7 1 1 1
		oats**	* Use MON 78460 Liquid
			Herbicide at 0.67 L/ha rate only for wild buckwheat control.
			for wha backwheat control.
			** 0.67 L/ha rate, suppression
			only. See other tank mixtures for
			control options.
MON 78460	0.83 - 1.27	Volunteer cereals,	• Weeds should be less than 15
Liquid Herbicide		wild oats, green foxtail, downy	cm tall and actively growing for best results.
Tierbielde	+	brome, giant	best resurts.
+		foxtail, and Persian	• Use higher rate if weeds are
	$0.6 - 0.9^4$	darnel.	beyond 8 cm in height.
2,4-D##	or		
	$1.2 - 1.5^5$	Volunteer canola	No surfactant required.
		(rapeseed) (non- Roundup Ready),	* DO NOT was these rates are
		wild mustard,	* DO NOT use these rates on plants greater than 8 cm in height.
		flixweed, redroot	plants greater than 6 cm in neight.
		pigweed, lady's-	** For 3-4 leaf stage use 1.27
		thumb, stinkweed,	L/ha rate.
		kochia, lamb's-	WWW.T. 1.0 . 1.5
		quarters, hempnettle,	*** For weeds 8 cm to 15 cm in height use 1.27 L/ha rate.
		Russian thistle,	neight use 1.27 L/Ha late.
		volunteer flax,	⁴ 2,4-D at 0.6 – 0.9 L/ha (280 –
		common ragweed*,	420 g ai/ha).
		Canada fleabane,	5
		wild buckwheat**, narrow-leaved	⁵ 2,4-D at 1.2 – 1.5 L/ha (560 –
		hawk's beard***	700 g ai/ha).
		nawk s ocara	

TANK	RATE	WEEDS	COMMENTS
MIXTURES	(L/ha)	CONTROLLED •	(Apply in 50-100 L/ha water;
MIXICKES	(L/IIa)	CONTROLLED	add 350 mL/ha of surfactant –
			see list in section 7.3)
			· · · · · · · · · · · · · · · · · · ·
		Waluntaar Daundun	• Use this tank mix prior to
		Volunteer Roundup	seeding or after seeding but
		Ready canola (1-4	before crop emergence in wheat,
		leaf stage) ⁴ ,	winter wheat, barley and rye.
		bluebur ⁴ , burdock ⁴ ,	
		cocklebur ⁴ ,	
		common plantain ⁴ ,	
		daisy fleabane ⁴ ,	
		false flax ⁴ , false	
		ragweed ⁴ , goat's	
		beard ⁴ , mustards ⁴	
		(except dog and	
		tansy), prickly	
		lettuce ⁴ , ragweeds ⁴ ,	
		Russian pigweed ⁴ ,	
		shepherd's purse ⁴ ,	
		stinging nettle ⁴ ,	
		sweet clover ⁴ ,	
		thyme-leaved	
		spurge ⁴ , wild	
		radish ⁴ , wild	
		sunflower ⁴	
		Volunteer Roundup	
		Ready canola (4-5	
		leaf stage) ⁵ , annual	
		sow thistle ⁵ ,	
		common	
		chickweed ⁵ ,	
		common purslane ⁵ ,	
		dog and tansy	
		mustard ⁵ , oak-	
		leaved goosefoot ⁵ ,	
		groundsel ⁵ , hairy	
		galinsoga ⁵ ,	
		hawkweed ⁵ , heal-	
		all ⁵ , knotweed ⁵ ,	
		peppergrass ⁵ ,	
		pineapple weed ⁵ ,	
		prostrate pigweed ⁵ ,	
		purslane ⁵ , sheep	
		sorrel ⁵ , smartweed ⁵ ,	
		tumble pigweed ⁵ ,	

TANK MIXTURES	RATE	WEEDS	COMMENTS (Apply in 50, 100 L/be water)
MIXTURES	(L/ha)	CONTROLLED ◆	(Apply in 50-100 L/ha water; add 350 mL/ha of surfactant –
			see list in section 7.3)
		velvetleaf ⁵ ,	
		volunteer canola ⁵	
MON 78460	0.5 - 0.67	Volunteer cereals,	• This tank mix is registered for
Liquid		wild oats* and	summerfallow use only. Weeds
Herbicide		green foxtail*	should be less than 15 cm tall and
	+	Volunteer canola	actively growing for best results.
+	1.2	(rapeseed), wild	• Use higher rate if woods are
2,4-D#	1.2	mustard, flixweed,	• Use higher rate if weeds are beyond 8 cm in height.
2,1 2 11		redroot pigweed,	beyond a cm in neight.
		lady's-thumb,	* Use MON 78460 Liquid
		stinkweed, kochia	Herbicide at 0.67 L/ha rate only
			for wild oat and green foxtail
			control.
		Lamb's-quarters**,	
		Russian thistle**	** Suppression only. See other
MON 78460	0.83 – 1.27	Voluntaer careals	tank mixtures for control options. Weeds should be less than 15 cm
Liquid	0.83 - 1.27	Volunteer cereals, wild oats, green	tall and actively growing for best
Herbicide		foxtail, downy	results.
		brome, giant	Tesares.
+		foxtail, Persian	Use higher rate if weeds are
		darnel	beyond 8 cm in height.
MCPA###	+		
500 g/L	0.5.0.71	Volunteer canola	No surfactant required.
formulation; if	$0.5 - 0.7^{1}$	(rapeseed) (non-	* DO NOT use these rates on
another formulation is	OR $0.5-1.0^2$	Roundup Ready), wild mustard,	* DO NOT use these rates on plants greater than 8 cm in height.
used, adjust	OK 0.3-1.0	flixweed, redroot	plants greater than 8 cm in height.
rate		pigweed, lady's-	** For 3- to 4-leaf stage use 1.27
accordingly.		thumb, stinkweed,	L/ha rate.
		kochia, lamb's-	
		quarters,	*** For weeds 8 cm to 15 cm in
		hempnettle,	height use 1.27 L/ha rate.
		Russian thistle,	IMODA : 405 0717
		volunteer flax,	¹ MCPA amine at 0.5 – 0.7 L/ha
		common ragweed*, Canada fleabane,	(250 – 350 g ai/ha) prior to peas.
		wild buckwheat**,	² MCPA at 0.5 – 1.0 L/ha (250 –
		narrow-leaved	500 g ai/ha) prior to wheat,
		hawk's beard***	barley, oats, corn (field and
			sweet)###, rye and flax.
		Volunteer Roundup	

