

GROUP	9	HERBICIDE
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GLYPHOSATE TRIMESIUM 480 Herbicide Liquid

HERBICIDE

AGRICULTURAL & INDUSTRIAL

For Control of Annual and Perennial Grasses and Broadleaf Weeds

GUARANTEE:

Glyphosate 480 g/L
(present as 480 g/L trimethylsulfonium salt)

**READ THE LABEL AND BOOKLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN**

WARNING



POISON

**CAUTION: EYE IRRITANT
POTENTIAL SKIN SENSITIZER**

REGISTRATION NO. **25273**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **10 L 55L 100L 110 L BULK**

Syngenta Canada, Inc.
140 Research Lane, Research Park
Guelph, ON
N1G 4Z3
Telephone: 1-877-964-3682

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

FIRST AID

IN CASE OF POISONING, contact a physician or a poison control centre immediately. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

If swallowed, call a poison control centre or doctor **IMMEDIATELY** for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

If in eyes, hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

If on skin or clothing, take off contaminated clothing. Rinse skin **IMMEDIATELY** with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

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

TOXICOLOGICAL INFORMATION

Treat symptomatically if ingested or in contact with eyes or skin. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

1. When handling the concentrate:

- * Wear a long sleeve shirt & long pants or coveralls, chemical resistant gloves and eye protection.
- * Wash splashes from skin and eyes immediately with plenty of water.

2. When spraying:

- * Wear a long sleeve shirt and long pants or coveralls.
- * Avoid working in spray mist.
- * Avoid all drift or contact with other vegetation. See ENVIRONMENTAL HAZARDS

3. After spraying:

- * Wash hands and shower thoroughly.

4. As with all agrochemical products:

- * When using, do not eat, drink or smoke.
- * Wash hands and exposed skin with soap and water thoroughly before eating, drinking or smoking.
- * Wash out container thoroughly, empty washings into spray tank and dispose of safely. See DISPOSAL statement.
- * Keep away from food, drink and animal feeding stuffs.
- * Do not contaminate ponds, waterways or ditches with chemical. See ENVIRONMENTAL HAZARDS.
- * Store in original container, tightly closed, in a safe place.

Do not re-enter treated area within 12 hours of treatment. Workers who must enter fields within this time period should wear a long sleeved shirt, long pants and chemical resistant gloves.

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., visit CropLife Canada's website at www.croplife.ca.

PHYSICAL AND CHEMICAL HAZARDS

Spray solutions of GLYPHOSATE TRIMESIUM 480 Herbicide should be mixed, stored and applied only in stainless steel, aluminium, fibreglass, plastic and plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY GLYPHOSATE TRIMESIUM 480 OR SPRAY SOLUTIONS OF GLYPHOSATE TRIMESIUM 480 IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. GLYPHOSATE TRIMESIUM 480 or spray solutions of GLYPHOSATE TRIMESIUM 480 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.

ENVIRONMENTAL HAZARDS

HARMFUL to aquatic organisms. Avoid direct application to any body of water populated with fish or used for domestic purposes. Do not use in areas where adverse impact on domestic water or aquatic species is likely. Do not contaminate water by disposal of waste or cleaning of equipment. Avoid all drift to or contact with other vegetation for which treatment is not intended as damage or destruction may occur. Do not apply using aerial spray equipment, except where indicated under the "AERIAL APPLICATION" and "RESTRICTED USE" section in the attached booklet.

STORAGE

Always store in original container with top closed. Avoid contamination of seed, feed and foodstuffs. Product is not affected by freezing.

SPILL CLEANUP

Observe safety and protective measures as noted under PRECAUTIONS.

Liquid spills on floor or other impervious surfaces should be contained or diked, and should be absorbed with attapulgite, bentonite or other absorbent clays (kitty litter, etc.) Collect contaminated absorbent, place in plastic lined metal drum and dispose of in accordance with instructions provided under DISPOSAL. Thoroughly scrub floor or other impervious surfaces with a strong industrial type detergent solution and rinse with water.

Liquid spills that soak into the ground should be dug-up, placed in **plastic-lined metal** drums and disposed of in accordance with instructions provided under DISPOSAL.

Leaking containers should be separated from non-leakers and either the container or its contents transferred to a **plastic-lined drum** or other non-leaking container and disposed of by use according to label directions or in accordance with instructions provided under DISPOSAL. Any recovered spilled liquid should be similarly collected and disposed of.

DECONTAMINATION AND DISPOSAL

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

CONTAINER DISPOSAL:

FOR DISPOSAL OF PLASTIC JUGS:

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.

FOR 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 use this container for any other purpose.

If the container is not being refilled, refer to the section "FOR DISPOSAL OF PLASTIC JUGS".

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,
CALL 1-800-327-8633 (FASTMED)***

GROUP 9 HERBICIDE

**GLYPHOSATE TRIMESIUM 480 Herbicide
Liquid**

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CALL 1-800-327-8633 (FASTMED)***

PRODUCT INFORMATION

Do not apply this product using aerial equipment except where indicated under "AERIAL APPLICATION" and "RESTRICTED USE":

GLYPHOSATE TRIMESIUM 480 is a water soluble herbicide for **non-selective** weed control:

In cropping systems - before planting of all crops, pre-harvest application in wheat, barley, oats, flax (including low linolenic acid varieties), lentils, canola, peas, soybeans and dry beans and post harvest stubble treatment.

In pasture renovation;

In forage, legume and grass establishment;

In minimum tillage systems;

In tree, vine and berry crops; Apple, Cherry, Peach, Apricot, Pear, Plum, Grapes, blueberries, nuts, strawberries, cranberries and sugar beets.

In non-agricultural areas such as:

- industrial, recreational, rights of way, and public areas,
- tree plantings
- turfgrass
- Silviculture and woodlot management

GLYPHOSATE TRIMESIUM 480 Herbicide is to be applied as a foliage spray for the control 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.

GLYPHOSATE TRIMESIUM 480 Herbicide moves through the plant from the point of foliage contact 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.

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

DIRECTIONS FOR USE

GENERAL USE PRECAUTIONS

Reduced results may occur if water containing soil is used, such as water from ponds and ditches. Poor control may also occur when treating weeds heavily covered with dust.

Avoid contact with desirable vegetation by direct application or spray drift as destruction may result.

Avoid drift or overspray to non-target vegetation and wildlife habitats.

Do not use in greenhouses.

Mix only the amount of solution to be used during a one day period, as reduced activity may result from use of leftover solution.

Drain and clean application equipment immediately after using this product.

Do not contaminate water sources by disposal of waste or cleaning of equipment.

Overspray or drift to important wildlife habitats such as bodies of water, wetlands (eg sloughs), shelterbelts, woodlots and other cover on the edge 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.

CAUTION: Do not graze the treated crops or cut for hay; sufficient data are not available to support such use.