TANK	RATE	WEEDS	COMMENTS
MIXTURES	(L/ha)	CONTROLLED ♦	(Apply in 50-100 L/ha water;
			add 350 mL/ha of surfactant – see list in section 7.3)
		Ready canola (1-4	³ MCPA at 0.7 – 1.0 L/ha (350 –
		leaf stage) ^{1,2} ,	500 g ai/ha) only.
		bluebur ³ , burdock ³	, ,
		(before 4 leaf	Use this tank mix prior to seeding
		stage), false flax ³ ,	in wheat, barley, rye, oats, corn
		flixweed ³ , lamb's-	(field and sweet)###, flax and
		quarters ³ , mustards ³ (except dog and	field peas###.
		tansy), prickly	
		lettuce ³ , ragweeds ³ ,	
		redroot pigweed ³ ,	
		Russian pigweed ³ ,	
		shepherd's purse ³ ,	
		stinkweed (field	
		pennycress) ³ , vetch ³ , wild radish ³ ,	
		wild sunflower ³	
MON 78460	0.83 - 1.27	Volunteer cereals,	Weeds should be less than 15 cm
Liquid		wild oats, green	tall and actively growing for best
Herbicide		foxtail, downy	results.
		brome, giant	He higher note if woods are
+		foxtail, Persian darnel.	Use higher rate if weeds are beyond 8 cm in height.
Buctril M	+	darner.	beyond o chi in height.
Herbicide		Volunteer canola	No surfactant required.
	$0.5-1.0^{1}$	(rapeseed) (non-	_
		Roundup Ready),	* DO NOT use these rates on
		wild mustard,	plants greater than 8 cm in height.
		flixweed, redroot pigweed, lady's-	** For 3- to 4-leaf stage use 1.27
		thumb, stinkweed,	L/ha rate.
		kochia, lamb's-	
		quarters,	*** For weeds 8 cm to 15 cm in
		hempnettle,	height use 1.27 L/ha rate.
		Russian thistle, volunteer flax,	¹ Buctril M at 0.5 – 1.0 L/ha (280
		common ragweed*,	- 560 g ai/ha) for all crops listed.
		Canada fleabane,	200 g an may for an crops fished.
		wild buckwheat**,	² Buctril M at 1.0 L/ha (560 g
		narrow-leaved	ai/ha only).
		hawk's beard***	30
		Voluntaer Dave de	³ Spray before plants are 5 cm
		Volunteer Roundup	high.

TANK MIXTURES	RATE (L/ha)	WEEDS CONTROLLED◆	COMMENTS (Apply in 50-100 L/ha water; add 350 mL/ha of surfactant – see list in section 7.3)
		Ready Canola (1-4 leaf stage) ^{1,2}	⁴ Spring annuals only.
		Seedlings up to the 4-leaf stage ² : green smartweed, pale smartweed, lady's-thumb, cow cockle, redroot pigweed, flixweed, bluebur, shepherd's purse, kochia ³ , Russian thistle ³ , scentless chamomile ⁴ , volunteer sunflower, night flowering catchfly, cocklebur, velvetleaf ⁵ , ball mustard, American nightshade Seedlings up to the 6-leaf stage ² : wild tomato	⁵ Spray before plants are 8 cm high. Use this tank mix prior to seeding in wheat, barley, rye, oats, corn, flax, canary seed and seedling grasses (including brome grass, crested wheatgrass, intermediate wheat grass, slender wheatgrass, tall wheatgrass, Russian wild rye, Timothy, orchard grass, creeping red fescue, meadow fescue, meadow foxtail, seedling tall fescue, seedling meadow bromegrass, seedling streambank wheatgrass and reed canary grass.
		Seedlings up to the 8-leaf stage ² : wild buckwheat, tartary buckwheat, common buckwheat, stinkweed, wild mustard, wormseed mustard, lamb's-quarters, common ragweed, common groundsel Perennials (top growth) ² : Canada thistle, perennial sowthistle	

TANK MIXTURES	RATE (L/ha)	WEEDS CONTROLLED◆	COMMENTS (Apply in 50-100 L/ha water; add 350 mL/ha of surfactant – see list in section 7.3)
MON 78560 Liquid Herbicide + MCPA amine (500 g/L	0.83 – 1.27	Volunteer cereals, wild oats, green foxtail, downy brome, giant foxtail, Persian darnel. Volunteer canola	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. No surfactant required.
formulation; if another formulation is used, adjust rate accordingly).	0.5 – 0.7	(rapeseed)(non-Roundup Ready), wild mustard, flixweed, redroot pigweed, lady's-thumb, stinkweed, kochia, lamb's-quarters, hempnettle, Russian thistle, volunteer flax, common ragweed*, Canada fleabane, wild buckwheat**, narrow-leaved hawk's beard***	* DO NOT use these rates on plants greater than 8 cm in height. ** For 3- to 4-leaf stage use 1.27 L/ha rate. *** For weeds 8 cm to 15 cm in height use 1.27 L/ha rate. 3 MCPA amine at 0.5 – 0.7 L/ha (250 – 350 g ai/ha) prior to lentils and chickpeas. 4 MCPA amine at 0.7 L/ha (350 g ai/ha) only.
		Volunteer Roundup Ready canola (1-4 leaf stage) ³ , bluebur ⁴ , burdock ⁴ (before 4 leaf stage), false flax ⁴ , flixweed ⁴ , lamb's- quarters ⁴ , mustards ⁴ (except dog and tansy), prickly lettuce ⁴ , ragweeds ⁴ , redroot pigweed ⁴ , Russian pigweed ⁴ , shepherd's purse ⁴ , stinkweed ⁴ (field pennycress), vetch ⁴ , wild radish ⁴ , wild sunflower ⁴	Use this tank mix prior to seeding in lentil and chickpea.

◆ For foxtail barley, refer to "**Perennial Weed Control**" table (section 8.1). # 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. ### Use only amine formulations of MCPA prior to seeding in corn and field peas.

Banvel II is a registered trademark of BASF Corporation. Pardner and Buctril are registered trademarks of Aventis CropScience SA.

7.3 SURFACTANT INFORMATION

NOTE:

Addition of Surfactant – All MON 78460 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 millilitres per hectare, in 50 – 100 litres of clean water.

7.4 ADDITIONAL IMPORTANT INFORMATION FOR ANNUAL WEED CONTROL

MON 78460 Liquid Herbicide, applied by itself, will not control volunteers from crops containing the Roundup Ready® gene.

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 "General Information" and "Mixing and Application" (Sections 4.0 and 5.0, respectively).

7.5 WEED CONTROL IN GLYPHOSATE TOLERANT CANOLA (I.E., VARIETIES WITH THE ROUNDUP READY GENE)

WARNING: APPLY MON 78460 LIQUID HERBICIDE ON GLYPHOSATE TOLERANT CANOLA VARIETIES ONLY (I.E., VARIETIES WITH THE ROUNDUP READY GENE).

NOTE: ALWAYS USE PEDIGREED (I.E., CERTIFIED) GLYPHOSATE TOLERANT CANOLA SEED. CANOLA WHICH IS NOT DESIGNATED AS GLYPHOSATE TOLERANT WILL BE DAMAGED OR DESTROYED BY THIS TREATMENT.

- For additional information and precautions refer to "General Information" and "Mixing and Application" (sections 4.0 and 5.0, respectively).
- Apply MON 78460 Liquid Herbicide in glyphosate tolerant canola only as directed in the following weed control table.
- Some short-term, visual yellowing may occur when MON 78460 Liquid Herbicide is applied at the late application (4 to 6 leaf stage) of the crop. This effect is temporary and will not influence crop growth, maturity or yield.

DO NOT APPLY BY AIR.

The following table described the rate and specific application instructions for control of annual and perennial weeds in glyphosate tolerant canola varieties.

WEED CONTROL IN CANOLA WITH THE ROUNDUP READY GENE

RATE (L/ha)	GROWTH STAGE OF CROP	WEEDS CONTROLLED	COMMENTS (Apply in 50 –100 L/ha water)
0.55 – 1.27	0 to 6 leaf	Annual Grasses Wild oats, green foxtail, volunteer barley, volunteer wheat, barnyard grass	• Repeat applications may be required if a second flush of weeds germinates prior to canopy closure.
		Annual Broadleaves Stinkweed, redroot pigweed, wild mustard, Russian thistle, lamb's-	• Ensure the crop has not advanced beyond the recommended growth stage.
		quarters, non-glyphosate tolerant volunteer canola (rapeseed), hempnettle, lady's-thumb, kochia, chickweed, corn spurry, wild tomato, cleavers*,	* Use 0.83 L/ha for control of these weeds at all crop growth stages. The lower rate can be used for control of shepherd's purse, cow cockle and night-flowering catchfly at the 1 – 3

RATE	GROWTH	WEEDS CONTROLLED	COMMENTS
(L/ha)	STAGE OF		(Apply in 50 –100 L/ha water)
	CROP		
		wild buckwheat*,	leaf stage of the crop or for
		shepherd's purse*, cow	control of smartweed at the $4-6$
		cockle*, night-flowering	leaf stage.
		catchfly*, smartweed*,	
		stork's-bill*, flixweed*,	** A single application of 0.83
		narrow-leaved hawk's	L/ha is required.
		beard*, round-leaved	
		mallow***	*** Sequential applications of
			0.83 L/ha are required.
		<u>Perennials</u>	
		(suppression)**	**** Sequential applications of
		Canada thistle, perennial	0.83 L/ha or a single application
		sow thistle, dandelion	of 1.27 L/ha are required.
		Perennials (season-long	• For sequential applications,
		<u>control)</u>	ensure the crop has not advanced
		Quackgrass**, foxtail	beyond the recommended growth
		barley***, Canada	stage.
		thistle****, perennial sow	
		thistle****	• Maximum 1.66 L/ha is allowed
			for the postemergence use.

7.5.1 TANK MIXTURES

For season long control of top growth of Canada thistle and control of wild buckwheat in glyphosate tolerant canola (i.e., varieties with the Roundup Ready Gene), apply a tank mixture of 0.28 L/ha of Lontrel 360 with 0.83 L/ha of MON 78460 Liquid Herbicide, in 100 litres of water per hectare. Apply when canola is in the 2- to 6-leaf stage. Refer to the Lontrel 360 and to the MON 78460 Liquid Herbicide labels for a list of other weeds controlled, timing of application, water volumes and use precautions.

Lontrel is a registered trademark of Dow AgroScience LLC.

7.6 WEED CONTROL IN GLYPHOSATE TOLERANT SOYBEAN (I.E., VARIETIES WITH THE ROUNDUP READY GENE)

WARNING: APPLY MON 78460 LIQUID HERBICIDE ON GLYPHOSATE TOLERANT SOYBEAN VARIETIES ONLY (I.E., VARIETIES WITH THE ROUNDUP READY GENE).

NOTE: ALWAYS USE PEDIGREED (I.E., CERTIFIED) SOYBEAN SEED DESIGNATED AS GLYPHOSATE TOLERANT. SOYBEANS WHICH ARE NOT DESIGNATED AS GLYPHOSATE TOLERANT WILL BE DAMAGED OR DESTROYED BY THIS TREATMENT.

DO NOT APPLY BY AIR.

RATE (L/ha)	GROWTH STAGE OF CROP	WEEDS CONTROLLED♦	COMMENTS (Use 100 – 200 L/ha water volumes)
1.67	First trifoliate leaf stage through flowering	Velvetleaf, common ragweed, common lamb's-quarters, redroot pigweed, smooth pigweed, cocklebur, green smartweed, lady's-thumb, Pennsylvania smartweed, Eastern black flowering nightshade, wild mustard, wild buckwheat, foxtail (green, yellow, giant), barnyard grass, crabgrass (smooth, large), quackgrass, milkweed*, yellow nutsedge*, fall panicum, wild proso millet	 A second 1.67 L/ha application may be used for late weed flushes emerging after the initial treatment. * suppression only This second application must be made no later than the flowering stage of the soybean.
1.67 – 3.33	First trifoliate leaf stage through to flowering	Perennial sow thistle, Canada thistle, wire- stemmed muhly	 A single application at the higher rate or a second (sequential) application of 1.67 L/ha will improve control in heavy weed infestations. If sequential applications of 1.67 L/ha are used they should be at least 2 weeks apart for best results on perennial weeds. This second application must be made no later than the flowering stage of the soybean. Perennial sow thistle and Canada thistle should be from the rosette stage to 50 cm in height and actively growing. Wire-stemmed muhly should be 10-20 cm in height and actively growing. Plants not fully emerged at the

RATE (L/ha)	GROWTH STAGE OF CROP	WEEDS CONTROLLED♦	COMMENTS (Use 100 – 200 L/ha water volumes)
			time of application will escape the treatment.
3.33	First trifoliate leaf stage through flowering	All weeds listed above, plus milkweed**, yellow nutsedge**, field bindweed**	 Only one application per season at 3.33 L/ha. ** Will also be controlled by sequential applications of 1.67 L/ha. Applications should be at least 2 weeks apart for optimum control. This second application must be made no later than the flowering stage of the soybean. Milkweed should be 15-60 cm in height and actively growing; nutsedge should be 5-15 cm in height and actively growing. Plants not fully emerged at time of treatment will not be controlled.

♦ Weeds will be more easily controlled and early crop competition avoided with applications made when the weeds are small. Control of annual weeds greater than 25 cm in height will be inconsistent, although some weeds may be controlled.