GENERAL USE INFORMATION**Weeds Controlled**

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

ANNUAL WEEDS**Annual Grasses**

Barnyard grass	<i>Echinochloa crusgali</i>
Bluegrass (annual)	<i>Poa annua</i>
Crab Grass	<i>Digitaria sanguinalis</i>
Downy Brome	<i>Bromus tectorum</i>
Giant Foxtail	<i>Setaria faberii</i>
Green Foxtail	<i>Setaria viridis</i>
Persian Darnel	<i>Loium persicum</i>
Rye grass, tame	<i>Secale cereale</i>
Volunteer Wheat	<i>Triticum spp.</i>
Volunteer Corn	<i>Zea Mays</i>
Volunteer Barley	<i>Hordeum spp.</i>
Wild Oats	<i>Avena fatua</i>
Yellow foxtail	<i>Setaria glauca</i>

Annual Broadleaf Weeds

Chickweed, common	<i>Stellaria media</i>
Dodder	<i>Cucuta spp</i>
Fleabane (Canada)	<i>Erigeron canadensis</i>
Flixweed	<i>Descurania sophia</i>
Hairy galinsoga	<i>Galinsoga ciliata</i>
Hemp nettle	<i>Galeopsis tetrahit</i>
Kochia	<i>Kochia scoparia</i>
Lady's-Thumb	<i>Polygonum persicaria</i>
Lamb's-Quarters (common)	<i>Chenopodium album</i>

Low cudweed	<i>Gnaphalium uliginosum</i>
Narrow-leaved Vetch	<i>Vicia angustifolia</i>
Narrow-leaved Hawk's Beard	<i>Crepis tectorum</i>
Nightshade, black	<i>Solanum ptycanthum</i>
Prickly Lettuce	<i>Lactuca scariola</i>
Prostrate knotweed	<i>Polygonum aviculare</i>
Ragweed (common)	<i>Ambrosia artemisiifolia</i>
Redroot Pigweed	<i>Amaranthus retroflexus</i>
Russian Thistle	<i>Salsola pestifer</i>
Shepherd's Purse	<i>Capsella bursa-pastoris</i>
Sowthistle (annual)	<i>Sonchus oleraceus</i>
Stinkweed	<i>Thlaspi arvense</i>
Volunteer Flax	<i>Linaria spp</i>
Volunteer Canola	<i>Brassica spp</i>
Wild Buckwheat	<i>Polygonum convolvulus</i>
Wild Mustard	<i>Sinapsis arvensis</i>

PERENNIAL WEEDS

Perennial Grasses/Sedges

Blue Grass (Canada)	<i>Poa compressa</i>
Blue Grass (Kentucky)	<i>Poa pratensis</i>
Brome Grass (smooth)	<i>Bromus inermis</i>
Cattail (common)	<i>Typha latifolia</i>
Foxtail Barley	<i>Hordeum jubatum</i>
Orchard grass	<i>Dactylis glomerata</i>
Quackgrass	<i>Agropyron repens</i>
Redtop, common	<i>Agrostis alba</i>
Wirestemmed mulhy	<i>Muhlenbergia frondosa</i>
Yellow Nutsedge	<i>Cyperus esculentus</i>

Perennial Broadleaved Weeds

Alfalfa	<i>Medicago sativa</i>
Chickweed mouse-eared	<i>Cerastium fontanum</i>
Clover, white	<i>Trifolium repens</i>
Colt's foot	<i>Tussilago farfara</i>
Cottontop	<i>Eriophorum chamissionis</i>
Curled Dock	<i>Rumex crispus</i>
Dandelion, common	<i>Taraxacum officinale</i>
Field Bindweed	<i>Convolvulus arvensis</i>
Goldenrod, canada	<i>Solidago canadensis</i>
Hemp Dogbane	<i>Apocynum cannabinum</i>
Hoary Cress	<i>Cardaria draba</i>
Horsetail	<i>Equisetum arvense</i>
Jerusalem artichoke	<i>Helianthus tuberosis</i>
Knotweed (Japanese)	<i>Polygonum cuspidatum</i>
Milkweed (common)	<i>Asclepias syriaca</i>
Plantain, broadleaf	<i>Plantago major</i>
Poison Ivy	<i>Rhus radicans</i>
Round-leaved mallow	<i>Malva pusilla</i>
Sheep's sorrel	<i>Rumex acetosell</i>
Smooth bedstraw	<i>Galium mollugo</i>

Sow Thistle (perennial)	<i>Sonchus arvensis</i>
Stitchwort grassleaved	<i>Stellaria graminea</i>
Stork's bill	<i>Erodium cicutarium</i>
Thistle (Canada)	<i>Cirsium arvense</i>
Toad Flax	<i>Linaria vulgaris</i>
Wild grape	<i>Vitis spp.</i>
Wild carrot	<i>Daucus carota</i>
Wormwood (Absinth)	<i>Artemisia absinthium</i>

WOODY BRUSH AND TREES

Alder	<i>Alnus spp.</i>
Birch	<i>Betula spp.</i>
Broadleaved meadowsweet*	<i>Spiraea latifolia</i>
Canadian rhododendron*	<i>Rhododendron canadenses</i>
Cedar	<i>Thuja spp.</i>
Cherry	<i>Prunus spp.</i>
Douglas Fir	<i>Pseudotsuga spp.</i>
Hemlock	<i>Tsuga spp.</i>
Maple	<i>Acer spp.</i>
Mountain-fly honeysuckle*	<i>Lonicera villosa</i>
Pine	<i>Pinus spp.</i>
Poplar	<i>Populus spp.</i>
Raspberry/Salmonberry	<i>Rubus spp.</i>
Sheep laurel*	<i>Kalmia angustifolia</i>
Snowberry (Western)	<i>Symphoricarpos occidentalis</i>
Sweet fern*	<i>Comptonia peregrina</i>
Willow**	<i>Salix spp.</i>
Withrod**	<i>Viburnum cassinoides</i>

* Apply as a 1 – 2 percent solution

** Suppression Only

AGRICULTURAL USES

The following are use situations for GLYPHOSATE TRIMESIUM 480 Herbicide. Information on the equipment selected to apply GLYPHOSATE TRIMESIUM 480 Herbicide can be found in the APPLICATION EQUIPMENT section. Use rates can then be selected from the GLYPHOSATE TRIMESIUM 480 Herbicide USE RATES section.

The type of vegetation present and the use situation will dictate the choice of application equipment.

AGRICULTURAL USES

Prior to Planting (all crops): This product may be applied prior to planting all crops for control of emerged weeds listed on this label. Apply **before** seeding or transplanting crops.

Summerfallow

This product, or labelled tank mixes may be applied in summerfallow to control weeds listed on this label.

Post Harvest Stubble Treatment

This product, or labelled tank mixes may be applied to control weeds listed on this label.

Fall Stubble

This product, or labelled tank mixes may be applied in fall stubble to control weeds listed on this label.

Spot Treatments (In-crop)

May be used to control perennial weeds in barley, corn, oats, soybeans, wheat, strawberry, blueberry, forage grasses and legumes including seed production. Treatments may be made up to heading of small grain, initial pod set on soybeans, silking of corn, and emergence of seed heads.