7.6.1 TANK MIXTURES

MON 78460 Liquid Herbicide plus Pursuit Herbicide

For added residual control of late germinating eastern black nightshade, common lamb's quarters, redroot pigweed, velvetleaf, fall panicum and wild proso millet, Pursuit herbicide may be tank mixed with MON 78460 Liquid Herbicide at a rate of 1.67 litres per hectare. Use 0.16 to 0.21 litres per hectare of Pursuit and apply up to and including the 3rd trifoliate leaf stage of the Roundup Ready soybeans in 100-200 litres per hectare of clean water. The higher rate is recommended for heavier infestations. This tank mix is recommended primarily for soybean systems with row spacings of 50 centimetres (20 inches) or more where a single application timing is desired.

Mixing: Add and mix Pursuit as per instructions on the Pursuit label and then add MON 78460 Liquid Herbicide as per instructions on this label.

A PHI of 100 days is required for the tank mix of MON 78460 Liquid Herbicide and Pursuit herbicide on glyphosate tolerant soybeans.

Only one application per season of MON 78460 Liquid Herbicide at 1.67 litres per hectare tank mixed with Pursuit herbicide at 0.16 to 0.21 litres per hectare is permitted.

Refer to the Pursuit herbicide label for further safety precautions and handling instructions.

MON 78460 Liquid Herbicide plus Assure® II Herbicide

RATE	GROWTH	WEEDS	COMMENTS
	STAGE OF	CONTROLLED ♦	
	CROP		
1.67 – 3.33 L/ha MON	First trifoliate	Volunteer Roundup	See additional
78460 Liquid Herbicide	leaf stage	Ready corn.	information
	through		following this
+	flowering.	Apply at the 2- to 6-	table.
		leaf stage of the weed.	
0.25 - 0.38 L/ha Assure			
II Herbicide			

^{*}Sure Mix may or may not be added to this tank mix

♦ Weeds will be more easily controlled and early crop competition avoided with applications made when the weeds are small. Control of annual weeds greater than 25 centimetres in height will be inconsistent, although some weeds may be controlled.

Assure is a registered trademark of EI Dupont de Nemours and Company

Volunteer Roundup Ready Corn Control

For control of volunteer Roundup Ready corn, Assure II herbicide may be tank mixed with MON 78460 Liquid Herbicide. Use 1.67 to 3.33 litres per hectare MON 78460 Liquid Herbicide and 0.25 - 0.38 litre per hectare of Assure II herbicide.

The higher rate of Assure II may be required when there are high populations of volunteer Roundup Ready corn, other grass weeds are present or when conditions at application are not favorable for weed growth.

Apply in 100 to 300 litres per hectare of clean water.

Mixing: Add and mix Assure II herbicide as per instructions on the Assure II herbicide label and then add MON 78460 Liquid Herbicide as per instructions on this label.

This tank mix is to be applied when the crop is from the first trifoliate leaf stage through flowering and when the volunteer Roundup Ready corn is at the 2- to 6-leaf stage.

A PHI (preharvest interval) of 80 days is required for the tank-mix of MON 78460 Liquid Herbicide and Assure II herbicide on Roundup Ready (glyphosate tolerant) soybeans.

Refer to the Assure II Herbicide label for further safety precautions and handling instructions.

Pursuit is a registered trademark of BASF Agrochemical Products B.V. Netherlands. Assure is a registered trademark of EI Dupont de Nemours and Company.

7.7 WEED CONTROL IN GLYPHOSATE TOLERANT CORN I.E., VARIETIES WITH THE ROUNDUP READY GENE

WARNING: APPLY MON 78460 LIQUID HERBICIDE ON GLYPHOSATE TOLERANT CORN VARIETIES ONLY; I.E., VARIETIES WITH THE ROUNDUP READY GENE.

NOTE: ALWAYS USE PEDIGREED (I.E., CERTIFIED) CORN SEED DESIGNATED AS GLYPHOSATE TOLERANT. CORN WHICH IS NOT DESIGNATED AS GLYPHOSATE TOLERANT WILL BE DAMAGED OR DESTROYED BY THIS TREATMENT.

DO NOT APPLY BY AIR

RATE	GROWTH	WEEDS	COMMENTS
(L/ha)	STAGE OF	CONTROLLED ♦	(use 100-200 L/ha water
	CROP		volumes)
1.67	Up to and	Velvetleaf, common	• A second application may be
	including 8	ragweed, lamb's-quarters,	used for late weed flushes
	leaf stage	redroot pigweed, smooth	emerging after the initial
		pigweed, cocklebur, green	treatment.
		smartweed, lady's-thumb,	
		pennsylvania smartweed,	• This second application must be
		eastern black flowering	made no later than the 8 leaf stage
		nightshade, wild mustard,	of the corn.
		wild buckwheat, foxtail	
		(green, yellow, giant),	
		barnyard grass, crabgrass	
		(smooth, large),	
		quackgrass, fall panicum,	
		wild proso millet	
		Wild oats, volunteer	
		barley, volunteer wheat,	
		stinkweed, wild mustard,	
		Russian thistle, non-	
		glyphosate tolerant canola	
		(rapeseed), hempnettle,	

RATE (L/ha)	GROWTH STAGE OF CROP	WEEDS CONTROLLED◆	COMMENTS (use 100-200 L/ha water volumes)
		kochia, chickweed, corn spurry, wild tomato, cleavers, shepherd's purse, cow cockle, night- flowering catchfly, stork's-bill, flixweed, narrow-leaved hawk's beard	
1.67	Up to and including 8 leaf stage	Common milkweed, yellow nutsedge, round- leaved mallow, field bindweed	 For control of common milkweed, yellow nutsedge, roundleaved mallow and field bindweed use two applications of 1.67 L/ha This second application must be
			 made no later than the 8 leaf stage of the corn. Milkweed should be 15-60 cm in height and actively growing Yellow nutsedge should be 5-15
1.67	Up to and including 8 leaf stage	Perennial sowthistle, Canada thistle, wire- stemmed muhly	 cm in height and actively growing. A second (sequential) application of 1.67 L/ha will improve control in heavy weed infestations. If sequential applications are used they should be at least 2 weeks apart for best results on perennial weeds.
			 This second application must be made no later than the 8 leaf stage of the corn. Perennial sow thistle and Canada thistle should be from the rosette stage to 50 cm in height and actively growing.
			• Wire-stemmed muhly should be 10-20 cm in height and actively growing.

RATE (L/ha)	GROWTH STAGE OF CROP	WEEDS CONTROLLED♦	COMMENTS (use 100-200 L/ha water volumes)
			• Plants not fully emerged at the
			time of application will escape
			treatment.

♦ Weeds will be more easily controlled and early crop competition avoided with applications made when the weeds are small. Control of weeds greater than 25 cm in height will be inconsistent, although some weeds may be controlled.

7.7.1 TANK MIXTURES

For tank mixtures, add either atrazine or Marksman® herbicide according to instructions on the product label, and then add MON 78460 Liquid Herbicide according to instructions on this label (section 5). Refer to the atrazine and Marksman herbicide product labels for further safety precautions and product handling instructions.