The crop in the treated area will be destroyed. Avoid drift beyond the treated area. **DO NOT APPLY IF CROP GROWTH HAS ADVANCED BEYOND SEED SET. DO NOT GRAZE OR HARVEST TREATED AREAS IN FORAGES.** (See General Use Precautions section for more information).

Application can be made using a boom sprayer, knapsack or high volume equipment (See APPLICATION EQUIPMENT).

Minimum and Zero Tillage Systems (All field crops including cereals, oilseeds, pulses, forages and corn)

Apply prior to or after seeding but before crop emerges for control of emerged weeds.

DO NOT APPLY AFTER CROP EMERGENCE.

Since GLYPHOSATE TRIMESIUM 480 does not provide residual weed control, application too far in advance of seeding will allow weeds to emerge between application and crop emergence.

MINIMUM AND ZERO TILLAGE TANK MIXTURES:

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

GLYPHOSATE TRIMESIUM 480 plus PARDNER

GLYPHOSATE TRIMESIUM 480 Herbicide plus bromoxynil (PARDNER) can be applied prior to seeding or after seeding, but before crop emergence in wheat, barley and oats.

GLYPHOSATE TRIMESIUM 480 plus BANVEL

For control of Canada thistle and perennial sow thistle in summerfallow or in post harvest stubble, apply 1.7 L/ha of GLYPHOSATE TRIMESIUM 480 plus 1.25 L/ha BANVEL in 100-200 L/ha of clean water. An adjuvant such as FRIGATE or ENHANCE must be added for use with this tank mixture.

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

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

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

GLYPHOSATE TRIMESIUM 480 plus PURSUIT

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

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, BUT NOT EARLIER THAN 120 DAYS AFTER THE APPLICATION.

DO NOT APPLY AFTER CROP EMERGENCE.

GLYPHOSATE TRIMESIUM 480 plus Metribuzin (SENCOR 75DF)

For burndown and residual control of selected annual weeds in soybeans taller than 4 cm, apply 1.25 L/ha of GLYPHOSATE TRIMESIUM 480 in tank mix with SENCOR 75 DF as a preplant surface (up to 30 days before planting) or pre-emergence application. Application must be made before crop emergence.

GLYPHOSATE TRIMESIUM 480 plus DUAL 960E IN SOYBEANS OR CORN

For burndown and residual control of selected annual weeds in soybeans and corn.

In soybeans, apply GLYPHOSATE TRIMESIUM 480 in tank mix with DUAL 960E at 1.75-2.75 L/ha as a preplant surface (up to 30 days before planting) or pre-emergence application.

In corn, apply GLYPHOSATE TRIMESIUM 480 in tank mix with DUAL 960E at 2.0-2.75 L/ha as a preplant surface (up to 30 days before planting) or pre-emergence application.

NOTE: The use on corn is for EASTERN CANADA ONLY.

Application must be made before crop emergence.

Perennial weeds such as quack grass may not be controlled with lower rates of GLYPHOSATE TRIMESIUM 480. Use higher rates of GLYPHOSATE TRIMESIUM 480 if perennial weeds are present.

GLYPHOSATE TRIMESIUM 480 plus BROADSTRIKE DUAL

BROADSTRIKE DUAL at 2.4 L/ha may be tank mixed with GLYPHOSATE TRIMESIUM 480 at 2.5 L/ha for control of existing annual weeds and certain perennial weeds including quack grass. This tank mix may be applied surface pre-plant or pre-emergence in minimum till or no-till conditions. When mixing, add the BROADSTRIKE DUAL component first.

GLYPHOSATE-TRIMESIUM 480 plus FRONTIER[†]

For burndown and residual control of selected annual weeds apply GLYPHOSATE-TRIMESIUM 480 Herbicide plus FRONTIER after seeding but before crop emergence on corn and soybeans. For more information on weeds controlled and rates follow the label directions for GLYPHOSATE-TRIMESIUM 480 and FRONTIER.

GLYPHOSATE-TRIMESIUM 480 plus DUAL[®] II

For burndown and residual control of selected annual weeds apply GLYPHOSATE-TRIMESIUM 480 Herbicide plus DUAL II after seeding but before crop emergence on corn and soybeans. For more information on weeds controlled and rates follow the label directions for GLYPHOSATE-TRIMESIUM 480 and DUAL II.

GLYPHOSATE-TRIMESIUM 480 plus FIELDSTAR[†]

For burndown and residual control of selected annual weeds apply GLYPHOSATE-TRIMESIUM 480 Herbicide plus FIELDSTAR after seeding but before crop emergence on corn. For more application details follow the label directions for GLYPHOSATE-TRIMESIUM 480 and FIELDSTAR.

GLYPHOSATE-TRIMESIUM 480 plus Linuron

For burndown and residual control of selected annual weeds apply GLYPHOSATE-TRIMESIUM 480 Herbicide plus linuron after seeding but before crop emergence on corn and soybeans. For more information on weeds controlled and rates follow the label directions for GLYPHOSATE-TRIMESIUM 480 and linuron products (AFOLAN[†] F, LINURON[†] 480, LOROX[†] DF, LOROX DF TOSS'N GO, LOROX L).

GLYPHOSATE-TRIMESIUM 480 plus PRIMEXTRA[®]

For burndown and residual control of selected annual weeds apply GLYPHOSATE-TRIMESIUM 480 Herbicide plus PRIMEXTRA after seeding but before crop emergence on corn. For more application details follow the label directions for GLYPHOSATE-TRIMESIUM 480 and PRIMEXTRA.

GLYPHOSATE-TRIMESIUM 480 plus PROWL[†]

For burndown and residual control of selected annual weeds apply GLYPHOSATE-TRIMESIUM 480 Herbicide plus PROWL after seeding but before crop emergence on corn. For more information on weeds controlled and rates follow the label directions for GLYPHOSATE-TRIMESIUM 480 and PROWL.

Forage Legumes & Grasses

To control emerged vegetation prior to emergence of legumes and grasses. If legumes and grasses are to be underseeded with a cover crop, GLYPHOSATE TRIMESIUM 480 must be applied prior to planting any cover crop.

Pasture Renovation

To control or suppress existing vegetation for zero-tillage seeding of legumes into established sod for renovation. Vegetation should be at least 20 cm in height with maximum number of seedlings and shoots emerged. Apply before or after seeding but before crop emerges.

Forage Seed Productions (For spot treatment)

To control perennial weeds such as quack grass and Canada thistle in seed fields. Apply to weeds at least 20 to 25 cm in height and before emergence of seed head. The crop in the treated area will be destroyed. Avoid drift outside of treated area.