DO NOT APPLY BY AIR

RATE	GROWTH	WEEDS	COMMENTS
	STAGE OF CROP	CONTROLLED ♦	(Use 100-200 L/ha
			water volumes)
1.67 L/ha	Up to and including	Residual control of	Tank-mix should be
MON 78460 Liquid	the 5-leaf stage.	lamb's-quarters,	used when only a
Herbicide		redroot pigweed,	single application
		common ragweed.	timing is desired.
+			Use the higher rate
			of atrazine for
0.75 - 1.0 kg ai/ha			heavier weed
atrazine*			infestations.
1.67 L/ha	Up to and including	Residual control of	Tank-mix should be
MON 78460 Liquid	the 5-leaf stage.	lamb's-quarters,	used when only a
Herbicide		redroot pigweed,	single application
		common ragweed,	timing is desired.
+		velvetleaf.	Use the higher rate
			of Marksman for
2.5 - 3.7 L/ha			heavier weed
Marksman			infestations.
Herbicide			

^{* 0.75} to 1.0 kilogram active ingredient atrazine per hectare is equivalent to 1.56 to 2.08 litres per hectare of Clean Crop Atrazine 480TM or Aatrex Liquid 480TM, or 0.83 to 1.11 kilograms per hectare of Aatrex Nine-O®.

♦ Weeds will be more easily controlled and early crop competition avoided with applications made when the weeds are small. Control of weeds greater than 25 centimetres in height will be inconsistent, although some weeds may be controlled.

Marksman is a registered trademark of BASF Corporation. Clean Crop Atrazine 480 is a trademark of United Agri Products. Aatrex Liquid 480 is a trademark and Aatrex Nine-O is a registered trademark of Syngenta Crop Protection Canada Inc.

8.0 PERENNIAL WEED CONTROL

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

DO NOT APPLY BY AIR.

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 MON 78460 LIQUID HERBICIDE

	APPI	LICATIO		
WEED	GROWTH	RATE	WATER	COMMENTS
	STAGE	(L/ha)	VOLUME	
Quackgrass	3 to 4 green	1.67	(L/ha) 50 - 300	Apply in clean water using
(control, light	leaves or more	1.07	30 - 300	flat fan nozzles.
to moderate	icaves of more			• Allow 3 or more days after
infestations)				treatment before tillage.
				• Refer to "Quackgrass"
				notes in section 8.2.1 for more
				information.
				• For higher volumes (i.e.,
				150 – 300 L/ha) an approved
				surfactant must be added at
				0.5 L per 100 L of clean water
				(0.5% v/v). Refer to list in section 8.2.2. See also below.
Quackgrass	3 to 4 green	1.67 –	50 - 300	• Allow 3 or more days after
(long term	leaves or more	4.67	30 300	treatment before tillage.
control, heavy				• Rates higher than 1.67 L/ha
infestations,				will provide more consistent,
high water				longer term control, especially
volumes)				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
Canada	Posatta staga	1.67	50 - 100	information.
Thistle	Rosette stage (summerfallow)	1.07	JU - 100	• Apply in clean water using flat fan nozzles.
Instic	(Summerfullow)			• Allow 10 or more days after
				treatment before tillage.
				• Refer to "Canada Thistle"
				notes in section 8.2.3 for more
				information.
Canada	Bud stage or	3.17 –	100 - 300	• Allow 5 or more days after
Thistle	beyond	4.67		treatment before tillage.
Field	Full bloom or	4.67 -	100 - 300	• Allow 7 or more days after
Bindweed	beyond	8		treatment before tillage.

	APPI	LICATIO		
WEED	STAGE (L/ha) VOLUM		WATER VOLUME (L/ha)	COMMENTS
Common Milkweed*	Bud to full bloom (preharvest) Bud to full bloom	1.67	50 – 100 100 - 300	 See "Preharvest Control" (section 9.9). Allow 7 or more days after treatment before tillage. Reduced control may occur after full bloom. Milkweed may not all be in the correct stage, therefore, repeat treatments may be required.
Toadflax	Vegetative Stage (summerfallow) Bud to full bloom (preharvest)	1.67	50 - 100	 Apply in clean water using flat fan nozzles. Allow 7 or more days after treatment before tillage in summerfallow. For more information, see "Summerfallow Control" (section 8.2.4), or "Preharvest Control" (Section 9.9).
Alfalfa	Early bud to full bloom stage Fall applications only	2.47 – 3.33	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.

	APP	LICATIO		
WEED	GROWTH STAGE	RATE (L/ha)	WATER VOLUME	COMMENTS
Dandelion	< 15 cm	1.67	(L/ha) 50 – 100	• Allow 3 or more days after treatment before tillage for all
	> 15 cm	2.47 – 3.33	50 – 300	rates. • Use the higher rate when infestations are heavy.
	Rosette to full bloom (preharvest)	1.67	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	Seeding to heading	1.67 – 3.33	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	4.67 - 8	100 - 300	• Allow 7 or more days after treatment before tillage.

*NOTE: For spot treatment, mix 80 millilitres of product in 5 litres clean water per 100 m^2 (1.67 – 8 litres per hectare is approximately equivalent to 17 – 80 mL/100m², respectively).

8.2 SPECIAL NOTES FOR PERENNIAL WEED CONTROL

8.2.1 QUACKGRASS

For **season-long control on fall tilled ground**: Apply 1.67 litres per hectare of this product in spring prior to seeding. Apply in 50 to 100 litres per hectare of clean water as described in the preceding table. Delay application until the majority of quackgass plants have 4 to 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 centimetres.

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 SURFACTANT INFORMATION

The following is a list of approved surfactants for use with MON 78460 Liquid Herbicide for control of quackgrass:

Agral 90 Companion
Ag Surf Frigate®

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

Frigate is a registered trademark of Syngenta Crop Protection Canada Inc.

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 summerfallow tillage as usual and perform the last tillage operation between July 15th and August 1st.
- 2. Allow the thistles to regrow for a minimum of 5 weeks until they are a minimum of 15 centimetres 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.

MON 78460 LIQUID HERBICIDE PLUS BANVEL II TANK MIXTURES

For control of Canada thistle (and perennial sow thistle) in summerfallow of in postharvest stubble, apply 1.13 litres per hectare MON 78460 Liquid Herbicide plus 1.25 litres per hectare Banvel II in 100 - 200 litres per hectare of clean water. In addition, add 350 millilitres per hectare of a non-ionic surfactant registered for use with this product, such as Agral 90, Ag Surf or Companion.

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

In postharvest 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 Summerfallow Vegetative Stage

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

- 1. Conduct summerfallow tillage as usual and perform the last tillage operation between July 10th to July 21st.
- 2. Allow toadflax to regrow for a minimum of 4 to 5 weeks until they are minimum of 15 centimetres 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 1.67 to 3.33 litres per hectare MON 78460 Liquid Herbicide and 1.2 to 2.4 litres per hectare of any 500 grams per litre 2,4-D amine or low volatile ester formulation in 100 to 200 litres of water per hectare. (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 litres per hectare) and 1.67 to 3.33 litres per hectare MON 78460 Liquid Herbicide. 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 MON 78460 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 MON 78460 Liquid Herbicide" (section 8.1).