**PRE-HARVEST USE ON WHEAT, BARLEY, OATS, FLAX (including low linolenic acid varieties), LENTILS, CANOLA, PEAS, SOYBEANS, DRY BEANS
GROUND OR AERIAL APPLICATION**

**AERIAL PRE-HARVEST APPLICATION IS A RESTRICTED USE, FOLLOW DIRECTIONS IN
“RESTRICTED USE - PREHARVEST AERIAL APPLICATION FOR SALE FOR USE IN THE
PRAIRIE PROVINCES ONLY (including PEACE RIVER REGION OF B.C.)”**

For control of quack grass, Canada thistle, common milkweed and season long control of perennial sow thistle. GLYPHOSATE-TRIMESIUM 480 Herbicide can be applied prior to harvest of wheat, barley, oats, flax (including low linolenic acid varieties), lentils, canola, peas, soybeans, dry beans. 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.

GLYPHOSATE-TRIMESIUM 480 Herbicide should be applied pre-harvest at 2.50 L/ha in 50 to 100 L/ha of clean water by ground equipment only. Apply only when the crop has 30% or less grain moisture content. This stage typically occurs 7 to 14 days before harvest. Consult the following table for visual indicators of this stage in each crop. For the best weed control results quack grass 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. 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.

Over spray or drift to important wildlife habitats such as bodies of water, wetlands (eg. sloughs), shelter belts, woodlots and other cover on the edges of fields frequented by wildlife, should be avoided.

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.

DO NOT APPLY BY AIRCRAFT.

TABLE 1: Guidelines for Timing of Pre-harvest Applications**VISUAL SYMPTOMS**

<u>CROP(S)</u>	<u>(grain moisture is less than 30%)</u>
Wheat	Hard dough stage; thumbnail impression remains on the seed.
Barley	Hard dough stage; thumbnail impression remains on the seed.
Oats	Hard dough stage; thumbnail impression remains on the seed.
Flax (including low linolenic acid varieties)	Majority (75-80%) of bolls are brown
Lentils	Lowermost pods (bottom 15%) are brown and rattle.
Canola	Pods are green to yellow; most seeds are yellow to brown.
Peas	Majority (75%-80%) of pods are brown.
Soybeans	Stems are green to brown in colour, pod tissue is dry and brown in appearance: 80%-90% leaf drop.
Dry Beans	Stems are green to brown in colour; pods are mature (yellow to brown in colour), 80%-90% leaf drop (original leaves).

Tree, Vine and Berry Crops

To control annual and perennial weeds in established vineyards, or orchards, or for site preparation prior to transplanting tree and vine crops.

Use boom sprayer, shielded sprayers, hand held guns, or wiper, roller or wick applicators (The latter three are for use only in orchards or vineyards).

Repeat applications may be necessary as new seedlings emerge or underground parts of untreated weeds emerge.

DO NOT APPLY MORE THAN 35 L OF GLYPHOSATE TRIMESIUM 480 HERBICIDE PER YEAR.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF GLYPHOSATE TRIMESIUM 480 HERBICIDE SOLUTION, SPRAY DRIFT, OR MIST WITH FOLIAGE OR GREEN BARK OF TRUNK, BRANCHES, SUCKERS, FRUIT, OR OTHER PARTS OF TREES OR VINES. CONTACT OF GLYPHOSATE TRIMESIUM 480 WITH ANY OTHER THAN MATURED BROWN BARK CAN RESULT IN SERIOUS CROP DAMAGE.

Allow mowed weeds time to re-grow to recommended growth stage for treatment.

WEED CONTROL IN TREE, VINE and BERRY CROPS					
Crop	Rate (L/ha)	Pre-Harvest Interval (days)	Max. App. per year	Weed Controlled	Comments
Apples, Apricot, Cherry (Sweet/ Sour) Peaches, Pears, Plums	2.25-12 (directed spray)	30	3	Annual and perennial weeds	Apply as directed spray with no more than 275 kPa.

WEED CONTROL IN TREE, VINE and BERRY CROPS					
Crop	Rate (L/ha)	Pre-Harvest Interval (days)	Max. App. per year	Weed Controlled	Comments
Grapes	2.25-12 (directed spray)	14	3	Annual and perennial weeds	Remove all sucker growth from the spray zone before spraying, except for the Concord variety of grape. Suckering should be conducted within 2 weeks prior to application. Do not apply to vines which have been established less than 3 years.
Highbush (cultivated) Blueberry	2.8-5.6 (directed spray)	30	1	Quack-grass	Use as a directed spray, with no more than 275 kPa pressure.
Lowbush Blueberry	1-2% solution (spot treatment)	Apply in non-bearing year only	1	Wood brush	Apply as directed spray in mid-summer of the vegetative (non-bearing) year. See Agricultural Use section in booklet for instructions on spot treatments.
Filberts Hazelnut (established plantations)	2.25-3.5 (directed spray)	14	-	Annual weeds	Use as a directed spray with no more than 275 kPa pressure.
Walnut Chestnut Japanese heartnut	2.25-12 directed spray	-	2	Annual and perennial weeds	Apply late spring and fall post-harvest but prior to a killing frost. Apply in 200-300 L water as a directed spray using no more than 275 kPa pressure. Apply alternatively as a 2% wiper solution. See Application equipment section in booklet for instructions on wiper application.
Cranberry	20% Solution (1 L GLYPHOSATE TRIMESIUM 480 + 4 L water)	50	1	Annual and perennial weeds	Apply using wick or wiper applicators. See Application equipment section for instructions on wiper applications.
Strawberry	1-2% solution (spot treatment directed spray) 33% solution (wiper application)	30	1	Emerged perennial weeds	Apply when weeds are at a susceptible growth stage. See Agricultural Use section for instructions on spot treatments. See Application Equipment section for instructions on wiper applications.
Sugar beets	1-2% solution (spot treatment)	Treated crop MUST NOT be harvested	1	Dodder species	Apply when dodder is vigorously growing but before flowering. See Agricultural Use section for instructions on spot treatments.

INDUSTRIAL USES

Turfgrass

To control most existing vegetation prior to turfgrass establishment or renovation. DO NOT DISTURB SOIL OR UNDERGROUND PLANT PARTS BEFORE TREATMENT.

Apply this product at rates specified in the "Annual Weed Control" and "Perennial Weed Control" Tables.

Under mowed turfgrass management, omit at least one regular mowing to allow sufficient growth for good spray interception and translocation.

Tillage or renovation techniques should be delayed for 7 days after application. Before establishment wait to see if any underground plant parts escaped the treatment and produced regrowth. If regrowth occurs repeat treatment may be necessary. Allow sufficient regrowth prior to repeat treatment.

AVOID ALL CONTACT WITH DESIRABLE VEGETATION IN THE VICINITY OF THE RENOVATION OR ESTABLISHMENT AREA.

Tree Planting (Shelterbelts, Nursery Stock, Woody Ornamentals)

This product may be used to control listed annual or perennial weeds for site preparation prior to establishing plantations, or as a post directed spray in established plantations of the following species.

Deciduous

Ash - *Fraxinus* spp.

Caragana - *Caragan* spp.

Cherry - *Prunus* spp.

Elm - *Ulmus* spp.

Lilac - *Syringa* spp.

Maple - *Acer* spp.

Mountain Ash - *Sorbus* spp.

Poplar - *Populus* spp.

Russian Olive - *Elaeagnus* spp.

Willow - *Salix* spp.

Coniferous

Fir - *Abies* spp.

Juniper - *Juniper* spp.

Pine - *Pinus* spp.

Spruce - *Picea* spp.

Yew - *Taxus* spp.

SPRAY MAY CONTACT MATURE BROWN BARK ONLY. Contact with any other part of the plant (foliage, green bark) will cause damage.

DO NOT APPLY UNDER WIND OR OTHER CONDITIONS THAT ALLOW DRIFT.

Mowed weeds should be allowed to reach optimum height before spraying.

Industrial areas, and Rights-of-way areas (railways, pipelines, highway, telephone and power rights-of-way, petroleum tank farms, pumping installations, storage areas, etc.)

(AERIAL RIGHTS-OF-WAY APPLICATION, FOLLOW DIRECTIONS UNDER AERIAL APPLICATION SECTION)

To control or suppress herbaceous weeds, woody brush, and trees as listed on this label.

Repeat treatment may be necessary to control regeneration or new growth.

Recreational and Public Areas (parks, golf courses, schoolyards, airports and other public areas).

To control or suppress herbaceous weeds, woody plants and trees as listed on this label.

Repeat treatment may be necessary to control regeneration or new growth.

APPLICATION EQUIPMENT (and Mixing, Application Instructions).

AERIAL Equipment:

FOLLOW DIRECTIONS UNDER AERIAL APPLICATION AND RESTRICTED USE SECTIONS.

BOOM (Ground Boom) and BOOMLESS Equipment:

Mixing

For field or industrial type sprayers, fill the spray tank with one half the required amount of water. Add the proper amount of GLYPHOSATE TRIMESIUM 480 Herbicide (See Use Rate Table) and mix well before adding the remaining portion of water. Placing the filling hose below the surface of the liquid solution will prevent any excessive foaming. Remove the hose from tank immediately after filling to avoid back siphoning into water source (A one-way valve should be installed to prevent back siphoning). Use of mechanical agitators may cause excessive foaming. By-pass lines should terminate at the bottom of the tank.

Application

Use flat fan nozzles in boom sprayers. To control perennial weeds apply, GLYPHOSATE TRIMESIUM 480 in 50 to 300 L of water per hectare as a broadcast spray. Use no more pressure than 275 kPa.

To control annual weeds as listed, apply GLYPHOSATE TRIMESIUM 480 in 50 L to 100 L of water per hectare as a broadcast spray. Use no more pressure than 275 kPa.

KNAPSACK SPRAYERS HAND HELD & HIGH VOLUME EQUIPMENT

High volume spraying utilizes handguns or other suitable nozzle arrangements to apply a directed spray to weeds. Use coarse sprays only.

Mixing

Mix the proper amount of GLYPHOSATE TRIMESIUM 480 with water in a larger container. Fill the sprayer with the mixed solution.

Unless otherwise stated, make a 1% solution of GLYPHOSATE TRIMESIUM 480 in water (1 L of GLYPHOSATE TRIMESIUM 480 in 100 L of water). A 2% solution (2 L of GLYPHOSATE TRIMESIUM 480 in 100 L of water) should be used on harder to control perennials.

Application

Spray coverage should be uniform and complete. Apply on a spray-to-wet basis. Do not spray to the point of run-off. Hand gun application should be properly directed to avoid spraying desirable plants.

WIPER, WICK AND ROLLER EQUIPMENT

These applicators apply GLYPHOSATE TRIMESIUM 480 solution directly onto the weeds by contacting the weed with an absorbent material containing the herbicide solution. The weeds must be above any desired vegetation to prevent contact with the desired vegetation.

Mixing

Mix the proper amount of GLYPHOSATE TRIMESIUM 480 with water in a larger container. Use this mixed solution in the wiper, wick or roller equipment.

Application

These applicators can be used to control weeds in the following agricultural crops:
apple, cherry, peach, apricot, pear and plum orchards, grape vineyards and cranberries.

The applicator should be adjusted so that the contact point of the wiper, roller or wick is at least 5 cm above the desirable vegetation. Droplets or foam of the GLYPHOSATE TRIMESIUM 480 solution settling on desirable vegetation may result in discolouration, stunting or destruction.

Weeds should be a minimum of 15 cm above the desired vegetation.

Best results may be obtained if two applications are made in opposite directions where possible. Otherwise, best results may be obtained when more of the weed is exposed to GLYPHOSATE TRIMESIUM 480 Herbicide Solution.

Weeds not contacted will not be affected. This may occur in dense clumps, severe infestation, or when the height of the weeds varies so that not all weeds are contacted. In these instances, a repeat treatment may be necessary.

AVOID CONTACT WITH DESIRABLE VEGETATION

Application Notes:

- * Maintain wiper equipment in good operating condition. Care must be taken with all types of wipers to ensure that the absorbent material does not become over saturated, causing the herbicide to drip onto desirable vegetation.
- * Avoid leakage or dripping onto desirable vegetation.
- * Adjust height of wiper applicator to ensure proper contact with weeds.
- * Keep wiping surfaces clean.
- * Maintain recommended roller speed on roller applicators while in use.
- * DO NOT use wiper equipment when weeds are wet.
- * DO NOT operate equipment at ground speeds below 4 and greater than 10 km/h. Weed control may be affected by speed of application equipment. As weed density increases, reduce equipment ground speed to ensure 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 GLYPHOSATE TRIMESIUM 480 Herbicide solution directly to the weed.
- * Mix only the amount of solution to be used during a one day period, as reduced activity may result from use of leftover solution. Thoroughly drain and clean all equipment immediately after use.

USE RATES

Results are best when weeds are actively growing. If weeds have been mowed, allow to return to optimum growth stages.

Delay application until vegetation has emerged to the stages described for control of such vegetation under the Annual and Perennial Weed Control tables of this booklet to provide adequate leaf surface to receive the spray. Un-emerged 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 GLYPHOSATE TRIMESIUM 480 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.

GLYPHOSATE TRIMESIUM 480 may be used with the following surfactants: AGRAL[®] 90, AgSurf[†], FRIGATE[†], COMPANION[†], and ENHANCE[†]. Always refer to surfactant label for specific instructions regarding use of that product.