Nozzle Type: For best results with conventional boom equipment apply this product with 50 to 300 litres per hectare 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 to 7 days for best results. See "**Weed Control**" tables (sections 7.1 and 8.1) 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 control 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

ALWAYS READ PRECAUTIONARY STATEMENTS, GENERAL INFORMATION AND MIXING AND APPLICATION SECTIONS (3.0, 4.0 and 5.0) PRIOR TO SPECIFIC APPLICATION INFORMATION IN ANY LABEL SECTION. DO NOT APPLY BY AIR EXCEPT FOR PREHARVEST APPLICATION (SECTION 9.9.2)

This product can be applied as a broadcast spray or spot treatment prior to planting all crops, postharvest 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 summerfallow. It may also be applied as a broadcast spray in glyphosate tolerant corn, soybean or canola, i.e., varieties with the Roundup Ready gene (sections 7.5, 7.6 and 7.7). It may be applied as a directed spray in orchards, vineyards, blueberries and strawberries, and using selective equipment in soy and dry beans, orchards, vineyards, cranberries and strawberries (refer to specific sections below for more information). For specific instructions on weed control in the following cropping situations, always refer to "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 preemergent weed control and newly germinating weeds may be a problem in the crop. APPLY BEFORE SEEDING OR TRANSPLANTING.

9.2 POSTHARVEST 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 to 25 centimetres tall for quackgrass and Canada thistle) before application and ensure they have a high proportion of green colouration. 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 (sections 7.1 and 8.1) or use a 0.67 percent solution for annual weeds and quackgrass and a 1.34 percent solution for other perennial weeds (a 0.67 percent solution equals 0.67 litres of MON 78460 Liquid Herbicide in 100 litres of spray solution). 0.67 and 1.34 percent 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 "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 MON 78460 LIQUID HERBICIDE TO TRANSLOCATE INTO ALL PLANT

PARTS BEFORE GRAZING OR HARVESTING TREATED AREAS IN FORAGES.

9.4 SUMMERFALLOW TREATMENT

This product, or labeled tank mixtures, may be applied in summerfallow 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 MON 78460 Liquid Herbicide plus 2,4-D amine or ester** can be applied prior to seeding or after seeding, but before crop emergence **in wheat, winter wheat, barley and rye.** Refer to "**Annual Weed Control with MON 78460 Liquid Herbicide Tank Mixtures**" table for information (section 7.2).
- **9.5.2 MON 78460 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 MON 78460 Liquid Herbicide Tank Mixtures" table for information (section 7.2).
- **9.5.3** MON 78460 Liquid Herbicide plus Pursuit® can be applied prior to, or after seeding, but before crop emergence in soybeans. MON 78460 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 litres of water per hectare, 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.

Pursuit is a registered trademark of BASF Agrochemical Products B.V. Netherlands.

- **9.5.4 MON 78460 Liquid Herbicide plus MCPA** can be applied prior to seeding in wheat, barley, rye, oats, corn (field and sweet; MCPA amine only), flax and field peas (MCPA amine only). Refer to "**Annual Weed Control with MON 78460 Liquid Herbicide Tank Mixtures**" table for information (section 7.2).
- 9.5.5 MON 78460 Liquid Herbicide plus Buctril M® can be applied prior to seeding in wheat, rye, corn, barley, oats, flax, canary seed and seedling grasses (including brome grass, crested wheatgrass, intermediate wheat grass, slender wheatgrass, tall wheatgrass, Russian wild rye, Timothy, Orchard grass, creeping red fescue, meadow fescue, meadow foxtail, seedling tall fescue, seedling meadow bromegrass, seedling streambank wheatgrass and reed canary grass. Refer to "Annual Weed Control with MON 78460 Liquid Herbicide Tank Mixtures" table for information (section 7.2).
- **9.5.6** MON 78460 Liquid Herbicide plus MCPA amine can be applied prior to seeding in lentil and chickpea. Refer to "Annual Weed Control with MON 78460 Liquid Herbicide Tank Mixtures" table for information (section 7.2).

9.6 FORAGES 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 centimetres 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 centimetres in height but before emergence of seed head. The crop in the treated areas will be killed. Take care to avoid drift outside target areas for the same reason.

9.9 PREHARVEST TREATMENT

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, MON 78460 Liquid Herbicide can be applied prior to harvest of wheat, barley (including malting barley), oats, canola (rapeseed) (including glyphosate tolerant varieties), flax (including low linolenic acid varieties), lentils, peas, dry beans, soybeans (including glyphosate tolerant varieties) 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. Preharvest treatment to glyphosate tolerant varieties of canola and soybean provides weed control only.

MON 78460 Liquid Herbicide should be applied preharvest at 1.67 litres per hectare in 50 to 100 litres per hectare of clean water, by ground application only. Apply only when the crop has 30 percent or less grain moisture content. This stage typically occurs 7 to 14 days before harvest. For forage crops, apply this product at 1.67 to 3.33 litres per hectare 3 to 7 days prior to the last cut before rotation or forage renovation. Consult the table "Guidelines for Timing of Preharvest Applications" (section 9.9.1) 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 to 14 days (or 3 to 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.

Overspray or drift to important wildlife habitats such as bodies of water, wetlands (e.g., sloughs), shelterbelts, woodlots and other cover on the edges of fields frequented by wildlife, should be avoided. Leave a 15 metre buffer zone between the last spray swath and the edge of any of these habitats.

Do not expose or contaminate any body of water or non-target vegetation by direct application, spray drift, or when cleaning and rinsing spray equipment.

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 (including glyphosate tolerant varieties)	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 (including glyphosate tolerant varieties)	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.

9.9.2 PREHARVEST AERIAL APPLICATION

Refer to the general guidelines for aerial application in Sections 5.2 and 5.3 as well as specific instructions in this section.

RESTRICTED USE

AERIAL PREHARVEST APPLICATION PRAIRIE PROVINCES ONLY (including PEACE RIVER REGION OF B.C.)

NOTICE TO USER: This control product is to be used only in accordance with the directions of this label. It is an offence under the *Pest Control Products Act* to use a control product under unsafe conditions.