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

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

ANNUAL WEED CONTROL					
Equipment	Weeds Controlled	Growth Stage	Rate L/ha	Water Volume L/ha	Comments
Boom or Boomless	Wild oats, Green foxtail, Volunteer cereals, Volunteer canola, wild mustard, lady's thumb, stinkweed.	Weeds up to 8 cm in height	0.75	50-100	For wild oats apply at 1-3 leaf stage. Add 350 mL of a surfactant registered for use such as AGRAL 90, AgSurf. For heavy wild oat infestations use 1.0 L/ha rate. Summerfallow use only.
Boom or Boomless	All annual grasses listed above plus foxtail barley* (suppression only) All annual broad leaved weeds listed above plus flixweed** and kochia**	Weeds 8 cm to 15 cm	1.0	50-100	Add 350 mL of surfactant registered for use as listed above. *Apply before initiation of seed-head or senescence of the lower leaves. **Suppression only. Refer to higher rates of this table or tank mix table for control options. Summerfallow use only.
Boom or Boomless	All annual grasses listed above plus downey brome, giant foxtail and Persian darnel All annual broadleaved weeds listed above plus lamb's-quarters, redroot pigweed, hempnettle, flixweed, Russian thistle, volunteer flax, common ragweed*, Canada fleabane*, wild buckwheat**, narrow-leaved hawk's beard***	Weeds up to 15 cm in height	1.25-1.9	50-100	No additional surfactant required. For tankmix weed control see Tank Mix chart. * DO NOT use these rates on plants greater than 8 cm in height. ** For 3-4 leaf stage use 1.9 L/ha rate. *** For weeds 8 cm to 15 cm in height use 1.9 L/ha
	All annual grasses listed above plus crab grass and annual blue grass. All annual broadleaved weeds listed above plus kochia, prickly lettuce, shepherd's purse, annual sow thistle, and narrow-leaved vetch.	Weeds up to 15 cm in height	2.25	50-100	* For additional annual broadleaved weed control options, refer to Tank Mix chart.
	All annual grasses and broadleaved weeds listed above.	Weeds over 15 cm in height	3.5	50-100	* For additional annual broadleaved weed control options, refer to Tank Mix chart.

ANNUAL WEED CONTROL					
Equipment	Weeds Controlled	Growth Stage	Rate L/ha	Water Volume L/ha	Comments
Wipers and Wicks	Green foxtail, wild oats, volunteer barley, volunteer corn, lamb's quarters.	Weeds to be at least 15 cm above desirable vegetation	1 L	2	This mixture is a 33% solution. Contact point for wiper or wick must be at least 5 cm above desirable vegetation. In severe weed infestations, reduce ground speed to ensure adequate control. See Application Equipment section for instructions on wiper and wick application.
Rollers	Green foxtail, wild oats, volunteer barley, volunteer corn, lamb's quarters.	Weeds to be at least 15 cm above desirable vegetation	0.5 to 1.0 L	10	This mixture is a 5-10% solution. Roller speed 50-150 rpm. See Application Equipment section for instructions on roller application.

ANNUAL WEED CONTROL TANK MIXTURES FOR SUMMERFALLOW				
TANK MIXTURES	RATE L/ha	WEEDS CONTROLLED■	WATER ◆ VOLUME L/ha	COMMENTS
GLYPHOSATE TRIMESIMUM 480 + BANVEL†	0.75-1.0 + 0.29	Volunteer cereal, wild oats, green foxtail. Volunteer canola (rapeseed), wild mustard, flixweed*, lamb's quarters, lady's thumb**, stinkweed, kochia, Russian thistle, cow cockle, redroot pigweed**, wild buckwheat**.	50-100	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. *GLYPHOSATE TRIMESIMUM 480 applied at 1.0 L/ha rate only. **Suppression only. See other tank mixtures for control options.
GLYPHOSATE TRIMESIMUM 480 + 2,4-D Amine♣	0.75-1.0 + 1.2	Volunteer cereals, wild oats* and green foxtail*, volunteer canola (rapeseed), wild mustard, flixweed, redroot pigweed, lady's-thumb, stinkweed, kochia. Lamb's quarters**, Russian thistle**.	50-100	Weeds should be less than 15 cm tall and actively growing for best results. Use higher rate if weeds are beyond 8 cm in height. * Use GLYPHOSATE TRIMESIMUM 480 at 1.0 L/ha rate only for wild oat and green foxtail control. **Suppression only. See other tank mixtures for control options.

ANNUAL WEED CONTROL TANK MIXTURES FOR SUMMERFALLOW				
TANK MIXTURES	RATE L/ha	WEEDS CONTROLLED■	WATER ♦ VOLUME L/ha	COMMENTS
GLYPHOSATE TRIMESIUM 480 + PARDNER	0.75-1.0 + 1.25	Volunteer cereals, green foxtail, volunteer canola (rapeseed), wild mustard, lady's thumb, stinkweed, wild buckwheat* redroot pigweed**, kochia**, wild oats**	50 - 100	This tank mix is registered for use in summerfallow, and prior to wheat, barley and oats in minimum tillage systems. Weeds should be less than 15 cm tall and actively growing for best results. Use the higher rate if weeds are beyond 8 cm in height *Use GLYPHOSATE TRIMESIUM 480 at 1.0 L/ha rate only for wild buckwheat control. **1.0 L rate, suppression only. See other tank mixtures for control options.

■ For foxtail barley suppression, refer to "Annual Weed Control" table.

♣ 0.56 kg ai/ha of 2,4-D. Adjust rates accordingly for other 2,4-D formulations.

♦ Add 350 mL/ha of adjuvant.

PERENNIAL WEED CONTROL

Equipment	Weeds Controlled	Growth Stage	Rate L/ha	Water Volume L/ha	Comments
Boom or Boomless	Field Bindweed	full bloom or beyond	7 to 12	100 to 300	Allow 7 days or more after application before tillage.
	Common Milkweed	bud to full bloom for most shoots	12	100 to 300	Spot treatment rate is 120 mL per 5 L water/100 m ² and spray to wet not runoff. Reduced results may occur if sprayed after full bloom. Repeat treatment may be required. Allow 7 days or more after application before tillage.
	Quack Grass Spring Application (no fall tillage)	3 to 4 green leaves (approx. 20 cm high)	2.5	50 to 300	Season long control. At higher water volumes use approved surfactant at 0.5% v/v (0.5 L per 100 L water). Allow 3 days after application before tillage.
	Quack Grass Spring application (Fall-tilled land)	4-5 green leaves (approx. 20 cm high)	2.5	50 to 100	Season long control Apply in spring prior to seeding. Growth stage usually reached 1 to 4 weeks later on land that has been fall-tilled. Reduced control may result on land tilled deeper than 15 cm.

Equipment	Weeds Controlled	Growth Stage	Rate L/ha	Water Volume L/ha	Comments
Boom or Boomless	Quackgrass		2.5	50 to 300	For season long control the following year. Do not till between harvest and application. Allow 5 days or more after application before tillage.
	Fall Application (After harvest)	3-5 green leaves (approx. 20 cm high)	2.5 to 7	50 to 300	LONG TERM CONTROL Reduced control may result if rhizomes have become dormant due to poor sod or land has not been tilled for several years. Treatment after a mild frost is possible if 3-4 leaves are still green and actively growing but not after a heavy frost. Straw should be removed or evenly spread to allow re-growth and adequate spray coverage.
		bud stage or beyond	4.75 to 7	100 to 300	Allow 5 days after application before tillage. Heavy frost prior to application may decrease control.
	Canada Thistle	rosette stage (summer-fallow)	2.5	50 to 100	Ensure proper growth stage by performing last summerfallow tillage between July 5 and August 1st. Allow re-growth for minimum of 5 weeks to reach rosette stage and a minimum of 15 cm in diameter. Allow 10 days after application before tillage. Treatment after mild frost is possible if leaves are still green and actively growing but not after heavy damaging frost.
Boom or Boomless	Wire stemmed muhly, alfalfa, broadleaved plantain, Canada goldenrod, horsetail, mouse-eared chickweed, sheep's sorrel and wild grape.		2.2 to 4.4	100 to 300	Use higher rate for weeds beyond 8 cm in height or in heavy weed infestation. Allow 7 days after application before tillage.
	Common redtop, orchard grass, colt's foot, dandelion, grass leaved stitchwort, Jerusalem artichoke, roundleaved mallow, smooth bedstraw, stork's bill, white clover and wild carrot.		4.4-7.0	100-300	Use higher rate for weeds beyond 8 cm in height or in heavy weed infestation. Allow 7 days after application before tillage.

Equipment	Weeds Controlled	Growth Stage	Rate L/ha	Water Volume L/ha	Comments
Boom or Boomless	Other Perennial Weeds	early heading or early bud stage (See Weeds Controlled Section)	7 to 12	100-300	Use higher rate for weeds beyond 8 cm in height or in heavy weed infestation. Allow 7 days after application before tillage. GLYPHOSATE TRIMESIUM 480 rate is equivalent to 70-120 mL/100 m ²
Boom or Boomless	Control or suppress herbaceous weeds, woody brush, and trees	Actively growing and when foliage is full and well developed	3-6	100-300 for boom 100-350 for boomless	Use higher rate for maple, alder, and Willow*. Spray to wet. See Silviculture section for additional information.
Mist Blower				At least 250	
High Volume or Knapsack			1 to 2 L	100	
Wiper and Wicks	Canada Thistle, milkweed, quackgrass, cottontop	Weeds to be at least 15cm above desirable vegetation	1 L	2	See Application Equipment section for instructions on Wiper and Wick Application.
Rollers	Canada Thistle, milkweed, quackgrass, cottontop	Weeds to be at least 15cm above desirable vegetation	0.5 L to 1.0 L	10	This mixture is a 5-10% solution. See Application Equipment section for instructions on Roller Application. This treatment will only suppress perennial weeds contacted . Roller speed 50-150 rpm.

SILVICULTURE (Woodlot Management: Treatment of 500 ha or less)

(AERIAL SILVICULTURE APPLICATION IS A RESTRICTED USE, FOLLOW DIRECTIONS IN "RESTRICTED USE - WOODLOT MANAGEMENT")

Ground application by mist blower as well as standard boom and boomless sprayers may be used in silviculture.

GENERAL USE PRECAUTIONS

AVOID DRIFT - Drift can cause severe damage or destruction of any vegetation contacted for which treatment is not intended or may cause other unintended consequences. Apply only in wind conditions in compliance with local and/or provincial regulations.

To prevent injury to adjacent vegetation, appropriate buffer zones must be maintained.

Do not apply directly to any body of water populated with fish or used for domestic purposes. Do

not use in areas where adverse impact on domestic water or aquatic species is likely.

In order to reduce the drift hazard to non-target plants and aquatic species when treating silviculture sites do not apply when other climatic conditions including lesser wind velocities which will allow significant drift to occur. Also, when spraying, avoid combinations of pressure and nozzle type that will result in fine particles (mist) which are more likely to drift. Ensure that appropriate buffer zones are maintained.

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

DIRECTIONS FOR USE

When applied as directed, under conditions described, Glyphosate-Trimesium 480 Herbicide controls undesirable vegetation listed on this label.

For Woody Brush, Trees and Other Weeds Controlled, see the Weeds Controlled section of this booklet.

For specific site preparation instructions, see the following Site Preparation section.

Treatments should not be made to trees or brush after fall leaf drop has begun.

SITE PREPARATION

(AERIAL APPLICATION IS A RESTRICTED USE, FOLLOW DIRECTIONS IN “RESTRICTED USE – SITE PREPARATION”)

Use Glyphosate-Trimesium 480 as a broadcast treatment at rates of 3 to 6L per hectare to control woody brush and tree species listed in the Weeds Controlled section of this booklet. Use the 6 L/ha rate for Maple, Alder, and Willow*. Apply when brush species are actively growing and when foliage is full and well-developed. For best results apply in late summer or early fall. Some autumn colouration on undesirable deciduous species is acceptable provided no major leaf fall has occurred. Following site preparation application of Glyphosate-Trimesium 480, any silvicultural species may be planted.

* Suppression only for Willow.

MIST BLOWER EQUIPMENT

Site Preparation and Forest Roadside Vegetation Management

Use Glyphosate-Trimesium 480 Herbicide as a broadcast treatment at rates of 3 to 6 L in at least 200 L of water per hectare to control woody brush and tree species listed in the Weeds Controlled section of this booklet. Use the 6 L/ha rate for maple, alder and Willow*. Apply when brush and tree species are actively growing and when foliage is full and well-developed. For best results apply in late summer or early fall. Some autumn colours on undesirable deciduous species is acceptable provided no major leaf fall has occurred.

* Suppression only for Willow.

AERIAL APPLICATION

Aerial application can only be used in preharvest situations (for sale for use in the prairie provinces only-including Peace River region of B.C.) or industrial rights-of-way and certain woodlot management situations. Refer to information below for further directions, precautions and restrictions.

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

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

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

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.

Use Precautions

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

Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should 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.

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 the 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 manufacturer 1-87-SYNGENTA (1-877-964-3682) or obtain technical advice from the distributor or your provincial agricultural representative.

Use Precautions:

AVOID DRIFT ON TO IMPORTANT WILDLIFE HABITATS. EXTREME CARE MUST BE TAKEN WHEN APPLYING THIS PRODUCT TO PREVENT INJURING DESIRABLE PLANTS AND CROPS.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature, application equipment and sprayer settings.

Do not apply when other climatic conditions, including lesser wind velocities, will allow significant drift to occur.

Coarse sprays are less likely to drift, therefore do not use nozzles or nozzle configurations which disperse spray as fine spray droplets. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure.

Do not overspray or allow drift on to bodies of water, wetlands, and/or wetland vegetation (eg. sloughs, swamps, bogs, marshes, potholes), shelterbelts, woodlots and other cover on the edge of fields, for all aerial application uses outlined in this label.

Do not apply directly to roadside ditches, or apply under conditions that would favour drift into roadside ditches.

A wetland is any land where the water table stands at or above the land surface for at least part of the year, and contains vegetation associated with wetlands such as bulrushes, sedges, cattails, etc.

Ensure uniform application--To avoid streaked, uneven or overlapped application, use appropriate marking devices, or equivalent electronic positioning systems (GPS).

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.

Buffer Zones:

DO NOT apply during periods of dead calm or when winds are gusty.