NATURE OF RESTRICTION: This product is to be used only in the manner

authorized. For use only by aerial applicators and aerial application services approved by the provincial regulatory agency to apply this product with aerial application equipment. To qualify for consideration of provincial approval, the following requirements must be demonstrated to the provincial regulatory agency:

- 1. Aircraft used in the application of this product must have been configured and calibrated to acceptable standards at a recognized calibration (patternation) clinic within 20 months of the date of application. The spray system must not have been subjected to major changes (new nozzles, booms or configurations) since the calibration, and must meet critical drift management standards e.g. maximum boom width 65% of wing span; nozzle type, size and orientation to minimize drift and deliver droplet size VMD in the coarse (400 600 microns) or very coarse (600 1000 microns) range.
- 2. Aircraft used in the application of this product must carry a minimum of \$25,000 drift insurance in addition to any provincial requirements for general comprehensive insurance coverage.
- 3. Applicators using this product must have successfully completed a ROUNDUP herbicide aerial application training course provided by Monsanto Canada Inc.
- 4. Aerial application services applying this product must employ on staff at least one pilot applicator with at least 250 hours of actual aerial application time and a minimum of 100 hours within the last 24 month period. All pilots who do not meet the minimum experience standard must work under the *direct daily supervision* of a qualified pilot.

DIRECTIONS FOR USE

MON 78460 Liquid Herbicide may be applied with aerial application equipment for control of quackgrass, Canada thistle, common milkweed, toadflax and dandelion, and season-long control of perennial sow thistle. MON 78460 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 and soybeans. **DO NOT apply to any 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.

MON 78460 Liquid Herbicide should be applied at 1.67 L/ha in 20 – 50 L/ha of clean water with aerial application equipment. Apply only when the crop has 30% of less grain moisture content. This stage typically occurs 7 to 14 days before harvest. Consult the table "Guidelines for Timing of Preharvest Applications" (Section 9.9.1) 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 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.

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 CONIFEROUS

Ash Fir

Fraxinus spp. Abies spp.

Caragana Juniper

Caragana spp. Juniperus spp.

Cherry Pine

Prunus spp. Pinus spp.

Elm Spruce

Ulmus spp. Picea spp.

Lilac Yew

Syringa spp. Taxus spp.

Maple

Acer spp.

Mountain Ash

Sorbus spp.

Poplar

Populus spp.

Russian Olive

Elaeagnus spp.

Willow

Salix 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, BERRY AND OTHER 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 orchard guns, or with wiper applicator equipment (orchards, vineyards, cranberry and strawberry only). See "Mixing and Application Equipment Information" (section 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 preemergent weed control. For subsequent weed control, follow a program using residual herbicides or use repeated applications of this product. Do not apply more than 23 litres 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 mowed, grazed or cut and have not been allowed to regrow to the recommended stage for treatment.

WEED CONTROL IN TREE, VINE, BERRY AND OTHER CROPS

CROP	RATE (L/ha)	PRE- HARVEST INTERVAL (days)	MAX. APPL. PER YEAR	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	1.5 - 8	30	3	Annual and perennial weeds	
Apples, Grapes	Tank Mix $1.5 - 8$ + Simazine $2.0 - 4.5 \text{ kg}$ ai/ha	-	1	Annual and perennial weeds	 Will provide season-long preemergent control. Do not apply to coarse, sandy or gravelly soil. Use according to the more restrictive label direction for each product in the mix.

CROP	RATE (L/ha)	PRE- HARVEST INTERVAL (days)	MAX. APPL. PER YEAR	WEEDS CONTROLLED	COMMENTS (Refer to sections 7.1 and 8.1 for specific rates for weed control) • DO NOT apply to orchards or vineyards that have been established less than 1 or 3 years, respectively. • Simazine rate is equivalent to 2.25 – 5.0 kg/ha Princep® Nine-
					T®, or 4.0 – 9.0 kg/ha Simadex®
Grapes	1.5 - 8	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	1.87 – 3.73	30	1	quackgrass	• Use as a directed spray, with no more than 275 kPa pressure.
Lowbush blueberry	0.67 – 1.34% solution (spot application)	Apply in non-bearing year only	1	Woody brush (section 6.3)	 Apply as a directed spray in mid-summer of the vegetative (non-bearing) year. See section 9.3 for instructions on spot treatments.
Filberts, Hazelnut (established plantations)	1.5 – 2.33	14	1	Annual Weeds	• Use as a directed spray, with no more than 275 kPa pressure.
Walnut, Chestnut, Japanese Heartnut	1.5 - 8	-	2	Annual and perennial weeds	 Apply late spring and fall, postharvest but prior to a killing frost. Apply in 200 – 300 L water as a directed spray, using no more

CROP	RATE	PRE-	MAX.	WEEDS	COMMENTS
	(L/ha)	HARVEST	APPL.	CONTROLLED	(Refer to sections 7.1
		INTERVAL	PER		and 8.1 for specific rates
		(days)	YEAR		for weed control)
					than 275 kPa pressure.
					• Apply alternatively as a 1.34% wiper solution
					(see "Wiper
					Applications" section
					9.12).
Cranberry	13.4%	30	1	Annual and	• Apply using wick or
	solution (0.62			perennial weeds	wiper applicators
	L MON				(section 9.12).
	78460 Liquid				
	Herbicide +				
	4L water)				
Strawberry	0.67 - 1.34%	30	1	Emerged	• Apply when weeds
	solution (spot			perennial weeds	are at a susceptible
	application) 22% solution				growth stage (see
	(wiper				sections 8.1 and 8.2).
	application)				• See section 9.3 for
	application)				instructions on spot treatments.
					• See section 9.12 for
					instructions on wiper
					applications.
Sugar Beets	0.67 - 1.34%	Treated	1	Dodder species	• Apply when dodder is
	solution (spot	crop MUST		_	vigorously growing but
	application)	NOT be			before flowering.
		harvested			• See section 9.3 for
					instructions on spot
					treatments.
Asparagus	0.83 - 1.67	7	1	Fall seeded	• Apply in spring
				ryegrass	before emergence of
					crop shoots.

Princep and Nine-T are registered trademarks of Syngenta Crop Protection Canada Ltd. Simadex is a registered trademark of Aventis CropScience UK Limited.

NOTE TO BUYER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR SPECIAL USE APPLICATIONS: (NORTH AMERICAN GINSENG).

The DIRECTIONS FOR USE for this product described on the label were developed by persons other than Monsanto Canada and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Monsanto Canada itself

makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crop listed on this label.

Accordingly, the Buyer and User assume all liability arising, and agree to hold Monsanto Canada harmless from any claims based on efficacy and/or phytotoxicity in connection with the uses described on this label.

DIRECTIONS FOR USE

ALWAYS REFER TO THE PRODUCT LABEL FOR FURTHER INFORMATION ON WEEDS CONTROLLED, APPLICATION DIRECTIONS, AND USE PRECAUTIONS.

NORTH AMERICAN GINSENG

New Gardens (British Columbia only): Apply this product in the fall after seeding but before freeze-up in new gardens only to control volunteer cereals. Apply when weeds are at the growth stages listed on the product label. Use a single application of 1.67 litres per hectare in 50 to 100 litres water per hectare. DO NOT USE A FALL APPLICATION IN ESTABLISHED/EXISTING GARDENS.