Aerial application: **DO NOT** apply when average wind speed is greater than 16 km/h (preharvest) or 8 km/h (rights-of-way and site preparation). **DO NOT** apply with spray droplets smaller than the ASAE coarse classification.

Rights-of-way application: The best available application strategies which minimize off-site drift, including meteorological conditions (e.g., wind direction, low wind speed) and spray equipment (e.g., coarse droplet sizes, minimizing height above canopy), should be used.

Do not directly apply to any aquatic habitats that are traversed by the right-of-way.

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), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands), and estuarine/marine habitats.

Use	Method of application	Buffer zone (metres) required for the protection of:	
		Freshwater habitat	Terrestrial habitat
Pre-harvest application on wheat & barley & oats Canola Flax (including low linolenic acid varieties) Lentils Dry beans Soybeans	Aerial-restricted use	25	55
Woodlot Management (less than 500ha)-site preparation	Aerial-restricted use	restricted use - refer to provincial permit*	
Rights-of-way	Aerial	refer to provincial permit*	

* This product is to be used only in the manner authorized; consult local pesticide regulatory authorities about use permits which may be required.

AERIAL APPLICATIONS TO RIGHTS-OF-WAY (railways, pipelines, highway, telephone and power rights-of-way, petroleum tank farms, pumping installations, storage areas, etc.)

Use this product as broadcast treatment at recommended rates, as listed in the 'USE RATES' section, to control herbaceous weeds, woody brush and tree species listed in the 'WEEDS CONTROLLED' section. Use the recommended rates of this herbicide in 20 to 100 L of water per hectare. As density of vegetation increases, spray volume should be increased within the recommended range to ensure complete coverage. For control of herbaceous weeds, apply when most perennial broadleaf weeds have reached the early head or early bud stage of growth. For perennial grasses, apply when most weeds are 20 cm in height. Apply when brush and tree species are actively growing and when foliage is full and well-developed. For best results apply in late summer or early fall. Some autumn colours on undesirable deciduous species are acceptable provided no major leaf fall has occurred.

Following site preparation application of this product, any silviculture species may be planted.

RESTRICTED USE**AERIAL APPLICATION FOR PREHARVEST USE AND WOODLOT MANAGEMENT (LESS THAN 500ha)-SITE PREPARATION**

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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 (patterning) 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 Glyphosate Trimesium 480 Liquid Herbicide aerial application training course provided by Syngenta 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.

Refer to and observe general directions and precautions concerning aerial application, including **Buffer Zone** section.

1. PRE-HARVEST USE ON WHEAT, BARLEY, OATS, FLAX (including low linolenic acid varieties), LENTILS, CANOLA, PEAS, SOYBEANS, DRY BEANS**PREHARVEST AERIAL APPLICATION FOR SALE FOR USE IN THE PRAIRIE PROVINCES ONLY (including PEACE RIVER REGION OF B.C.)****DIRECTIONS FOR USE**

Glyphosate Trimesium 480 Herbicide Liquid 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. Glyphosate Trimesium 480 Herbicide Liquid can be applied prior to

harvest of wheat, barley, oats, canola, 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.

Glyphosate Trimesium 480 Herbicide Liquid should be applied pre-harvest at 2.5 L/ha in 20 - 50 L/ha of clean water with aerial application equipment. Apply only when the crop has 30% or less grain moisture content. This stage typically occurs 7 to 14 days before harvest. Consult the table "Guidelines for Timing of Preharvest Applications" for visual indicators of this stage in each crop. For the best weed control results quackgrass should be actively growing and have at least 4 to 5 green leaves. Canada thistle and perennial sow thistle should be actively growing and at or beyond the bud stage for best results. Common milkweed should be at the bud to bloom stage and actively growing for best results. Applications for weed control (not for harvest management) must be made at the correct stage of both weed and crop growth.

Apply only during the period 7-14 days 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.

GUIDELINES FOR TIMING OF PREHARVEST APPLICATIONS

<u>CROP(S)</u>	<u>(grain moisture is less than 30%)</u>
Wheat	Hard dough stage; thumbnail impression remains on the seed.
Barley	Hard dough stage; thumbnail impression remains on the seed.
Oats	Hard dough stage; thumbnail impression remains on the seed.
Canola	Pods are green to yellow; most seeds are yellow to brown.
Peas	Majority (75%-80%) of pods are brown.
Flax (including low linolenic acid varieties)	Majority (75%-80%) of bolls are brown.
Lentils	Lowermost pods (bottom 15%) are brown and seeds rattle.
Soybeans	Stems are green to brown in colour; pod tissue is dry and brown in appearance; 80-90% leaf drop.
Dry Beans	Stems are green to brown in colour; pods are mature (yellow to brown in colour); 80-90% leaf drop (original leaves).

2. WOODLOT MANAGEMENT

Woodlands Use for Sites 500 ha or less

GENERAL USE PRECAUTIONS

AVOID DRIFT - Drift can cause severe damage or destruction of any vegetation contacted for which treatment is not intended or may cause other unintended consequences. Apply only in wind conditions in compliance with local and/or provincial regulations.

To prevent injury to adjacent vegetation, appropriate buffer zones must be maintained.

Do not apply directly to any body of water populated with fish or used for domestic purposes. Do not use in areas where adverse impact on domestic water or aquatic species is likely.

In order to reduce the drift hazard to non-target plants and aquatic species when treating silviculture sites do not apply when other climatic conditions including lesser wind velocities which will allow significant drift to occur. Also, when spraying, avoid combinations of pressure and nozzle type that will result in fine particles (mist) which are more likely to drift. Ensure that appropriate buffer zones are maintained.

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

DIRECTIONS FOR USE

When applied as directed, under conditions described, Glyphosate-Trimesium 480 Herbicide controls undesirable vegetation listed on this label.

For Woody Brush, Trees and Other Weeds Controlled, see the Weeds Controlled section of this booklet.

For specific site preparation instructions, see the following Site Preparation section.

Treatments should not be made to trees or brush after fall leaf drop has begun.

SITE PREPARATION

Use Glyphosate-Trimesium 480 as a broadcast treatment at rates of 3 to 6L per hectare to control woody brush and tree species listed in the Weeds Controlled section of this booklet. Use the 6 L/ha rate for Maple, Alder, and Willow*. Apply in 20 to 100 L/ha of water per hectare. Apply when brush species are actively growing and when foliage is full and well-developed. For best results apply in late summer or early fall. Some autumn colouration on undesirable deciduous species is acceptable provided no major leaf fall has occurred. Following site preparation application of Glyphosate-Trimesium 480, any silvicultural species may be planted.

* Suppression only for Willow.

Resistance-Management Recommendations

For resistance management, GLYPHOSATE TRIMESIUM 480 Herbicide is a Group 9 herbicide. Any weed population may contain or develop plants naturally resistant to GLYPHOSATE TRIMESIUM 480 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 GLYPHOSATE TRIMESIUM 480 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 company representatives at 1-877-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

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