Existing/Established Gardens: Apply this product in the spring before the crop has emerged above the soil. Apply when weeds are at the growth stages described in the product label. A maximum of two 1.67 litres per hectare applications in 50 to 100 litres water per hectare may be made in a season. DO NOT USE A FALL APPLICATION IN ESTABLISHED/EXISTING GARDENS.

9.12 SELECTIVE EQUIPMENT

WIPER APPLICATORS

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 strawberries. 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 and 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 centimetres 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 centimetres 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 (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 kilometres per hour. 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 0.33 to 0.67 litres of this product in 10 litres water to prepare a 3 to 7 percent solution. Roller speed should be maintained at 50 to 150 RPM.

For Wick or other Wiper Applicators – Mix 0.57 litres of this product in 2 litres of water to prepare a 22 percent solution.

10.0 NON-CROPLAND USES

INDUSTRIAL, RIGHTS-OF-WAY, RECREATIONAL, AND PUBLIC AREAS.

ALWAYS READ PRECAUTIONARY STATEMENTS, 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 MON 78460 LIQUID HERBICIDE

	GRO	UND APPL	ICATION**	
	BOOM APPLICATION			
WEEDS	RATE* (L/ha)	WATER VOL.* (L/ha)	HAND HELD HIGH VOLUME APPLICATIO	COMMENTS
			N % SOLUTION	
Annual grasses	1.5-2.33	50-100	0.67	Actively growing
and broadleaves				weeds.
Perennial				Actively growing
Weeds				weeds.
Quackgrass	1.67	50-300	0.67	• Add 0.5% v/v of a

	GRO	UND APPL	ICATION**	
	ВО			
	APPLICATION			
WEEDS	RATE*	WATER	HAND HELD	COMMENTS
	(L/ha)	VOL.*	HIGH	
		(L/ha)	VOLUME	
			APPLICATIO N %	
			SOLUTION	
	3.17-4.67	50-300	1.34	recommended surfactant
	3.17 1.07	20 200	1.5	when using water
Canada Thistle	3.17-4.67	100-300	1.34	volumes greater than 150
(bud stage)				L (see section 8.2.2).
				Higher rate for long
Purple	4	300-600	0.67-1.34 (or	term control and for
Loosestrife			22% for wiper	heavy infestations.
			application)	• See section 10.2.3 for
Other Perennials	167.0	100-300	1.34	instructions on purple
Other Perennials	4.67-8	100-300	1.34	loosestrife applications.
				• Summer through fall is
Brush and				optimum.
Trees				
Birch, Cherry,	2-4	100-300	0.67-1.34	Summer through early
Poplar, Western	2 '	100 500	0.07 1.51	fall (see section 10.2).
Snowberry,				Tan (see seed on 10.2).
Willow				
Maple,	4	100-300	1.34	• Late summer through
Raspberry/				fall.
Salmonberry,				• Fall is optimum.
Alder				
Turf Renovation				
Annual and	1.67-8	100-300	0.67-1.34	• Use higher end of the
perennial weeds	1.07 0	100 500	0.07 1.54	rate range for perennials.
Roadside				Tate range for perennials.
Vegetation				
(1-2m wide	1) 0.5 –	25-150	-	• Refer to "Annual Weed
along shoulders)	0.67 +			Control" table (section
Annual weeds	1.25 –			7.1) for appropriate
(refer to tank mix	2.5 L			product rate for specific
sections on	DyCleer			weeds.
product labels	®480 or			• For 2,4-D amine
for specific	2) 0.5 –			formulations with a
weeds	0.67 +			different guarantee,
controlled)	0.30 L			adjust the rate

GRO	UND APPL	ICATION**	
BOOM APPLICATION			
RATE* (L/ha)	WATER VOL.* (L/ha)	HAND HELD HIGH VOLUME APPLICATIO N % SOLUTION	COMMENTS
DyCleer 480 + 1.2 L 2,4-D amine 500			accordingly. • No application to standing water.
1.67 – 8 + a) 2.5 - 5.6 kg simazine 80W or + b) 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.
	BOC APPLIC RATE* (L/ha) DyCleer 480 + 1.2 L 2,4-D amine 500 1.67 - 8 + a) 2.5 - 5.6 kg simazine 80W or + b) 4.0 - 9.0 L Simadex	BOOM APPLICATION RATE* (L/ha) DyCleer 480 + 1.2 L 2,4-D amine 500 1.67 - 8	APPLICATION RATE*

^{*} For more information on rates, water volumes and application, refer to "Annual and Perennial Weed Control" (sections 7.1 and 8.1, respectively).

DyCleer is a registered trademark of Syngenta Participations AG. Simadex is a registered trademark of Aventis CropScience UK Limited.

10.2 APPLICATION INFORMATION FOR NON-CROPLAND USES

FOLIAR APPLICATIONS

^{**} Aerial application may be used for brush and tree control in industrial rights-of-way only. See "Aerial Applications" (section 10.2.2).

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 to 45 days for symptoms to develop on target species. Late season application may be made to species that have some autumn colors 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 TURF GRASSES, 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 to 4 litres of this product per hectare. Use ground boom or boomless, or mist blower equipment, or apply as a 0.67 to 1.34 percent 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 litres per hectare 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 run-off. 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):

Refer to the general guidelines for aerial application in Sections 5.2 and 5.3 as well as specific application instructions in this section.

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

Volume: Apply the recommended rate in a minimum spray volume 30-100 litres per hectare.

For woody brush and trees, apply 2 to 4 litres of this product per hectare. Use the 4 litres 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 litres of water per hectare. As density of vegetation increases, spray volume should be

increased within the recommended range to ensure complete coverage. (*suppression only).

10.2.3 PURPLE LOOSESTRIFE CONTROL

- DO NOT TREAT PLANTS OVER OPEN WATER. MON 78460 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 non-crop 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 "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 "Weeds Controlled" (sections 7.1 and 8.1, respectively). 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 turfgrass 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 0.33 millilitres (either undiluted or 1:1 with water) per 5 centimetres 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 centimetres may not be acceptable at this rate.

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

A partial list of species controlled includes:

Alder Hemlock Tsuga spp. Alnus spp. Birch Maple* Betula spp. Acer spp. Cedar Pine Thuja spp. Pinus spp. Cherry **Poplar** Prunus spp. Populus spp. Douglas Fir Willow Pseudotsuga spp. Salix spp.

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 0.33 millilitres product for every 5 centimetres DBH. Do not cover the remaining area nor any exposed roots, as this product does not penetrate bark well.

^{*} This treatment may only provide suppression of Bigleaf Maple. Late fall applications will provide optimum suppression of Bigleaf Maple.

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 to 2 years after treatment.

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

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